ABBATTITORI/SURGELATORI DI TEMPERATURA
CELLULES DE REFROIDISSEMENT RAPIDE/CELLULES MIXTES
SCHNELLKÜHLER/SCHOCKFROSTER
BLAST CHILLERS/FREEZERS
ABATIDORES/CONGELADORES RAPIDOS DE TEMPERATURA
AFKOEL/VRIESKAST
ABATEDORES/CONGELADORES RÁPIDOS DA TEMPERATURA
БЫСТРЫЕ ОХЛАДИТЕЛИ/МОРОЗИЛЬНИКИ

MANUALE D'USO E INSTALLAZIONE
MANUEL D'UTILISATION ET D'INSTALLATION
BEDIEN- UND INSTALLATIONSHANDBUCH
USE AND INSTALLATION MANUAL
MANUAL DE USO E INSTALACIÓN
GEBRUIKS- EN INSTALLATIEHANDLEIDING
MANUAL DE USO E INSTALAÇÃO
РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ И УСТАНОВКЕ





Leggere attentamente le avvertenze contenute nel presente libretto in quanto forniscono importanti indicazioni riguardanti la sicurezza, d'uso e di manutenzione.

Conservare con cura questo libretto per ogni ulteriore consultazione dei vari operatori.

Il costruttore si riserva il diritto di apportare modifiche al presente manuale, senza preavviso e responsabilità alcuna.



Lire avec attention les instructions contenues dans ce livret car elles fournissent d'importants renseignements pour ce qui concerne la sécurité, l'emploi et l'entretien.

Garder avec soin ce livret pour des consultations ultérieures de différents opérateurs.

Le constructeur se réserve le droit d'apporter des modifications à ce manuel, sans préavis ni responsabilité d'aucune sorte.



Lesen Sie bitte aufmerksam diese Gebrauchsanweisung durch, die wichtige Informationen bezüglich der Sicherheit, dem Gebrauch und der Instandhaltung enthält.

Heben Sie sorgfältig diese Gebrauchsanweisung auf, damit verschiedene Anwender sie zu Rat ziehen können.

Der Hersteller behält sich das Recht, Änderungen dieser Gebrauchsanweisung ohne Ankündigung und ohne Übernahme der Verantwortung vornehmen zu können.



Carefully read the instructions contained in the handbook. You may find important safety instructions and recommendations for use and maintenance.

Please retain the handbook for future reference.

The Manufacturer is not liable for any changes to this handbook, which may be altered without prior notice.



Lea atentamente las advertencias contenidas en este manual pues dan importantes indicaciones concernientes la seguridad, la utilización y el mantenimiento del aparato.

Rogamos guarde el folleto de instalación y utilización, para eventuales futuros usuarios.

El constructor se reserva el derecho de hacer modificas al actual manual, sín dar algún preaviso y sín responsabilidad alguna.



Nauwkeurig de waarschuwingen in dit boekje lezen, aangezien zij belangrijke aanwijzingen verschaffen wat betreft de veiligheid, het gebruik en het onderhoud.

Dit boekje goed bewaren.

De fabrikant behoudt zich het recht voor om veranderingen in deze handleiding aan te brengen, zonder voorafgaande waarschuwing en zonder enkele aansprakelijkheid.



Leia com atenção as advertências contidas neste manual pois fornecem importantes indicações para a segurança, a utilização e a manutenção do aparelho.

O construtor reserva-se o direito de modificar o manual sem dar aviso prévio e sem nenhuma responsabilidade.



Внимательно читайте предупреждения, содержащиеся в настоящем руководстве, касающиеся надежности использования и обслуживания.

Конструктор сохраняет за собой право вносить изменения в настоящее руководство без предупреждения и любой ответственности.

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Annotate the emergency assistance number of speci	alised maintenance personnel.

#### Annotate the emergency assistance number of specialised maintenance personnel.

Name and Surname	Address	Tel./fax no.

# **GENERAL INSTRUCTIONS ON DELIVERY**

#### **GENERAL WARNINGS**

We assure you have made the best choice in purchasing our products and hope you will be fully satisfied with our their performance. To this purpose, we recommend you strictly comply with the instructions and regulations contained in this handbook..

The user is required to carefully read the manual, always referring to it and conserving it in a known place, accessible to all authorised operators.

The equipment is destined only for the function for which it was designed and, being for professional use, must be used only by qualified personnel.

The manufacturer declines all responsibility and any obligation to warranty if damage occurs to the equipment, persons or things, imputable to incorrect installation, inappropriate use by untrained personnel, non specific modifications or interventions, use of non original or non specific replacement parts, failure to observe, even partially, the indications found in this manual.

Please remember that no reproductions of this handbook are allowed. Due to our constant technological updating and research, the features described in this handbook may be altered without prior notice.

#### LIST OF REGUALATION REFERENCES

The cooling cabinet we manufacture fully complies with the following European and national regulations:

2006/42 (machine regulations) 2006/95 (low-voltage regulation) 2004/108 (EMC regulation) 97/23 (PED regulation) 93/68 (new approach regulation) 2002/95 (RoHS regulation) 2002/96 (RAEE regulation) 658/88 CEE 108/89 CEE

DPR 327/80 art.31 (Italy)

D.M. 15-06-71 (Italy) D.L. n°110 27-01-92 (Italy) J.O. 16-07-74 n°74-163 (France)

and the following European regulations: EN55014-1;EN55104-2 EN61000-3-2; EN61000-3-3 EN60335-1;EN60335-2-89 EN378-I-II

#### TRASPORTATION AND HANDLING

For transportation and handling, all precautions necessary must be taken in order not to damage the equipment, referring to the indications found on the packaging of the same.

Make sure that the consignment has not been tampered with or damaged during transport.

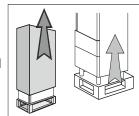
## UNPACKING

5

Installation must be carried out by authorised and specialised personnel.

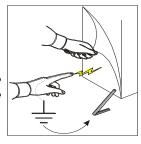
After removing the packaging, ensure the integrity of the equipment and verify that all the parts or components are present and that the characteristics and state correspond to the specifications of the your order.

If not, please inform the retailer immediately.



Remove pvc protective film from all over the appliance.

**Attention:** all the packing material must be disposed of in accordance with the prevailing regulations in the country where the equipment is used and in any case must not be dispersed into the environment.



## **GENERAL SAFETY WARNINGS**

The user is responsible for operations carried out on the equipment which do not comply with the indications in this manual, and periodic training of all personnel authorised to work on the equipment is recommended.

List of some general warnings:

- do not touch the equipment with moist or wet hands or feet
- do not insert screwdrivers or kitchen tools or anything else between the guards and the parts in motion
- before any cleaning or maintenance operation, disconnect the equipment from the electrical mains
- do not pull on the power cord to disconnect the machine from the electrical mains
- during loading/unloading of product in the equipment use kitchen gloves
- use the needle probe to read the temperature at the core of the product, making sure to handle it with care

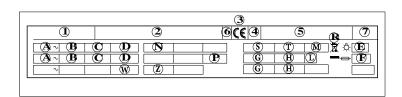


# INSTALLATION

## **PLATE DATA**

Make sure the technical wiring specifications comply with the ratings (i.e., V, kW, Hz, no. phases and mains power).

Please quote the product's serial number (shown on the rating plate) on any enquiry to the Manufacturer.



List of rates shown on the rating plate:

- 1) Model
- 2) Manufacturer's name and address
- 3) CE mark
- 4) Year of make
- 5) Serial number
- 6) Power insulation class
- 7) Electrical device casing protection rating
- A) Input voltage
- B) Electric current intensity
- C) Frequency
- **D)** Rated power
- E) Total lamp power

- F) Fuse current
- G) Coolant type
- H) Coolant q.ty
- L) Temperature grade
- M)Max hydraulic supply pressure
- N) Room temperature
- P) Expanding fluid
- R) WEEE Symbol
- S) Water iniet temperature a
- T) Water consumption
- W) Heating unit power
- Z) Least pressure

### MAX ROOM TEMPERATURE

Air-condenser units should not operate if room temperature is over 38°C. Above 32°C maximum output is not guaranteed.

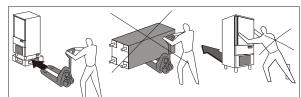
Min. air circulation

Model	Air q.ty [m³/h]
10 kg	1.100
20 kg	3.500
30 kg	4.300
40 kg	9.000

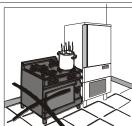
# **POSITIONING**

The appliance must be installed and tested in full compliance with accident-prevention regulations contained in national law and current guidelines. Installers are to comply with any current local regulations.

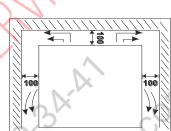
Place the appliance onto the required working site.

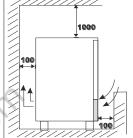


- Avoid locations with exposure to direct sunlight.
- Do not place the appliance in hot, poorly-ventilated rooms.
- Do not place the refrigerated compartment near heat sources.



 Leave a min. 100-mm clearance around the appliance on the sides where air inlet and outlet are located.





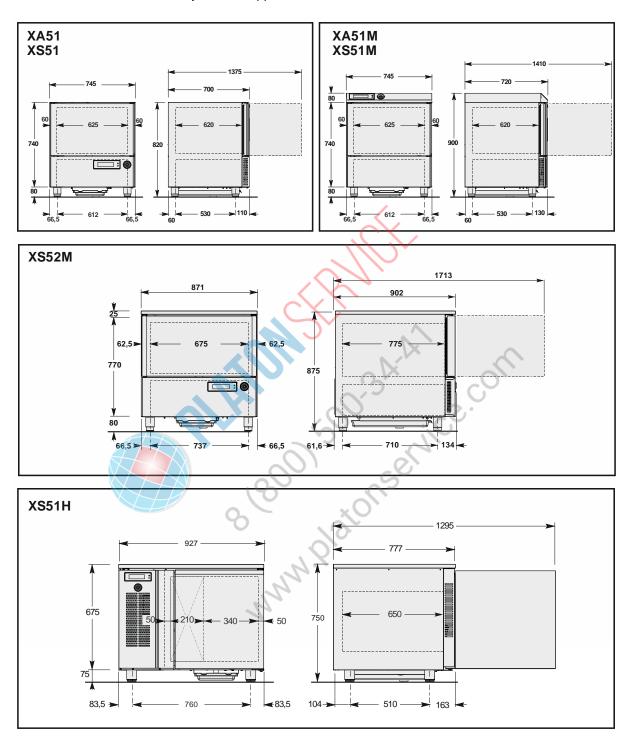
Level the appliance by means of adjustable feet.

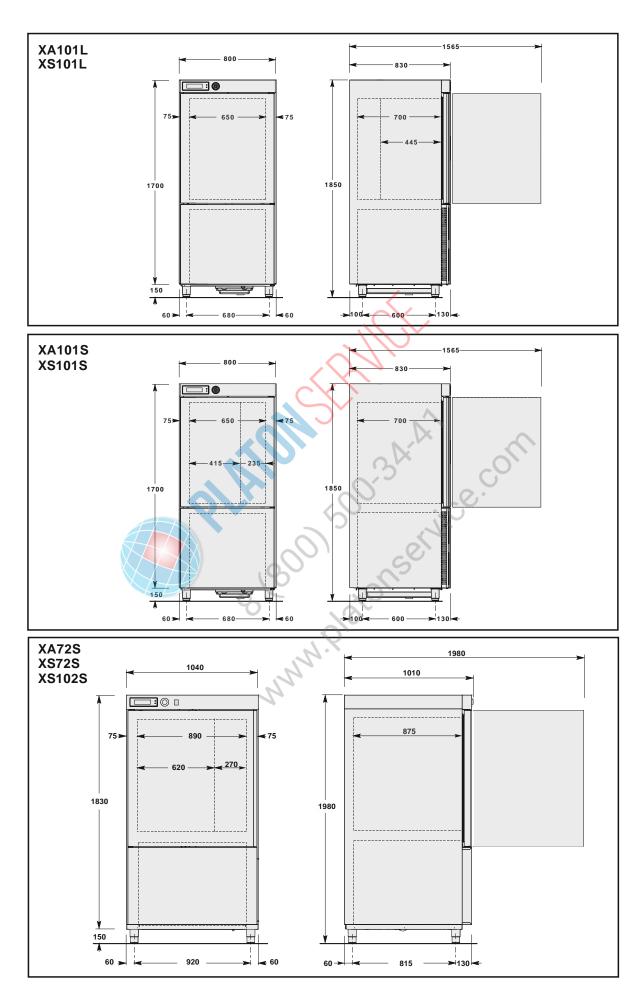


**WARNING:** If the appliance is not properly levelled the performance and condensate drain may be hampered.

# **DIMENSIONS**

Please refer to the dimensions of your own appliance.





# **TECHNICAL DATA**

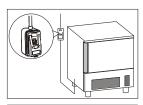
Please refer to the technical data of your own appliance.

Model	XA51-XA51M (10Kg)	XA101L (20Kg L)	XA101S (20Kg S)	XA72S (30Kg S)	
Gross weight	130	225	225	255	
Net weight	120	200	200	235	
Dimensions	745x720x820 745x720x 900	800x830x1850	800x830x1850	1040x1010x1980	
Capacity					
Mass /cycle [kg] (+70°C ÷ +3°C)	18	36	36	60	
Mass /cycle [kg] (+70°C ÷ -18°C)	-	-	-	-	
Internal volume [I]	90	195	195	480	
Rails	GN1/1 600x400	GN1/1 600x400	GN1/1 600x400	GN2/1	
Trays	5	10	10	10	
Power supply					
Voltage [V]	230V 1N~	400V 3N~	400V 3N~	400V 3N~	
Frequency [Hz]	50	50	50 /	50	
Intensity [A]	6	4,5	4,5	7	
Power input [W]	1000	2200	2200	4000	
Refrigerating unit			1111		
Refrigerating power [W]	692	2245	2245	4451	
Evaporation temperature [°C]	-10	-10	-10	-10	
Cooling temperature [°C]	+90÷+3	+90÷+3	+90÷+3	+90÷+3	
Cooling time [min]	90	90	90	90	
Freezing temperature [°C]	-	-cv	-	-	
Freezing time [min]	-		-	-	
Condensation temperature [°C]	+54,5	+54,5	+54,5	+54,5	
Max room temperature [°C]	+32	+32	+32	+32	
Compressor type	Ermetic	Ermetic	Ermetic	Ermetic	
Coolant	R404A/R452A	R404A/R452A	R404A/R452A	R404A/R452A	
Coolant qty [g]	1000	1800	1800	2000	
Condesation air	Air	Air	Air	Air	
Noise [dB] (A)	65	72	72	72	
IFR	1	• /	· ·		
Multi-detector probe	•	. Y	•	10.	

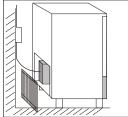
	XS51-XS51M	XS52M	XS51H	XS101L	XS101S	XS72S	XS102S
Model	(10Kg)	(10Kg)	(10Kg)	(20Kg L)	(20Kg S)	(30Kg S)	(40Kg S)
Gross weight	130	160	135	225	225	255	305
Net weight	120	135	120	200	200	235	285
Dimensions	745x720x820	871x906x875	929x777x750	800x830	800x830	1040x1010	1040x1010
Capacity	745x720x 900	4		x1850	x1850	x1980	x1980
Mass /cycle [kg] (+70°C ÷ +3°C)	22	25	16	45	45	70	100
Mass /cycle [kg] (+70°C ÷ -18°C)	13	15	10	27	27	35	50
Internal volume [I]	90	160	90	195	195	480	480
Rails	GN1/1 600x400	GN2/1	GN1/1	GN1/1 600x400	GN1/1 600x400	GN2/1	GN2/1
Trays	5	5	5	10	10	10	10
Power supply							
Voltage [V]	230V 1N~	230V 1N~	230V 1N~	400V 3N~	400V 3N~	400V 3N~	400V 3N~
Frequency [Hz]	50	50	50	50	50	50	50
Intensity [A]	6.9	7,5	6,2	6,5	6,5	9,5	11
Power input [W]	1400	1520	1350	4000	4000	5000	6500
Refrigerating unit							
Refrigerating power [W]	1054	1088	901	3136	3136	2883	5469
Evaporation temperature [°C]	-23,3	-23,3	-23,3	-23,3	-23,3	-23,3	-23,3
Cooling temperature [°C]	+90÷+3	+90÷+3	+90÷+3	+90÷+3	+90÷+3	+90÷+3	+90÷+3
Cooling time [min]	90	90	90	90	90	90	90
Freezing temperature [°C]	+90÷-18	+90÷-18	+90÷-18	+90÷-18	+90÷-18	+90÷-18	+90÷-18
Freezing time [min]	240	240	240	240	240	240	240
Condensation temperature [°C]	+54,5	+54,5	+54,5	+54,5	+54,5	+54,5	+54,5
Max room temperature [°C]	+32	+32	+32	+32	+32	+32	+32
Compressor type	Ermetic	Ermetic	Ermetic	Ermetic	Ermetic	Ermetic	Ermetic
Coolant	R404A/R452A	R404A/R452A	R404A/R452A	R404A/R452A	R404A/R452A	R404A/R452A	R404A/R452A
Coolant qty [g]	1400	1500	1400	2000	2000	2700	4500
Condesation air	Air	Air	Air	Air	Air	Air	Air
Noise [dB] (A)	65	65	65	72	72	72	72
IFR	•	•	•	•	•	•	•
Multi-detector probe	•	•	•	•	•	•	•
•							

#### **WIRING**

An omnipolar switch is to be installed before the appliance, in compliance with the current regulations applied in the country where the appliance is installed.



The electrical connection is carried out from the rear part.

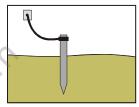


The electrical mains cables must be correctly sized and selected based on the installation conditions.

The 10kg models have 3m of single phase cable (3G 1,5mm²) with a SCHUKO type plug.

The 20-30-40kg models have 3,5m of three-phase cable (5G 2,5mm²) without plug.

The grounding cable is to be directly connected to a good grounding system.



The guarantee will cease and the Manufacturer will not be liable for any damage to appliances or

operators arising from the non-compliance with the and tamperings to any part of the appliance (electric, thermodynamic or hydraulic plant).

### **CONDENSATE DRAIN**

The equipment has a condensation collection tray. The tray is extractable from the lower part of the equipment.

#### **TESTING**

Should the appliance have been transported horizontally instead of a vertical position DO NOT START THE APPLIANCE IMMEDIATELY. WAIT FOR AT LEAST **24 HOURS** BEFORE OPERATING.

The manufacturer declines any responsibility and any warranty obligation if damage occurs to the equipment imputable to transportation in a horizontal position.

Carry out the following checkings:

- 1) Outside temperatures must be included between 15°C and 38°C.
- 2) Turn on the appliance and wait 30 minutes before the use if the external temperature is "low".
- 3) Check power input
- 4) Carry out at least one full quick cooling cycle

#### **CONTROL AND SAFETY SYSTEMS**

The following information concerns skilled staff only.

- Door micro-switch: Prevents the appliance from working when the door is open
- Overall protection fuses: Protect the whole power circuit from and short-circuits and overloads
- Compressor thermal relay: Operates in case of an overload or working failures
- Motor-fan thermal relay: Operates in case of an overload or working failures
- Safety pressure-switch: Operates in case of coolant over-pressure
- Cabinet temperature control: Is run by NTC probe through the relevant electronic card
- Core temperature control: Is run by PT100 probe through an electronic card
- **Electronic boards:** based on the parameters entered they command and control any devices connected to the equipment.

### REFRIGERANT MATERIAL SAFETY DATA SHEET

#### 1) R404a: fluid components

<ul> <li>trifluoroethane</li> </ul>	(HFC 143a)	52%
<ul> <li>pentafluoroethane</li> </ul>	(HFC 125)	44%
<ul> <li>tetrafluoroethane</li> </ul>	(HFC 134a)	4%
GWP = 3750		
ODP = 0		

#### R452A: fluid components

•	pentafluoroethane	(HFC 125)	59%
•	tetrafluoropropene	(HFC 1234yf)	30%
•	difluoromethane	(HFC 32)	11%
G۷	VP = 2141	VV	
OΓ	P = 0	FA I	

#### 2) Hazard identification

Overexposure through inhalation may cause anaesthetic effects. Acute overexposure may cause cardiac rhythm disorders and sudden death. Product mists or sprays may cause ice burns of eyes and skin.

#### 3) First aid procedures

- <u>Inhalation</u>: keep injured person away from exposure, warm and relaxed. Use oxygen, if necessary. Give artificial respiration if respiration has stopped or is about to stop. In case of cardiac arrest give external cardiac massage. Seek immediate medical attention
- Skin: use water to remove ice from affected areas. Remove contaminated clothes.
  - CAUTION: clothes may adhere to skin in case of ice burns.
  - In case of contact with skin, wash with copious quantities of lukewarm water. In case of symptoms (irritation or blisters) seek medical attention.
- <u>Eyes</u>: immediately wash with ocular solution or fresh water, keeping eyelids open for at least 10 minutes.
   Seek medical attention.
- <u>Ingestion</u>: it can cause vomit. If conscious, rinse mouth with water and drink 200-300 ml of water. Seek medical attention
- Other medical treatment: symptomatic treatment and support therapy when indicated. Do not administer
  adrenaline or sympatheticomimetic drugs after exposure, due to the risk of arrhythmia and possible
  cardiac arrest.

#### 4) Environmental data

Persistence and degradation

- HFC 143a: slow decomposition in lower atmosphere (troposphere). Duration in atmosphere is 55 years.
- HFC 125: slow decomposition in lower atmosphere (troposphere). Duration in atmosphere is 40 years.
- *HFC 134a:* relatively rapid decomposition in lower atmosphere (troposphere). Duration in atmosphere is 15.6 years

• *HFC 143a, 125, 134a:* does not affect photochemical smog (not included in volatile organic components – VOC – as established in the UNECE agreement). Does not cause ozone rarefaction.

Product exhausts released in the atmosphere do not cause long-term water contamination.

#### **DISPOSAL**

#### **WASTE STORAGE**

At the end of the product life, avoid release to the environment. The doors should be removed before disposal. Temporary storage of special waste is permitted while waiting for disposal by treatment and/or final collection. Dispose of special waste in accordance with the laws in force with regard to protection of the environment in the country of the user.

#### PROCEDURE FOR ROUGH DISMANTLING THE APPLIANCE

All couintries have different legislation; provision laid down by the laws and the authorised bodies of the countries where the demolition takes place are therefore to be observed. A general rule is to deliver the appliance to specialised collection and demolition centres. Dismantle the refrigerator grouping together the components according to their chemical nature. The compressor contains lubricating oil and refrigerant, which may be recycled. The refrigerator components are considered special waste, which can be assimilated with domestic waste. Make the appliance totally unusable by removing the power cable and any door locking mechanisms in order to avoid the risk of anyone being trapped inside.

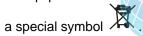
#### DISMANTLING OPERATIONS SHOULD BE CARRIED OUT BY QUALIFIED PERSONNEL.

# THE SAFE DISPOSAL OF WASTE FROM ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE DIRECTIVE 2002/96/EC)

Do not dump pollutant material in the environment. Dispose of it in compliance with the relevant laws.

Under the WEEE (Waste Electrical and Electronic Equipment) Directive 2002/96/EC, when scrapping equipment the user must dispose of it at the specific authorised disposal centres, or reconsign it, still installed, to the original seller on purchase of new equipment.

All equipment which must be disposed of in accordance with the WEEE Directive 2002/96/EC is marked with



The improper disposal of Waste Electrical and Electronic Equipment is liable to punishment under the relevant laws in the countries where the offence is committed.

Waste electrical and Electronic Equipment may contain hazardous substances with potential harmful effects on the environment and human health. You are urged to dispose of them properly.

#### STERILIZATION LAMP INSTALLATION

The sterilization lamp kit is not supplied as standard equipment.

Should you purchase the kit, please follow the installation instructions to install.

## PRINTER INSTALLATION

The printer is not supplied as standard equipment.

Should you purchase the printer, please follow the installation instructions to install.

# **OPERATION**

#### **GENERAL DESCRIPTION**

The blast chiller is a chilling machine capable of cooling the temperature of a freshly cooked product up to +3°C (positive chilling) and up to -18°C (negative chilling), in order to conserve it for a long period of time without altering the organoleptic characteristics.

Machine capacity as to the quantity to be cooled depend on the model purchased.

#### **SETTING UP**

Before setting to operation thoroughly clean the cooling cabinet with a suitable detergent or sodium bycarb dissolved in lukewarm water. Clean the appliance inside to remove any condensate caused by the Manufacturer's final testing.

Cooling and freezing speed depends on the following factors:

- a) container shape, type and material;
- b) whether container lids are used:
- c) foodstuff features (density, water contents, fat contents);
- d) starting temperature;
- e) thermal conduction inside the foodstuffs.

Positive /Negative quick cooling time depends on type of foodstuffs to be processed.

In general the programmes the machine is equipped with are based on the chamber temperature management, the fan speed and the chilling time, in any case never exceed 3.6kg of load (for GN1/1, EN1/1 or 60x40 pans) or 7.2kg of load (for GN2/1, EN2/1 or 60x80 pans) and a thickness of 50mm in negative chilling phase and 80mm in positive chilling phase (table 2).

Check that the positive chilling programme, up to +3°C at the product core, does not take more than 90 minutes and that the negative chilling programme, up to -18°C at the product core, does not take more than 4 hours.

We recommend pre-chilling the work chamber before beginning with a chilling programme and not covering the food during the programme in order not to increase times.

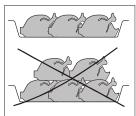
We recommend using the core probe in order to have the exact core temperature reading. Do not stop the cycle before reaching a temperature of +3°C during positive quick cooling and -18°C during negative quick cooling.

Tab.2

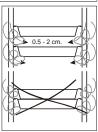
Model	Max. output/cycle		Capacity			h
	+70[°C]÷+3[°C]	+70[°C]÷-18[°C]	n° max	GN	EN	
XS51-XS51M	22[kg]	13[kg]	5	1/1	600X400	40
XS52M	25[kg]	15[kg]	5	2/1	-	-
XS51H	16[kg]	10[kg]	5	1/1	-	-
XS101L - XS101S	45[kg]	27[kg]	10	1/1	600X400	40
XS72S	70[kg]	35[kg]	10	2/1	-	-
XS102S	100[kg]	50[kg]	10	2/1	-	-
XA51-XA51M	18 [kg]	-	5	1/1	600X400	40
XA101L - XA101S	36 [kg]	-	10	1/1	600X400	40
XA72S	60[kg]	-	10	2/1	-	-

#### **MACHINE LOADING**

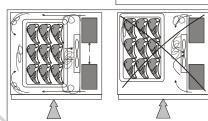
Do not pile up foodstuffs to be cooled. Thickness should be lower than 50mm in negative quick cooling and lower than 80mm in positive quick cooling.



Make sure air circulation is not hampered between food trays.



The grid-holding frame (included in those models which include trolleys) is to be located at the centre of the cabinet.

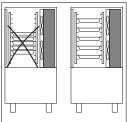


# **POSITION OF TRAYS**

Place the trays as close to the evaporator as possible.

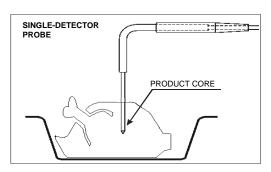


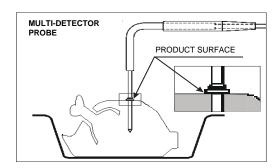
If the cabinet is not full place the trays at equal distance from one another.



#### **CORE PROBE**

For proper position of the probe, refer to the following pictures.





#### **TEMPERATURES**

Do not leave the cooked products that are to be chilled/frozen at room temperature.

Avoid humidity losses, which will be detrimental to the conserved fragrance of the product.

We recommend beginning the chilling/freezing programme as soon as the preparation or cooking phase has ended, being careful to insert the product into the equipment at a temperature no lower than +70°C. The cooked product can enter the equipment even at very high temperatures, greater than +100°C, as long as the chamber has been pre-chilled.

In any case it should be taken into consideration that the programme reference times always start from a temperature of +90°C, in positive chilling from +90°C to +3°C and in negative chilling from +90°C to -18°C.

#### **LENGTH**

Cooled or frozen processed foodstuffs may be stored in a refrigerator for 5 days of processing with no quality alterations.

For best results we recommend keeping temperature constant throughout the storing (0°C to 4°C), according to the various commodities.

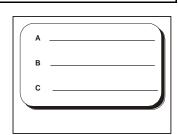
Storing time may be increased to approx. two weeks by using vacuum processing.

After a negative quick cooling cycle, foodstuffs may be stored safely for 3 to 18 months, according to the type of foodstuff processed.

We strongly recommend keeping storing temperature at -20°C or below.

and expiry The cooled product should be wrapped in a specific film for foodstuffs (better still, vacuum stored) and provided with a sticker reporting the content [A], date of processing [B] and expiry date [C] written in permanent type ink.

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# **CONTROL PANEL**

The illustration shows the equipment control panel, while the list indicates the description and functionality of the individual commands.



**A–Display**: Displays all the information relative to the menus on the board and the application in progress.

- **B– HOME button:** In any context, if enabled, this allows the user to return immediately to the main screen. If the button is enabled this is indicated by the corresponding back lighting.
- **C– BACK button:** During navigation this button allows the user to return to the previous level in the menu structure, while when any cycle is in progress, it allows the user to modify the control parameters of the process in progress, temporarily saving the modified values.
- **D– Knob**: The clockwise and anticlockwise turning of the knob allows the user to navigate through the various menus on the display, while pressing it allows access to the selected item.

The RGB LED bar, built into the door handle or on the dashboard, takes on a different colour depending on the process in progress:

- Stand-by: low intensity steady light blue light
- <u>Chilling/freezing cycle (including infinity, Multy) Defrost and Cooling, in progress</u>: high intensity flashing light blue light
- Conservation in progress: high intensity steady light blue light
- Sanitising in progress: low intensity steady red light
- Fault: steady yellow light

# **FIRST START-UP**

At the first start-up the operator will be asked to choose the language and the sector.

#### LANGUAGE SETTING

- 1. Select LANGUAGE by rotating the knob
- **2.** Press the knob to confirm the selected language

The language can also be changed later (see page 42)



#### **SECTOR SETTING**

- Select the SECTOR by rotating the knob
- 2. Press the knob to confirm the selected sector

The sector can also be changed later (see page 44)



# **PROGRAMME**

## PROGRAMME DESCRIPTIONS

PROGRAMME	DESCRIPTION			
	STANDARD PROGRAMMES			
SOFT +3°C	Cycle carried out through probe at the core or time, suitable for chilling foods up to +3°C, using a chamber temperature of about 1°C.  Cycle suitable for delicate products such as mousse, creams, desserts, vegetables or foods that are not very thick			
HARD +3°C	Cycle carried out through probe at the core or time, suitable for chilling foods up to +3°C, using a chamber temperature varying from -15°C to 1°C.  Cycle suitable for very dense products, with high grease content or large sized products			
IFR	I.F.R. is the patented positive blast chilling system that automatically optimises the process for any type of food, no matter the size and quantity, chilling its surface thanks to the use of a multipoint, three sensor needle probe			
SOFT -18°C (models TF only)	Cycle carried out through probe at the core or time, suitable for freezing foods up to -18°C, using a chamber temperature varying from 1°C to -40°C.  Cycle suitable for leavened products, baked or cooked foods that are not very thick			
HARD -18°C (models TF only)	Cycle carried out through probe at the core or time, suitable for freezing foods up to -18°C, using a chamber temperature that can reach -40°C.  Cycle suitable for raw or cooked, large size foods			
INFINITY	Time chilling/freezing cycle with infinite duration, suitable for cooling various type food pans. The temperature at the core can be checked			
	AUTOMATIC PROGRAMMES +3°C - CATERING			
LASAGNE	Cycle dedicated to chilling of lasagne			
SOUPS AND SAUCES	Cycle dedicated to chilling of soups and sauces			
RICE AND PASTA	Cycle dedicated to chilling of rice and pasta			
MEAT	Cycle dedicated to chilling of meat			
FISH	Cycle dedicated to chilling of fish			
COOKED VEGETABLES	Cycle dedicated to chilling of cooked vegetables			
HOT PASTRY	Cycle dedicated to chilling of hot pastry products			
DRY PASTRY	Cycle dedicated to chilling of dry pastry products			
WALNUTS VEAL	Cycle dedicated to chilling of walnuts veal			
A	UTOMATIC PROGRAMMES -18°C - CATERING (models TF only)			
LASAGNE	Cycle dedicated to freezing of lasagne			
SOUPS AND SAUCES	Cycle dedicated to freezing of soups and sauces			
RICE AND PASTA	Cycle dedicated to freezing of rice and pasta			
MEAT	Cycle dedicated to freezing of meat			
FISH	Cycle dedicated to freezing of fish			
COOKED VEGETABLES	Cycle dedicated to freezing of cooked vegetables			
RAW VEGETABLES	Cycle dedicated to freezing of raw vegetables			
PASTRY	Cycle dedicated to freezing of pastry products			
RAW FISH	Cycle dedicated to freezing of raw fish			
SUSHI	Cycle dedicated to freezing of Sushi			
ANISAKIS 24h*	It is a special blast freezing cycle that enables preventive and total food preservation and restoration. Once the probe reads -20°C at the food core, the appliance will automatically start the "devitalization phase for 24 hours"			
ANISAKIS 15h*	it is a special blast freezing cycle that enables preventive and total food preservation and restoration. Once the probe reads -35°C at the food core, the appliance will automatically start the "devitalization phase for 15 hours"			
OPISTORKIS 24h	It is a special blast freezing cycle that enables preventive and total food preservation and			

<sup>\*</sup> **Tested and validated in cooperation with:** University of Naples Federico II - Department of Zootechnical Sciences and Food inspection and the University Research laboratory at the wholesale fish market of Pozzuoli, Naples

	AUTOMATIC PROGRAMMES +3°C - PASTRY SHOP				
DOUGH SHEETING	Cycle dedicated to chilling of sheet dough				
MIXING IN DIE	Cycle dedicated to chilling of moulded dough				
CREAM	Cycle dedicated to chilling of creams				
LEAVENED	Cycle dedicated to chilling of leavened products				
LEAVENED +10°C	Cycle dedicated to chilling of leavened products +10°C				
SHORT PASTRY	Cycle dedicated to chilling of shortcrust dough				
STUFFED PRODUCTS	Cycle dedicated to chilling of filled products				
TARTS	Cycle dedicated to chilling of tarts				
BRIOCHE	Cycle dedicated to chilling of brioche				
PANNA COTTA	Cycle dedicated to chilling of panna cotta				
YOGURT BOX	Cycle dedicated to preparing of yogurt				
AUT	TOMATIC PROGRAMMES -18°C - PASTRY SHOP (models TF only)				
DOUGH SHEETING	Cycle dedicated to freezing of sheet dough				
MIXING IN DIE	Cycle dedicated to freezing of moulded dough				
TARTS	Cycle dedicated to freezing of tarts				
MOUSSE	Cycle dedicated to freezing of mousse				
CROISSANT	Cycle dedicated to freezing of croissants				
ICE CREAM	Cycle dedicated to freezing of ice cream				
	AUTOMATIC PROGRAMMES +3°C - BAKERY				
TARTS	Cycle dedicated to chilling of tarts				
BAKED BREAD	Cycle dedicated to chilling of baked bread				
CREAM	Cycle dedicated to chilling of creams				
LEAVENED	Cycle dedicated to chilling of leavened products				
,	AUTOMATIC PROGRAMMES -18°C - BAKERY (models TF only)				
COOKED TARTS	Cycle dedicated to freezing of baked tarts				
RAW TARTS	Cycle dedicated to freezing of unbaked tarts				
BAKED BREAD	Cycle dedicated to freezing of baked bread				
UNCOOKED BREAD	Cycle dedicated to freezing of unbaked bread				
	AUTOMATIC PROGRAMMES +3 - ICE CREAM PARLOUR				
PANNA COTTA	Cycle dedicated to chilling of panna cotta				
YOGURT BOX	Cycle dedicated to preparing of yogurt				
AUTOM	ATIC PROGRAMMES -18°C - ICE CREAM PARLOUR (models TF only)				
ICE CREAM -14°C	Cycle dedicated to freezing of ice cream -14°C				
ICE CREAM	Cycle dedicated to freezing of ice cream				
COMPLETE MOUSSE	Cycle dedicated to freezing of complete mousse				
MOUSSE	Cycle dedicated to freezing of mousse				
FROZEN DESSERT	Cycle dedicated to freezing of frozen dessert				
	MULTY PROGRAMME				
MULTY	Time chilling/freezing cycle, organised by load levels, with possibility of needle probe				
	reading, providing the time for each level				
DANGUETING	BANQUETING PROGRAMME				
BANQUETING	Cycle dedicated to the catering sector, excellent for preparation of banqueting products				
	VACUUM PROGRAMME				
VACUUM	Cycle dedicated to the catering sector for preparation of products before a vacuum-packing phase				
	SMART ON PROGRAMME				
	Cycle with automatic start.				
OMART ON	Once a hot product is inserted if an increase in the chamber temperature is detected, after				
SMART ON	5 minutes a Soft +3°C cycle will start, either by probe or time, based on whether or not the				
	needle is used.				

#### STANDARD PROGRAMMES

Chilling/freezing cycles pre-set by the manufacturer which can be activated by selecting them directly from the initial screen, SOFT +3°C, HARD +3°C, SOFT -18°C\* and HARD -18°C\* (\*models TF only). During execution of the cycle the parameters can be viewed and modified temporarily. The new values will be valid exclusively for the cycle in progress.

HARD +3°C

 Select the desired cycle by rotating the knob



公



**2.** Press the knob to activate the selected cycle

During the cycle it is possible:

- to view and modify the default parameters by selecting SET (see page 35)
- to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress



**3.** Cycle ended, automatic conservation phase

During conservation it is possible:

- to view and modify the default parameters by selecting SET (see page 35)
- to activate a manual defrost by selecting
- to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress.

If not required, manual defrosting is not performed



#### PROGRAMME I.F.R.

The IFR is an innovative patented system of positive quick cooling which allows the cycle optimisation for each type of foodstuffs by preventing superficial freezing. Temperatures are detected by a three-sensor multipoint needle probe. The position



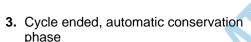
inside the foodstuff is determined univocally by a reference disk located along the needle. (ref. par. "Core probe").

- 1. Select the desired cycle by rotating the knob
- 2. Press the knob to activate the selected

During the cycle it is possible:

- select SET to change the fan speed
- to stop the cycle by selecting STOP

Note: the modified value will only be saved for the cycle in progress



During conservation it is possible:

- to view and modify the default parameters by selecting SET (see page 35)
- to activate a manual defrost by selecting
  to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress. If not required, manual defrosting is not performed









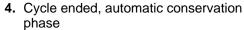




#### PROGRAMME INFINITY

Time chilling/freezing cycle with infinite duration, suitable for cooling various type food pans. The temperature at the core can be checked.

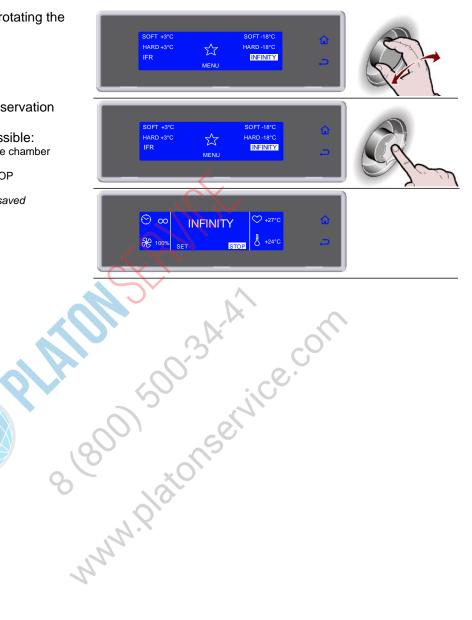
 Select the desired cycle by rotating the knob



During conservation it is possible:

- select SET to view and modify the chamber temperature and fan speed
- to stop the cycle by selecting STOP

Note: the modified values will be saved



#### **FAVOURITE PROGRAMMES**

A library consisting in 10 cycles selected from those stored and labelled as favourites 💢 (see page 28)

- 1. Select by rotating the knob
- 2. Press the knob to enter section FAVOURITE PROGRAMMES
- Select the desired cycle by rotating the knob
- **4.** Press the knob to activate the selected cycle

During the cycle it is possible:

- to view and modify the default parameters by selecting SET (see page 36)
- to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress

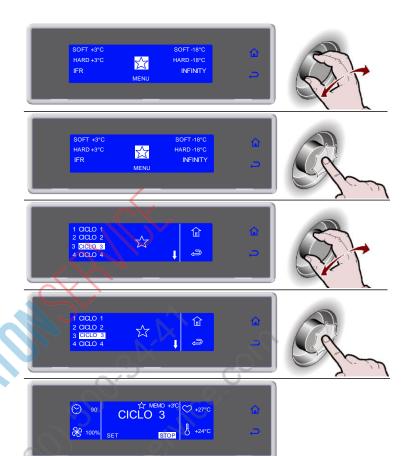


During conservation it is possible:

- to view and modify the default parameters by selecting SET (see page 35)
- to activate a manual defrost by selecting
- to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress.

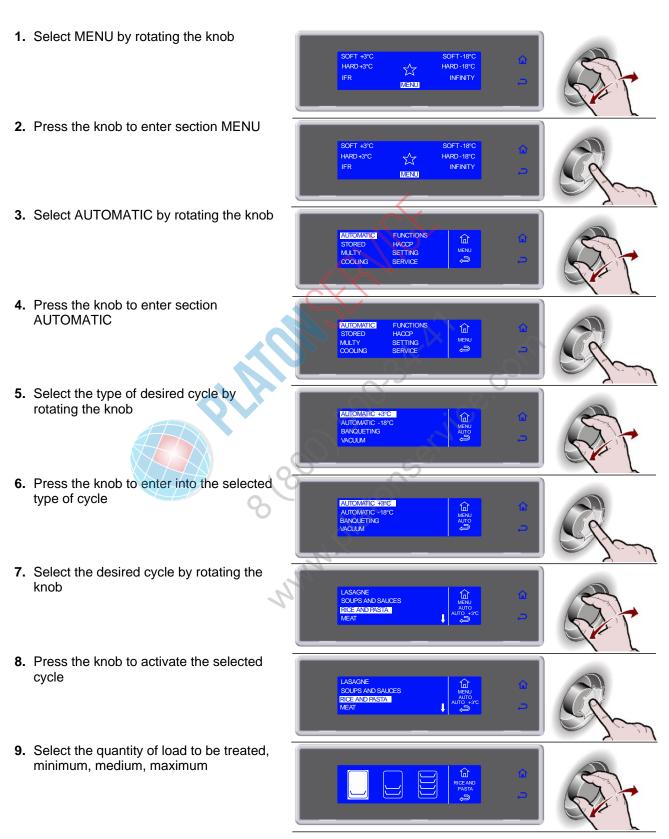
If not required, manual defrosting is not performed





#### **AUTOMATIC PROGRAMMES**

These programmes are manufacturer recommended work cycles. During the cycle the parameters can be viewed, but not modified.



# **10.**Press the knob to activate the selected cycle

During the cycle it is possible:

- to view the default parameters by selecting INFO
- to stop the cycle by selecting STOP

Note: the parameters cannot be modified



# **12.**Cycle ended, automatic conservation phase

During conservation it is possible:

- to view the default parameters by selecting INFO
- to activate a manual defrost by selecting
- to stop the cycle by selecting STOP

Note: the parameters cannot be modified. If not required, manual defrosting is not performed



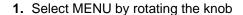
#### STORED PROGRAMMES

These are 10 chilling cycles and 10 freezing cycles that can be configured based on the needs of the user, the names of which can be freely set.

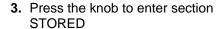
These cycles already have default settings set up by the manufacturer: once modified by the user the new values can be saved in the memory and recalled at a subsequent start of that cycle.

CICLO 3

10 of these programmes can be made FAVOURITES, organising them based on the needs of the user.



2. Press the knob to enter section MENU



- **4.** Press the knob to enter section STORED
- Select the type of desired cycle by rotating the knob
- **6.** Press the knob to enter into the selected type of cycle
- Select the desired cycle by rotating the knob
- **8.** Press the knob to activate the selected cycle

During the cycle it is possible:

- View, modify the default parameters and make it a favourite by selecting SET
- to stop the cycle by selecting STOP

Note: the modified parameters can be saved once

the new value is inserted by selecting  $^{igotimes 0}$  ,

therwise, by selecting , he modifications will be active only for the cycle in progress. If the modifications are saved the user will be



asked to assign a name to the cycle. use the knob

to enter the name and press o save it.



To make a cycle a favourite, select MAKE FAVOURITE, found at the end of the parameters list, and enter the desired position. The cycle will automatically overwrite the one in that position.

Save by selecting .



#### 9. Cycle ended, automatic conservation phase

During conservation it is possible:

- View, modify the default parameters and make it a favourite by selecting SET
- to activate a manual defrost by selectingto stop the cycle by selecting STOP



Note: the modified parameters can be saved once

the new value is inserted by selecting



therwise, by selecting , he modifications will be active only for the cycle in progress. If the modifications are saved the user will be asked to assign a name to the cycle. use the knob

to enter the name and press o save it.



If not required, manual defrosting is not performed







#### **MULTY**

Chilling/freezing cycle **by time** organised by load levels. The number of levels available varies depending on the equipment.

1. Select MENU by rotating the knob





2. Press the knob to enter section MENU





3. Select MULTY by rotating the knob





4. Press the knob to enter section MULTY





5. Enter the time for each level and confirm it with the knob

During the cycle it is possible:

- to view and modify the default parameters by selecting SET (see page 35)
- to stop the cycle by selecting <=

Note: the modified parameters will be saved

At the expiry of the set value for each individual level, the buzzer and the flashing value alert the user that the product can be withdrawn.

Once all the set times have expired, automatic conservation phase

During conservation it is possible:

- to view and modify the default parameters by selecting SET (see page 35)

Note: the modified parameters will be saved



#### **COOLING**

It is advisable to run a cooling cycle prior to selecting any slaughter cycle.

- 1. Select MENU by rotating the knob
- 2. Press the knob to enter section MENU
- 3. Select COOLING by rotating the knob
- **4.** Press the knob to activate the selected cycle

During the cycle it is possible:

- to view and modify the default parameters by selecting SET (see page 35)
- to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress

**5.** Cycle ended, automatic conservation phase

During conservation it is possible:

- to view and modify the default parameters by selecting SET (see page 35)
- to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress



## **FUNCTIONS**

#### **DEFROST**

If not required, the function will not be activated and the display will alternate between showing the defrosting symbol will alternate between showing the defrosting and the message "NOT REQUIRED", accompanied by the sound of the buzzer.

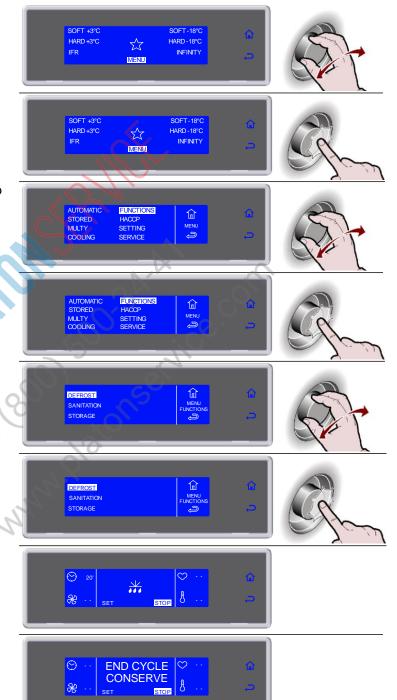
- 1. Select MENU by rotating the knob
- 2. Press the knob to enter section MENU
- 3. Select FUNCTIONS by rotating the knob
- **4.** Press the knob to enter section FUNCTIONS
- 5. Select DEFROST by rotating the knob
- **6.** Press the knob to activate the selected cycle

During the cycle it is possible

- to view and modify the default parameters by selecting SET (see page 35)
- to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress

7. Cycle ended



#### **SANITATION**



**NOTA:** the germicidal lamp kit is not supplied as standard equipment. It is an optional item. Should you purchase the kit, please follow the maintenance instructions to maintenance.

1. Select MENU by rotating the knob





2. Press the knob to enter section MENU





**3.** Select FUNCTIONS by rotating the knob





**4.** Press the knob to enter section FUNCTIONS





5. Select SANITATION by rotating the knob





**6.** Press the knob to activate the selected cycle

During the cycle it is possible:

- to view and modify the time of sanitation by selecting SET (see page 35)
- to stop the cycle by selecting STOP

Note: the modified parameters will be saved only for the cycle in progress





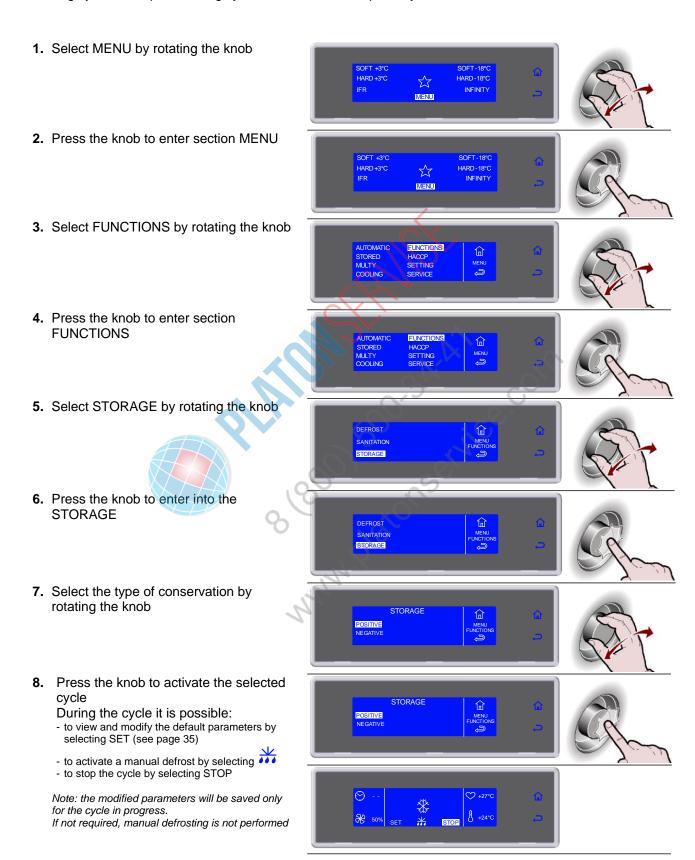




7. Cycle ended

#### **STORAGE**

Storing cycles and quick cooling cycles can be started separately.

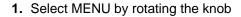


## \*\* VIEW / EDIT PARAMETERS CYCLE

1. During the cycle, select SET by rotating the knob HARD +3°C 2. Press the knob to enter the parameters list HARD +3°C 3. Select the parameter to be modified by rotating the knob END CYCLE NEEDLE HARD PHASE AIR 30°C 45 ↓ = □ 4. Press the knob to modify the value END CYCLE NEEDLE HARD PHASE AIR 45 45 5. Select the new value, by rotating the knob END CYCLE NEEDLE HARD PHASE AIR 40° ↓ →2] 6. Press the knob to confirm the new value END CYCLE NEEDLE HARD PHASE AIR 7. Press to exit the parameters list

> END CYCLE NEEDLE HARD PHASE AIR

# **HACCP**







2. Press the knob to enter section MENU





3. Select HACCP by rotating the knob





4. Press the knob to enter section HACCP





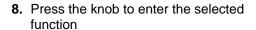
**5.** Select the chosen function by rotating the knob

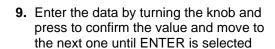




## **VIEW BY DATE**

- **6.** Press the knob to enter the selected function
- 7. Select the chosen function by rotating the knob



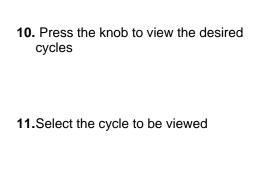


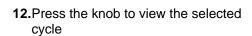




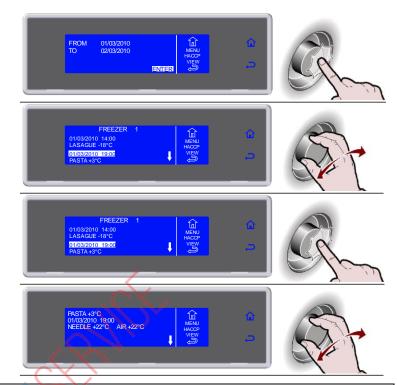






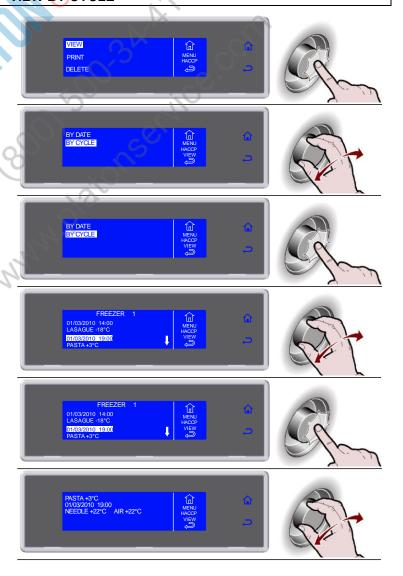






### VIEW BY CYCLE

- **6.** Press the knob to enter the selected function
- 7. Select the chosen function by rotating the knob
- **8.** Press the knob to enter the selected function
- 9. Select the cycle to be viewed
- **10.**Press the knob to view the selected cycle
- 11. The parameters list is displayed



#### **PRINT BY DATE**

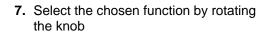
**NOTE:** the printer is not supplied as standard equipment. It is an optional item. Connect the printer from the rear of the unit, using the MATE-N-LOK connectors on the electrical panel, identified with the letters **R** (power) and **S** (signal).



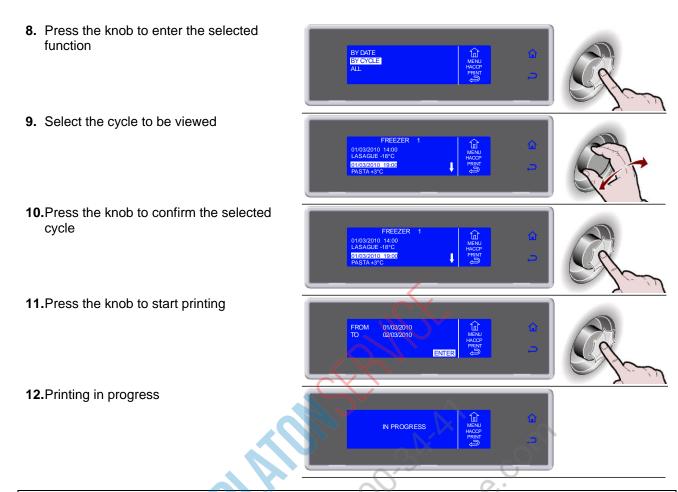
### PRINT BY CYCLE

**NOTE:** the printer is not supplied as standard equipment. It is an optional item. Connect the printer from the rear of the unit, using the MATE-N-LOK connectors on the electrical panel, identified with the letters **R** (power) and **S** (signal).

**6.** Press the knob to enter the selected function

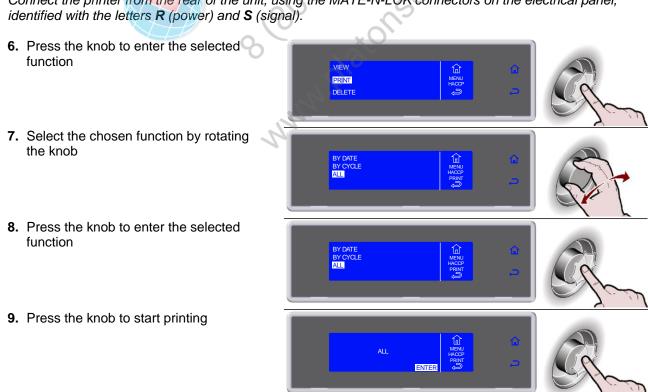






#### PRINT ALL

**NOTE:** the printer is not supplied as standard equipment. It is an optional item. Connect the printer from the rear of the unit, using the MATE-N-LOK connectors on the electrical panel, identified with the letters **R** (power) and **S** (signal).

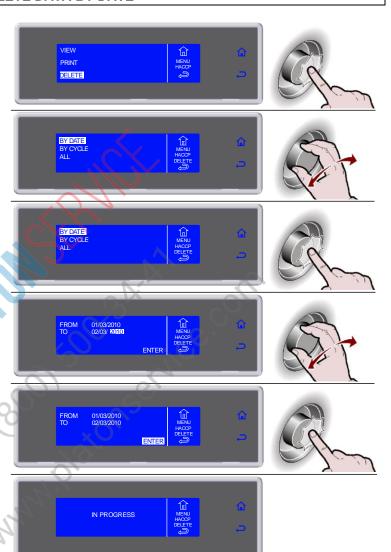


### 10. Printing in progress



#### **DELETE DATA BY DATE**

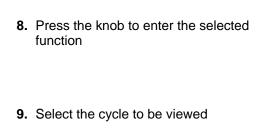
- **6.** Press the knob to enter the selected function
- **7.** Select the chosen function by rotating the knob
- **8.** Press the knob to enter the selected function
- 9. Enter the data by turning the knob and press to confirm the value and move to the next one until ENTER is selected
- 10. Press the knob to start the procedure
- 11. Data deletion in progress

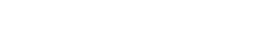


#### **DELETE DATA BY CYCLE**

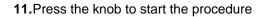
- **6.** Press the knob to enter the selected function
- **7.** Select the chosen function by rotating the knob

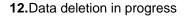






10. Press the knob to confirm the selected



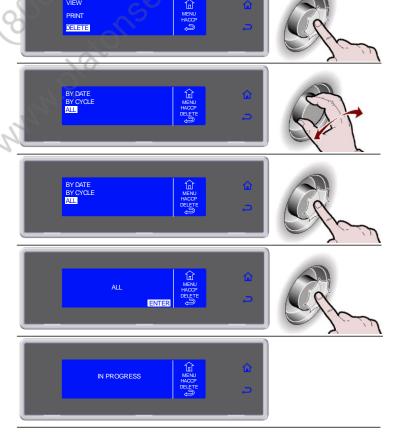


cycle



### **DELETE ALL**

- **6.** Press the knob to enter the selected function
- **7.** Select the chosen function by rotating the knob
- **8.** Press the knob to enter the selected function
- 9. Press the knob to start the procedure
- 10. Data deletion in progress



# **SETTINGS**

### **LANGUAGE**

1. Select MENU by rotating the knob





2. Press the knob to enter section MENU





3. Select SETTING by rotating the knob





**4.** Press the knob to enter section SETTING





5. Select LANGUAGE by rotating the knob







7. Select LANGUAGE by rotating the knob





**8.** Press the knob to confirm the selected language







**SET DATE/CLOCK** 1. Select MENU by rotating the knob 2. Press the knob to enter section MENU 3. Select SETTING by rotating the knob MENU 4. Press the knob to enter section **SETTING** SETTING SERVICE 5. Select DATA/CLOCK by rotating the knob MENU SETS SET DATE/CLOCK MULTY CYCLE CONTROL **6.** Press the knob to enter section DATA/CLOCK 鼠 7. Select the new value by rotating the knob 8. Press the knob to confirm the new value and move to the next one 9. Select to confirm and exit from the function

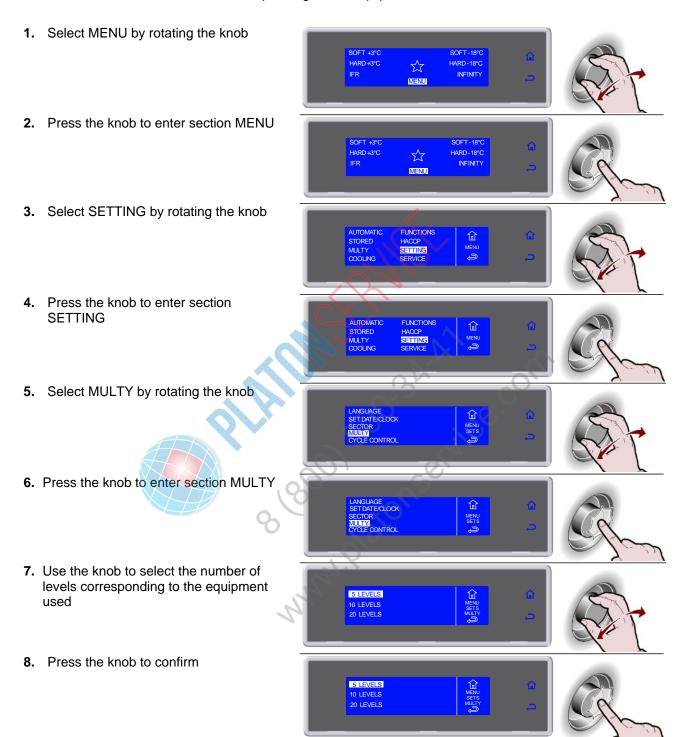
### **SECTOR**

- 1. Select MENU by rotating the knob
- 2. Press the knob to enter section MENU
- 3. Select SETTING by rotating the knob
- **4.** Press the knob to enter section SETTING
- 5. Select SECTOR by rotating the knob
- **6.** Press the knob to enter section SECTOR
- **7.** Press the knob to confirm the selected sector
- 8. Press the knob to confirm



### **MULTY**

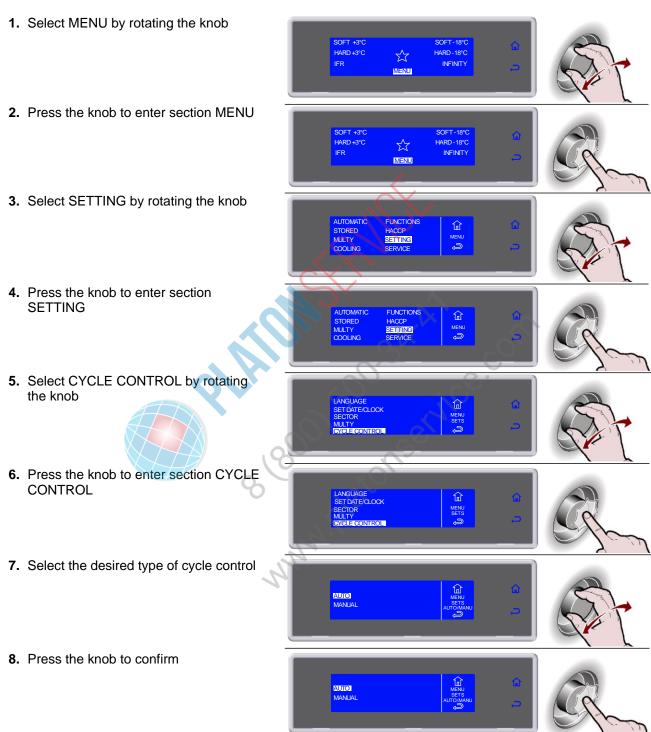
The number of levels available varies depending on the equipment.



### **CYCLE CONTROL - AUTO OR MANUAL**

You can choose to control the cycle in automatic mode (AUTO) or by means of operator choice, timed or using the probe in the core (MANUAL).

The default cycle control setting is automatic mode (AUTO).



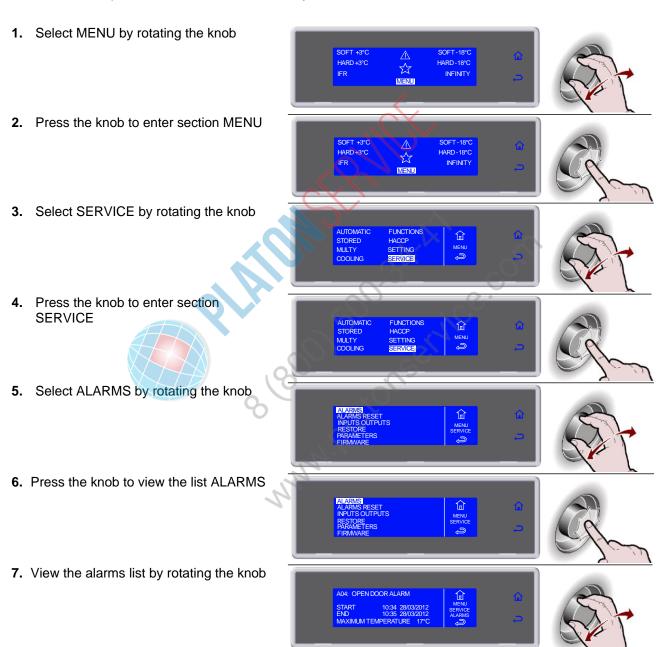
# **SERVICE**

### **ALARMS**

The presence of an active alarm is signalled by the buzzer and the display shows the event alternating with the screen showing the process in progress. The RGB bar turns yellow. The alarms are recorded on a list.

The presence of an alarm stored on the list is indicated by the symbol .

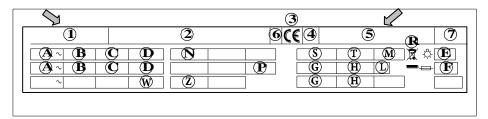
You can record up to a maximum of 42 alarms. Any additional event overwrites the oldest one.



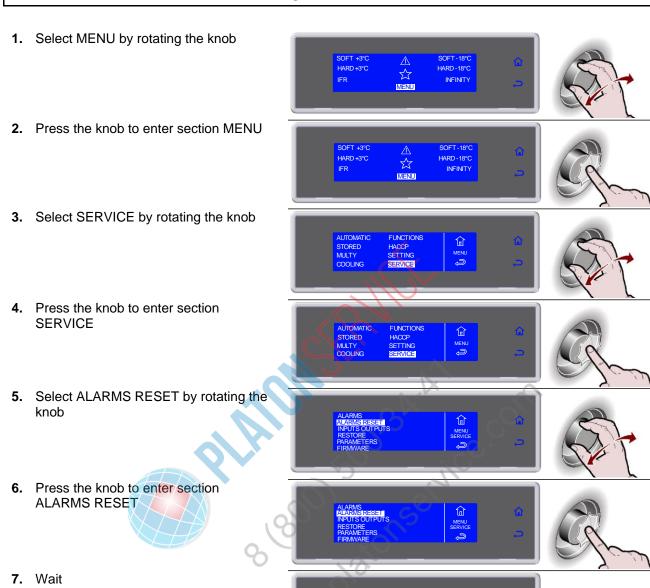
# **ALARMS TABLE**

FAULT	CAUSE	REMEDY				
	No power supply	Check the connection to the power mains				
The display board does not switch on	Blown fuse	Replace fuses (qualified technician)				
switch on	Loosened connections	Check connection fitting				
	High and Low-pressure pressureswitch on	Qualified technician required				
Communication failure	Clicker on	Qualified technician required				
Compressor failure	Contactor failure	Qualified technician required				
	Compressor thermal relay on	Qualified technician required				
The compressor is working	Frosted evaporator	Open the door and carry out the defrost cycle				
but the cabinet is not	No coolant inside the refrigerating system	Qualified technician required Qualified technician required				
cooling	Delivery solenoid valve failure					
	Condenser dirty	Clean the condenser				
Evaporator fans are not	Fan failure or short-circuit	Qualified technician required				
working	Door micro failure	Qualified technician required				
	Faulty pressure switch	Qualified technician required				
The condenser fans do not	Faulty fan	Qualified technician required				
work	Faulty pick-up condenser	Qualified technician required				
	Lack of consent from compressor solenoid switch	Qualified technician required				
Lack of evaporator defrosting	Incorrect defrosting programming	Check the defrosting cycle programming				
ALARM/ EVENT	CAUSE	REMEDY				
High temperature alarm (in conservation)	Room Temp above set value	If the temperature is not within the specified range, apply to a qualified technician				
Low temperature alarm	Room Temp below set value	If the temperature is not within the specified range,				
(in conservation)	Toom Temp below Set value	apply to a qualified technician				
Limit temperature alarm	Cell or core temperature higher than the set value	If the temperature is not within the specified range,				
(in chilling/freezing)	·	apply to a qualified technician  Qualified technician required				
Room probe alarm Evaporator probe alarm	Room Probe interrupted  Evap Probe interrupted					
Condenser probe alarm	Cond Probe interrupted	Qualified technician required  Qualified technician required				
Dirty condenser alarm	Condenser dirty	Clean the condenser				
Point needle probe alarm	Needle Probe interrupted	Qualified technician required				
Underskin needle probe alarm	Sub-dermis needle probe interrupted	Qualified technician required				
External needle probe alarm	External needle probe interrupted	Qualified technician required				
Electr.box probe alarm	Electrical panel probe interrupted	Qualified technician required				
Electr.box overtemp. alarm	Electrical panel temperature higher than the set value	Qualified technician required				
•	QC room door open	Close the door				
Open door alarm	Door micro faulty	Qualified technician required				
BlackOut alarm	No power supply	When power is restored, check the max. temperature reached inside the room				
High pressure alarm	Intervention by high pressure switch	Qualified technician required				
Low pressure alarm	Intervention by low pressure switch	Qualified technician required				
Compressor overload alarm	Compressor thermal relay on	Qualified technician required				
Mother board communication	Communication between the panel board and the	Qualified technician required				
alarm	display board interrupted	'				
Mother board EEPROM alarm	Data memory corrupted	Qualified technician required				
Panel board EEPROM alarm	Data memory corrupted	Qualified technician required				
Needle probe 1 alarm	Needle Probe 1 interrupted	Qualified technician required				
Needle probe 2 alarm	Needle Probe 2 interrupted	Qualified technician required				

If the fault is not corrected by following the above instructions ask for skilled assistance and avoid carrying out any other operations, especially on the electricals. When informing the servicing company of the fault, state 1 and 5 numbers (model and serial number).

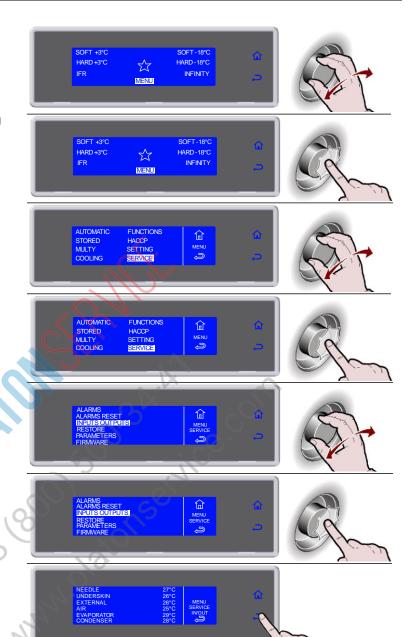


# **RESET ALLARMI**



# **INPUTS OUTPUTS**

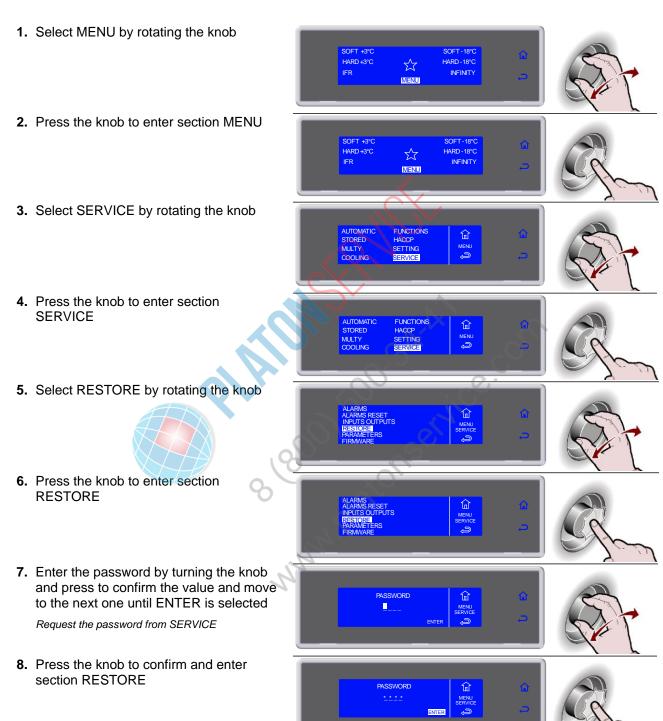
- 1. Select MENU by rotating the knob
- 2. Press the knob to enter section MENU
- 3. Select SERVICE by rotating the knob
- **4.** Press the knob to enter section SERVICE
- 5. Select INPUTS OUTPUTS by rotating the knob
- **6.** Press the knob to view the list INPUTS OUTPUTS
- 7. Select 🗢 to exit from the view



#### **RESTORE**

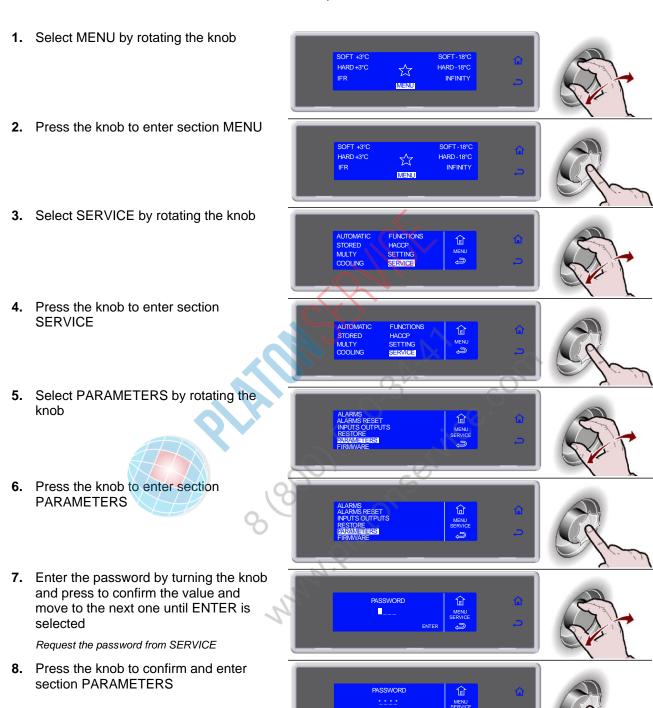
This function restores the original parameters.

**ATTENTION:** in case of use of this function as a user, contact the manufacturer for the exact settings of the configuration parameters.



#### **PARAMETERS**

**ATTENTION:** in case of use of this function as a user, contact the manufacturer.



# **MAINTENANCE**

# MAINTENANCE AND CLEANING

### **CLEANING THE CABINET**

Clean inside the cooling cabinet daily.

Both the cabinet and all the internal components have been designed and shaped to allow washing and cleaning all parts easily.

Before cleaning, defrost the appliance and remove the internal drain.

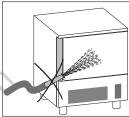
Disconnect the master switch.

Clean all components (stainless-stell, plastic or painted parts) with lukewarm water and detergent.

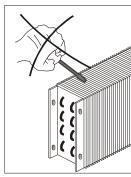
Then rinse and dry without using abrasives or chermical solvents.



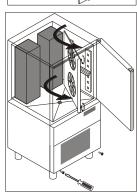
Do not wash the appliance by spraying high-pressure water on the machine.



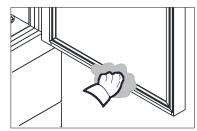
Do not rinse with sharp or abrasive tools, especially the evaporator.



You may clean inside the evaporator after loosening the knobs and rotating the protection component.

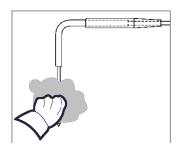


Wash the door gasket with water. Accurately dry with a dry cloth. We recommend wearing protecting gloves throughout the operations.



Hand-wash the probe using lukewarm water and a mild detergent or products with biodegradability higher than 90%. Rinse with water and sanitary solution. Do not use detergents containing solvents (such as trichloroethylene, etc) or abrasive powders

ATTENTION: do not use hot water to wash the probe.



#### **CLEANING THE AIR CONDENSER**

The air condenser should be kept clean to ensure the appliance's performance and efficiency, as air should freely circulate inside the appliance.

The condenser should therefore be cleaned every 30 days, using non-metal brushes to remove all dust and dirt from condenser blades.

Access to the condenser is from the front.

Unhook the front guard, pulling it towards you.



#### STAINLESS-STEEL MAINTENANCE

By stainless steel we mean INOX AISI 304 steel.

We recommend following the instructions below for the maintenance and cleaning of stainless-steel parts.

This is of the utmost importance to ensure the non-toxicity and complete hygiene of the processed foodstuffs.

Stainless-steel is provided with a thin oxide layer which prevents it from rusting. However, some detergents may destroy or affect this layer, therefore causing corrosion.

Before using any cleansing product, ask your dealer about a neutral chloriness cleansing product, as to avoid steel corrosions.

If the surface has been scratched polish it with fine STAINLESS-STEEL wool or a synthetic-fibre abrasive sponge. Always rub in the direction of the silking. **WARNING:** Never use iron wool for cleaning STAINLESS STEEL.

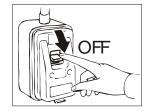
Furthermore, avoid leaving iron wool on the appliance surface as tiny iron deposits may cause the surface to rust by contamination and affect the hygiene of the appliance.



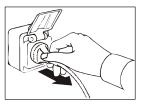
#### **DISCONTINUED USE**

Should the machine be disconnected over long periods, follow the instructions below to maintain the appliance in good condition:

Turn the mains switch OFF.



Disconnect the plug.

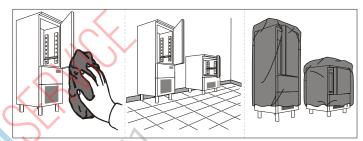


Empty the appliance and clean it in accordance with the instructions given in the chapter "CLEANING".

Leave the door ajar to prevent a bad smell.

Cover the compressor unit with a nylon cloth to protect it from dust.

In case of appliances with remote control, if you decide to turn it off, remember to put the switch off also in the remote control..



# **EXTRAORDINARY MAINTENANCE**

The information and instructions in this section are reserved for specialised personnel, authorised to operate on the equipment components.

# VIDEO BOARD AND ENCODER MAINTENANCE CHECKLIST

Turn the mains switch OFF.

Disconnect the plug.

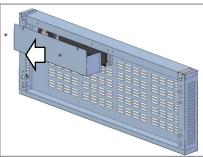
To access the video board and the encoder:

Mod. ...51- ...52M

Unhook the dashboard, pulling it forward.

Undo the guard screws and remove the cover to access to the video card and to the encoder.





Mod. ...51M

Undo the two screws securing the plane. Rotate the plane and unplugging the power cord of the video board.



Undo the screws and remove the cover to access to the video card and to the encoder.





Mod. ...101...-...72...-...102...

Undo the screw under the dashboard. Unhook the dashboard, pulling it forward.





Undo the guard screws and remove the cover to access to the video card and to the encoder.



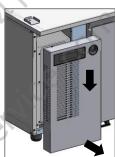


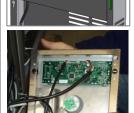
Mod. ...51H

Undo the screws under the dashboard. Unhook the dashboard pushing it in a downward direction.

Undo the guard screws and remove the cover to access to the video card and to the encoder.







# MAINTENANCE OF PANEL BOARD

Turn the mains switch OFF. Disconnect the plug.

To be able to access the electric picture:

*Mod.* ...51...-...52...

Unhook the front guard, pulling it towards you.



Remove the closing panel screws. Remove the closing panel.





Remove the electrical panel locking screw.

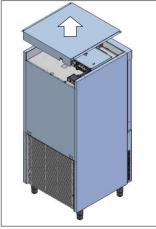
Move the electrical panel box along the slide.





Mod. ...101...-...72...-...102...

Remove the protection panel out in the upper part of the appliance.



Mod. ...51H

Remove the side panel, undoing the screws.



# **CONDENSING SYSTEM MAINTENANCE**

*Mod.* ...51...-...52...-...101...-...72...-....102...

To access the condensing system, remove the rear protective grille, undoing the screws.



Mod. ...51H

To access the condensing system, remove the side panel, undoing the screws.



#### REPLACEMENT CORE PROBE

Turn left completely unscrewing the connector to disconnect the cable of the core probe.

Replace the core probe by screwing the connector fully.









# **ENERGY CONSUMPTION CHART**

	XA51 XA51M	XA101L XA101S	XA72S	XS51 XS51M	XS52M	XS51H	XS101L XS101S	XS72S	XS102S	
Chilled full load capacity [kg]	18	36	60	22	25	16	45	70	100	
Cooling temperature [°C]	+65 ÷ +10									
Time cycle ( chilling ) [min]	120									
Energy consumption for chilling [kWh/kg]	0,091	0,088	0,105	0,084	0,085	0,133	0,126	0,098	0,091	
Frozen full load capacity [kg]		-		13	15	13	27	35	50	
Freezing temperature [°C]		-		+65 ÷ -18						
Time cycle ( freezing ) [min]		-			270					
Energy consumption for freezing [kWh/kg]	-			0,301	0,29	0,45	0,398	0,40	0,342	
Refrigerant name				111	R452A					
GWP			$\triangle$	111.	2141					
Refrigerant charge [kg]	1	1,8	2	1,4	1,5	1,4	2	2,7	4,5	
			7.6/2	30.31	».lx	Co.	om			

# **WIRING DIAGRAM PLATE**

The electrical diagram is shown on the last page of the booklet.



N°	DESCRIPTION	N°	DESCRIPTION
1	COMPRESSOR		ELECTRONIC DATA CARD LCD
2	2 CONDENSER FAN		FUSE-HOLDER WITH UNIPOLAR FUSE
2A	2A THERMOSTATED CONDENSER FAN		ELECTROVALVE
3	3 GENERAL TERMINAL BOARD		MAGNETIC MICRO-SVWITCH
3A	A GENERAL TERMINAL BOARD		COMPARTMENT PROBE
3B	GENERAL TERMINAL BOARD		EVAP./DEFROST PROBE
9	EVAPORATOR FUN		MULTIPOINT NEEDLE CORE PROBE
20	DOOR ANTICONDENSING RESISTOR		MULTIPOINT PROBE RESISTANCE
21	DEFROST RESISTANCE		PTC RESISTANCE FOR COMPRESSOR CASING
21A	DEFROST RESISTANCE		CONDENSER PROBE
25	TRANSFORMER		LCD QUICK COOLER CARD
56	FILTER		EVAP. FAN CHOKE MODULE
65	CONTACTOR		BIMETALLIC SAFETY THERMOSTAT
66	THERMAL RELAY		LED LAMPS
67	EVAPORATOR FAN RUN CAPACITOR		RGB CONTROLLER
67A	EVAPORATOR FAN RUN CAPACITOR		USB ADAPTER
69	GROUNDING TERMINAL		ENCODER ADAPTER
70	HIGH PRESSURE PRESSOSTAT		
71	POWER PANEL ELECTRONIC CARD		