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II. FOREWORD



The installation, use and maintenance Manual (hereinafter Manual) provides the user with information necessary for correct and safe use of the machine (hereinafter “machine” or “appliance”). The following must not be considered a long and exacting list of warnings, but rather a set of instructions suitable for improving machine performance in every respect and, above all, preventing injury to persons and animals and damage to property due to improper operating procedures. All persons involved in machine transport, installation, commissioning, use and maintenance, repair and disassembly must consult and carefully read this manual before carrying out the various operations, in order to avoid wrong and improper actions that could compromise the machine’s integrity or endanger people. Make sure to periodically inform the appliance user regarding the safety regulations. It is also important to instruct and update personnel authorised to operate on the machine, regarding its use and maintenance. The manual must be available to operators and carefully kept in the place where the machine is used, so that it is always at hand for consultation in case of doubts or whenever required. If, after reading this manual, there are still doubts regarding machine use, do not hesitate to contact the Manufacturer or the authorised after-sales service centre, to receive prompt and precise assistance for better operation and maximum efficiency of the machine. During all stages of machine use, always respect the current regulations on safety, work hygiene and environmental protection. It is the user’s responsibility to make sure the machine is started and operated only in optimum conditions of safety for people, animals and property.

The manufacturer declines any liability for operations carried out on the appliance without respecting the instructions given in this manual. No part of this manual may be reproduced.

CHARACTERISTICS		Refrigerator model	Freezer model
Internal temp. Range	°C	-2 +10	-19 -22
Single phase power supply (50Hz)	V	230	230
Power input	W	500	600
Max. current input	A	2,6	3
Refrigeration output (1)	W	400 ⁽¹⁾	410 ⁽²⁾
Max. ambient temperature	°C	+43	+43
Refrigerant	R	404A	404A
Grill/drawer dimensions	mm	Grills 325 x 530	Drawer 305x590*250

(1) With an ambient temperature of +43°C, a condensation temperature of +50°C and an evaporation temperature of -15°C.

(2) With an ambient temperature of +43°C, a condensation temperature of +50°C and an evaporation temperature of -35°C.

III. INSTALLATION

1. GENERAL INFORMATION

1.1 INTRODUCTION

Given below is some basic information regarding the machine's intended use, its testing, and a description of the symbols used (that identify the type of warning), the definitions of terms used in the manual and useful information for the appliance user.

1.2 INTENDED USE AND RESTRICTIONS

Install the appliance in compliance with the current regulations and laws regarding installation of electric and gas appliances.

This appliance is manufactured in compliance with the requirements of Directives:

- CEE 89/336 electromagnetic compatibility
- CEE 73/23 low voltage
- CEE 98/37 machines

and relative reference standards.

Our appliances are designed and optimised in order to obtain high performance and efficiency. The appliance is not intended for use by people (including children) with limited physical, sensory or mental abilities or without experience and knowledge of it, unless they are supervised or instructed in its use by a person responsible for their safety.

ATTENTION: The machine is not suitable for installation outdoors and/or in places exposed to atmospheric agents (rain, direct sunlight, etc.).

The manufacturer declines any liability for improper use of the product.

1.3 TESTING AND INSPECTION

Our appliances are designed and optimised, with laboratory testing, in order to obtain high performance and efficiency. The product is shipped ready for use. Passing of the tests (visual inspection - electrical/gas test - functional test) is guaranteed and certified by the specific enclosures.

1.4 DEFINITIONS

Listed below are the definitions of the main terms used in the manual. Carefully read them before using the manual.

Operator

machine installation, adjustment, use, maintenance, cleaning, repair and transport personnel.

Manufacturer

Electrolux Professional SPA or any other service centre authorised by Electrolux Professional SPA.

Operator for normal machine use

an operator who has been informed and trained regarding the tasks and hazards involved in normal machine use.

Technical assistance or specialised technician

an operator instructed/trained by the Manufacturer and who, based on his professional and specific training, experience and knowledge of the accident-prevention regulations, is able to appraise the operations to be carried out on the machine and recognise and prevent any risks. His professionalism covers the mechanical, electrotechnical and electronics fields.

Danger

source of possible injury or harm to health.

Hazardous situation

any situation where an operator is exposed to one or more hazards.

Risk

a combination of probabilities and risks of injury or harm to health in a hazardous situation.

Protection devices

safety measures consisting of the use of specific technical means (guards and safety devices) for protecting operators against risks.

Guard

an element of a machine used in a specific way to provide protection by means of a physical barrier.

Safety device

a device (other than a guard) that eliminates or reduces the risk; it can be used alone or in combination with a guard.

Customer

the person who purchased the machine and/or who manages and uses it (e.g. company, entrepreneur, firm).

Electrocution

an accidental discharge of electric current on a human body.

1.5 TYPOGRAPHICAL CONVENTIONS

For best use of the manual, and therefore the machine, it is advisable to have good knowledge of the terms and typographical conventions used in the documentation. The following symbols are used in the manual to indicate and identify the various types of hazards:



**ATTENTION!
RISK FOR THE HEALTH AND SAFETY
OF OPERATORS.**



**ATTENTION!
DANGER OF ELECTROCUTION -
DANGEROUS VOLTAGE.**



**ATTENTION!
RISK OF DAMAGE TO THE MACHINE.**

Words further explaining the type of hazard are placed next to the symbols in the text. The warnings are intended to guarantee the safety of personnel and prevent damage to the machine or the product being worked. The drawings and diagrams given in the manual are not in scale. They supplement the written information with an outline, but are not intended to be a detailed representation of the machine supplied.

The numerical values given on the machine installation diagrams refer to measurements expressed in mm.

1.6. MACHINE AND MANUFACTURER'S IDENTIFICATION DATA

A reproduction of the marking or dataplate on the machine is given below:

EL.

Mod.					N°			L
EL.		V		Hz	A		kW	
			IP 24			CE		

MOD. NR							
PROD. N°							
CLIMATIC CLASS - KLIMA KLASS		CAP.	C				
REFRIGERANTE KÄLTEMITTEL	D		E				
230 V - 50 Hz			0,500				
RESISTENZA SBRINAMENTO ABTAUHEIZUNG			F				
RESISTENZA SCARICO ABFLUSSHEIZUNG			G				
ILLUMINAZIONE BELEUCHTUNG			H				

The meaning of the various information given on it is listed below:

- Model factory description of product
 N serial number
 EL:.....~ power supply voltage+phase
 Hz: power supply frequency
 kW: max. power input
 A current absorbed
 IP24 dust and water protection rating
 CE CE marking
 B climatic class
 C refrigerated compartment capacity (in litres)
 D type of refrigerant
 E grams of refrigerant
 F defrost heating element power
 G drain heating element power
 H lighting power
 L year of construction

Electrolux Professional SPA
 Viale Treviso, 15
 33170 Pordenone
 (Italy) Manufacturer

When installing the appliance, make sure the electrical connection is carried out in compliance with that specified on the dataplate.



ATTENTION!

Do not remove, tamper with or make the machine "CE" marking illegible.



ATTENTION!

Refer to the data given on the machine "CE" marking for relations with the Manufacturer (e.g. when ordering spare parts, etc.).



ATTENTION!

When scrapping the machine, the "CE" marking must be destroyed.

1.7 APPLIANCE IDENTIFICATION

This manual contains instructions relevant to various appliances.

See the appliance dataplate located under the control panel to identify the appliance product code.

1.8 COPYRIGHT

This manual is intended solely for consultation by the operator and can only be given to third parties with the permission of Electrolux Professional SPA.

1.9 RESPONSIBILITY

The Manufacturer declines any liability for damage and malfunctioning caused by:

- non-compliance with the instructions contained in this manual;
- repairs not carried out in a workmanlike fashion, and replacements with parts different from those specified in the spare parts catalogue (the fitting and use of non-original spare parts and accessories can negatively affect machine operation and invalidates the warranty);
- operations by non-specialised technicians;
- unauthorised modifications or operations;
- inadequate maintenance;
- improper machine use;
- unforeseeable extraordinary events;
- use of the machine by personnel who are uninformed, not instructed and not trained;
- non-application of the current provisions in the country of use, concerning safety, hygiene and health in the workplace.






The Manufacturer declines any liability for damage caused by arbitrary modifications and conversions carried out by the user or the Customer. The employer, workplace manager or service technician are responsible for identifying and choosing adequate and suitable personal protection equipment to be worn by operators, in compliance with regulations in force in the country of use.

Electrolux Professional SPA declines any liability for any inaccuracies contained in the manual, if due to printing or translation errors.




Any supplements to the installation, use and maintenance manual the Customer receives from the Manufacturer will form an integral part of the manual and therefore must be kept together with it.

1.10 PERSONAL PROTECTION EQUIPMENT

Given below is a summary table of the Personal Protection Equipment (PPE) to be used during the various stages of the machine's service life.

Stage	Protective garments 	Safety footwear 	Gloves 	Glasses 	Safety helmet 
Transport					
Handling					
Unpacking					
Assembly					
Normal use					
Adjustments					
Routine cleaning					
Extraordinary cleaning					
Maintenance					
Dismantling					
Scrapping					

Key:

	PPE REQUIRED
	PPE AVAILABLE OR TO BE USED IF NECESSARY
	PPE NOT REQUIRED

During **Normal use**, gloves protect hands from contact with hot food or hot parts of the appliance.

1.11 KEEPING THE MANUAL

The manual must be carefully kept for the entire life of the machine, until scrapping.

The manual must stay with the machine in case of transfer, sale, hire, granting of use or leasing.

1.12 RECIPIENTS OF THE MANUAL

This manual is intended for:

- the carrier and handling personnel;
- installation and commissioning personnel;
- the employer of machine users and the workplace manager;
- operators for normal machine use;
- specialised technicians - After-Sales Service.

2. TRANSPORT, HANDLING AND STORAGE

2.1 INTRODUCTION

Transport (i.e. transfer of the machine from one place to another) and handling (i.e. transfer inside workplaces) must occur with the use of special and adequate means.



ATTENTION!

Given their size, the machines can be stacked on top of each other during transport, handling and storage by complying with that specified on the slip placed on the packing.

The machine must only be transported, handled and stored by qualified personnel, who must:

- have specific technical training and experience in the use of lifting systems;
- have knowledge of the safety regulations and applicable laws in the relevant sector;
- have knowledge of the general safety rules;
- ensure the use of personal protection equipment suitable for the type of operation carried out;
- be able to recognise and avoid any possible hazard.

2.2 TRANSPORT: INSTRUCTIONS FOR THE CARRIER



ATTENTION!

Do not stand under suspended loads during loading/unloading operations. Unauthorised personnel must not enter the work area.



ATTENTION!

The machine's weight alone is not sufficient to keep it steady. The transported load can shift:

- when braking;
- when accelerating;
- in corners;
- on rough roads.

2.3 HANDLING

Arrange a suitable area with flat floor for machine unloading and storage operations.

2.4 PROCEDURES FOR HANDLING OPERATIONS

For correct and safe lifting operations:

- use the type of equipment most suitable for characteristics and capacity (e.g. electric pallet truck or lift truck);
 - cover sharp edges;
- Before lifting:
- send all operators to a safe position and prevent people from entering the handling area;
 - make sure the load is stable;
 - make sure no material can fall during lifting. Manoeuvre vertically in order to avoid impacts;
 - handle the machine, keeping it at minimum height from the ground.



ATTENTION!

For machine lifting and anchoring, do not use movable or weak parts such as: casings, electrical raceways, pneumatic parts, etc.

2.5 TRANSLATION

The operator must:

- have a general view of the path to be followed;
- stop the manoeuvre in case of hazardous situations.



ATTENTION!

Do not push or pull the appliance to move it, as it may tip over.

2.6 PLACING THE LOAD

Before placing the load, make sure the way is free and that the floor is flat and can take the load. Remove the appliance from the wooden pallet, move it to one side, then slide it onto the floor.

2.7 STORAGE

The machine and/or its parts must be stored and protected from damp, in a non-aggressive place, free of vibrations and with room temperatures between -10°C and 50°C. The place where the machine is stored must have a flat support surface in order to avoid deformation of the machine or damage to the support feet.



ATTENTION!

Machine positioning, installation and disassembly must be carried out by a specialised technician.



ATTENTION!

Do not make modifications to the parts supplied with the machine. Any missing or faulty parts must be replaced with original parts.

3. INSTALLATION AND ASSEMBLY

To ensure correct operation of the appliance and maintain safe conditions during use, carefully follow the instructions given below in this section.



ATTENTION!

The operations described below must be carried out in compliance with the current safety regulations, regarding the equipment used and the operating procedures.



ATTENTION!

Before moving the appliance make sure the capacity of the lifting equipment used is suitable for its weight.

3.1 CUSTOMER'S RESPONSIBILITIES

The Customer must:

- prearrange a high-sensitivity manual-reset differential thermal-magnetic switch. For information regarding the electrical connection, refer to par. 4.1 "Electrical connection";
- check the flatness of the surface on which the machine is placed.
- provide a device lockable in the open position for the connection to the power supply.
- ensure the connection to a suitable earthing system (par. 4.2)

3.2 MACHINE SPACE LIMITS

A suitable space must be left around the machine (for operations, maintenance, etc.). This space must be increased in case of use and/or transfer of other equipment and/or means or if exit routes are necessary inside the workplace.



RISK OF FIRE - Keep the area around the appliance free and clear of combustibles.

Do not keep flammable materials in the vicinity of this appliance.

Install the appliance in a well-ventilated place to avoid the creation of dangerous mixtures of unburnt gases in the same room.

Air recirculation must take into account the air necessary for combustion, 2 m³/h/kW of gas power, as well as the "well-being" of persons working in the kitchen.

Inadequate ventilation causes asphyxia. Do not obstruct the ventilation system in the place where this appliance is installed.

Do not obstruct the vents or ducts of this or other appliances.

Place emergency telephone numbers in a visible position.

3.3 POSITIONING

The installation diagram provided in this instruction manual gives the appliance overall dimensions and the position of connections (gas, electricity, water).

The appliance can be installed separately or combined with other appliances of the same range.

- The appliance must be installed in a well ventilated room, as far as possible from heat sources and in such a way so as to ensure good air circulation, especially around the compressor unit. The room temperature should not exceed +43°C in order to maintain the recommended internal temperatures.

- Use the height-adjustable feet to make sure the appliance is level, and at the same time check that the door closes properly.

- For appliances with stainless steel cabinets, peel off the protective film very slowly, without tearing it, to avoid leaving glue stuck to the surface. Should this happen, remove the traces of glue with kerosene or benzine.

Install the appliance, taking all the safety precautions required for this type of operation, also respecting the relevant fire-prevention instructions.

If the machine is installed in places where there are corrosive substances (chlorine, etc.), it is advisable to go over all the stainless steel surfaces with a rag soaked in paraffin oil to create a protective film.

The machine must be taken to the place of installation and the packing base removed only when being installed.



NOTE

PERMANENT CONNECTION: The device lockable in the open position must be accessible even after the appliance is installed in its place.

- wear protective gloves and unpack the machine, carrying out the following operations:
 - cut the straps and remove the protective film, taking care not to scratch the surface if scissors or blades are used;
 - remove the polystyrene corners and the vertical protection pieces. For appliances with stainless steel cabinet, remove the protective film very slowly without tearing it, to avoid leaving glue stuck to the surface. Should this happen, remove the traces of glue with a non-corrosive solvent, rinsing it off and drying thoroughly; it is advisable to go over all the stainless steel surfaces with a rag soaked in paraffin oil in order to create a protective film.

3.4 DISPOSAL OF PACKING

The packing must be disposed of in compliance with the current regulations in the country where the appliance is used. All the packing materials are environmentally friendly. They can be safely kept, recycled or burned in an appropriate waste incineration plant. Recyclable plastic parts are marked as follows:



PE

polyethylene: outer wrapping, instruction booklet bag



PP

polypropylene: straps



PS

polystyrene foam: corner protectors

The parts in wood and cardboard can be disposed of, respecting the current regulations in the country where the machine is used.

4. CONNECTIONS

Refer to the appliance dataplate for the product code.

See the installation diagrams for the position of connections on the appliance.

4.1 ELECTRICAL CONNECTION

- The electrical connection must be carried out in conformity with the current local safety regulations.
- To connect to the power supply, insert the power plug into the corresponding mains socket, first making sure that:
 - the voltage and frequency rated on the appliance data plate conform to those of the mains supply;
 - the mains socket has an adequate current carrying capacity and is suitably earthed. If you have doubts about the efficiency of the earth connection have the installation checked by a qualified technician.
 - an all-pole circuit-breaker with minimum contact gap of 3 mm must be fitted between the socket and the power supply line.
- The appliance must also be included in a suitably dimensioned equipotential system of proven efficiency.

Note!

Because this appliance has a Y-type electric connection, the power supply cable must only be replaced by a qualified electrician.

4.2 EQUIPOTENTIAL NODE AND EARTH CONNECTION

Connect the appliance to an earth; it must be included in an equipotential node by means of the screw located under the frame. The screw is marked with the symbol:



The Manufacturer declines all liability for situations arising from failure to comply with these safety regulations.

IV. INSTRUCTIONS FOR OPERATOR FOR NORMAL MACHINE USE

1. USE

- This appliance must be used exclusively for the purpose for which it has been designed, namely for the refrigeration or preservation of food. Any other use is to be considered improper.
- To get the best use of the appliance, observe the following indications:
 - avoid placing hot foods or liquids in the appliance,
 - make sure all foods are covered or wrapped,
 - leave enough space between the grids and the sides of the appliance in order to ensure correct air circulation,
 - do not leave the doors open for long periods whilst placing items in or removing items from the appliance.

1.1 REFRIGERATOR MODELS (fig.1)

Control panel

- A** - Digital Thermoregulator
- B** - Ignition
- C** - Main switch

1.1.1 SWITCHING ON

- Switch on the safety switch upline of the appliance.
- Press the control panel switch "C"; lighting up of the incorporated indicator signals that the power is on.
- Activate the digital thermoregulator "A" by keeping the button "B" for at least 5 seconds.
- The thermostat is factory set to a working temperature of 0°C. When the appliance is working, the Digital Thermoregulator "A" indicates the internal cell temperature.
- When the set temperature has been reached, the thermostat will disconnect the compressor unit and reconnect when necessary so as to maintain an almost constant temperature.

1.1.2 DEFROSTING

The appliance is equipped with an automatic defrost function. The defrost water is collected in a basin under the appliance.



1.2 FREEZER MODELS (fig.1)

Control panel

- A** - Thermometer and electronic control
- B** - Ignition
- C** - Main switch

1.2.1 SWITCHING ON (fig.1)

- Switch on the safety switch upline of the appliance.
- Press the control panel switch "C"; lighting up of the incorporated indicator signals that the power is on.
- Press the control panel switch "C"; lighting up of the incorporated indicator signals that the power is on.
- Activate the digital thermoregulator "A" by keeping the button "B" for at least 5 seconds.
- The thermostat is factory set to a working temperature of -22°C to guarantee an average cell temperature of -20°C. The working temperature can be changed:

  to increase the temperature,

  to lower the temperature.

When the appliance is working, the Digital Thermoregulator "A" indicates the internal cell temperature.

- When the set temperature has been reached, the thermostat will disconnect the compressor unit and reconnect when necessary so as to maintain an almost constant temperature.

1.2.1 DEFROSTING

The appliance is equipped with an automatic defrost function.

V. CLEANING AND MAINTENANCE

1 GENERAL SAFETY RULES



ATTENTION!

Machine maintenance operations must only be carried out by specialised Technicians provided with suitable personal protection equipment (safety shoes, gloves, glasses, overalls, etc.), tools, utensils and ancillary means.



ATTENTION!

Never operate the machine, removing, modifying or tampering with the guards, protection or safety devices.



ATTENTION!

Before carrying out any operation on the machine, always consult the manual which gives the correct procedures and contains important information on safety.

1.1 INTRODUCTION

The machines are provided with electric and/or mechanical safety devices for protecting workers and the machine itself. Therefore the user must not remove or tamper with such devices.

The Manufacturer declines any liability for damage due to tampering or their non-use.

1.2 PROTECTION DEVICES INSTALLED ON THE MACHINE

1.2.1 Guards

The guards on the machine are:

- fixed guards (e.g. casings, covers, side panels, etc.), fixed to the machine and/or frame with screws or quick-release connectors that can only be removed or opened with tools;
- machine electrical equipment access doors made from hinged panels openable with tools, with the machine disconnected from the power supply.



ATTENTION!

Several illustrations in the manual show the machine, or parts of it, without guards or with guards removed. This is purely for explanatory purposes. Do not use the machine without the guards or with the protection devices deactivated.

1.2.2 SAFETY SIGNS TO BE PLACED ON THE MACHINE OR NEAR ITS AREA

RISK	MEANING
	RISK OF ELECTRIC SHOCK



ATTENTION!

Do not remove, tamper with or make illegible the safety, danger and instruction signs and labels on the machine.

1.2.3 CEASED USE

When the appliance is no longer to be used, make it unusable by removing the mains power supply wiring.

1.2.4 INSTRUCTIONS FOR USE AND MAINTENANCE

Risks mainly of a mechanical, thermal and electrical nature are present in the machine.

Where possible the risks have been neutralised:

- directly, by means of adequate design solutions,
 - indirectly by using guards, protection and safety devices.
- During maintenance several risks remain, as these could not be eliminated, and must be neutralised by adopting specific measures and precautions.

Do not carry out any checking, cleaning, repair or maintenance operations on moving parts.

Workers must be informed of the prohibition by means of clearly visible signs. To guarantee machine efficiency and correct operation, periodical maintenance must be carried out according to the instructions given in this manual. In particular, make sure to periodically check correct operation of all the safety devices and the insulation of electrical cables, which must be replaced if damaged.

1.2.5 REASONABLY FORESEEABLE IMPROPER USE

Improper use is any use different from that specified in this manual. During machine operation, other types of work or activities deemed improper and that in general can involve risks for the safety of operators and damage to the appliance are not allowed.

Reasonably foreseeable improper use includes:

- lack of machine maintenance, cleaning and periodical checks;
- structural changes or modifications to the operating logic;
- tampering with the guards or safety devices;
- failure to use personal protection equipment by operators, specialised technicians and personnel for normal use;
- failure to use suitable accessories (e.g. use of unsuitable equipment or ladders);
- keeping combustible or flammable materials, or in any case materials not compatible with or pertinent to the work, near the machine;
- wrong machine installation;
- climbing on the machine;
- non-compliance with the requirements for correct machine use;
- other actions that give rise to risks not eliminable by the Manufacturer.



ATTENTION!
The previously described actions are prohibited!

1.2.6 RESIDUAL RISKS

The machine has several risks that were not completely eliminated from a design standpoint or with the installation of adequate protection devices.

Nevertheless, through this manual the Manufacturer has taken steps to inform operators of such risks, carefully indicating the personal protection equipment to be used by them.

Sufficient spaces are provided for during the machine installation stages in order to limit these risks.

To preserve these conditions, the areas around the machine must always be:

- kept free of obstacles (e.g. ladders, tools, containers, boxes, etc.);
- clean and dry;
- well lit.

For the Customer's complete information, the residual risks remaining on the machine are indicated below: such actions are deemed improper and therefore strictly forbidden.

RESIDUAL RISK	DESCRIPTION OF HAZARDOUS SITUATION
Slipping or falling	The operator can slip due to water or dirt on the floor.
Burns/abrasions (e.g. heating elements)	The operator deliberately or unintentionally touches some components inside the machine without using protective gloves.
Electrocution	Contact with live parts during maintenance operations carried out with the electrical panel powered.
Tipping of loads	When handling the machine or the packing containing it, using unsuitable lifting systems or accessories or with the load unbalanced.

2. NORMAL MACHINE USE

2.1 CHARACTERISTICS OF PERSONNEL TRAINED FOR NORMAL MACHINE USE

The Customer must make sure the personnel for normal machine use are adequately trained and skilled in their duties, as well as ensuring their own safety and that of other persons. The Customer must make sure his personnel have understood the instructions received and in particular those regarding work hygiene and safety in use of the machine.

2.2 CHARACTERISTICS OF PERSONNEL QUALIFIED TO OPERATE ON THE MACHINE

The Customer is responsible for ensuring that persons assigned to the various duties:

- read and understand the manual;
- receive adequate training and instruction for their duties in order to perform them safely;
- receive specific training for correct machine use.

2.3 OPERATOR FOR NORMAL USE

He must have at least:

- knowledge of the technology and specific experience in operating the machine;
 - adequate general basic education and technical knowledge for reading and understanding the contents of the manual;
 - including correct interpretation of the drawings, signs and pictograms;
 - sufficient technical knowledge for safely performing his duties as specified in the manual;
 - knowledge of the regulations on work hygiene and safety.
- In case of a significant anomaly (e.g. short circuits, wires coming out of the terminal block, motor breakdowns, worn electrical cable sheathing, etc.) the operator for normal machine use must:
- immediately deactivate the machine.

3. MACHINE CLEANING AND MAINTENANCE



ATTENTION!
Before carrying out any cleaning or maintenance operation, disconnect the appliance from the power supply by means of the device lockable in open position.



ATTENTION!
During maintenance, the cable and plug must be kept in a visible position by the operator carrying out the work.



ATTENTION!
Do not touch the appliance with wet hands or feet or when barefoot. DO NOT remove the safety guards.



ATTENTION!
Use suitable personal protection equipment (protective gloves).

3.1 ROUTINE MAINTENANCE

Frequently check the state of the power cable and, if necessary, request the assistance of the specialised technician to replace it; have the appliance checked periodically (at least once a year).



ATTENTION!

Disconnect the power supply before cleaning the appliance.

3.2 PRECAUTIONS FOR MAINTENANCE

Routine maintenance operations can be carried out by non-specialised personnel, carefully following the instructions given below. **The manufacturer declines any liability for operations carried out on the machine without following these instructions.**

3.3 CLEANING THE APPLIANCE AND ACCESSORIES



Before using the appliance, clean all the internal parts and accessories with lukewarm water and neutral soap or products that are over 90% biodegradable (in order to reduce the emission of pollutants into the environment), then rinse and dry thoroughly. Do not use solvent-based detergents (e.g. trichloro-ethylene) or abrasive powders for cleaning. It is advisable to go over the stainless steel surfaces with a rag moistened with paraffin oil in order to create a protective film.



ATTENTION!

Do not clean the machine with jets of water.

3.4 PRECAUTIONS IN CASE OF LONG IDLE PERIODS

If the appliance is not going to be used for a long period, take the following precautions :

- remove the plug from the socket;
- remove all food from the cell and clean the interior and the accessories;
- leave the doors open to allow the air to circulate inside, so preventing the formation of unpleasant odours;
- briskly rub a cloth soaked in vaseline oil over all the stainless steel surfaces so that it forms a protective film;
- air the premises regularly.



ATTENTION!

Put the machine in safe conditions before starting any maintenance operation.

After carrying out maintenance, make sure the machine is able to work safely and, in particular, that the protection and safety devices are efficient.



ATTENTION!

Respect the requirements for the various routine and extraordinary maintenance operations.

Non-compliance with the instructions can create risks for personnel.

3.5 EXTERNAL PARTS

SATIN-FINISH STEEL SURFACES (daily)

- Clean all the steel surfaces: dirt is easily removed when it has just formed.
- Remove grime, fat and other cooking residuals from steel surfaces when cool using soapy water, with or without detergent, and a cloth or sponge. Dry the surfaces thoroughly after cleaning.
- In case of encrusted grime, fat or food residuals, go over with a cloth or sponge, wiping in the direction of the satin finish and rinsing often: rubbing in a circular motion combined with the particles of dirt on the cloth/sponge could spoil the steel's satin finish.
- Metal objects can spoil or damage the steel: damaged surfaces become dirty more easily and are more subject to corrosion.
- Restore the satin finish if necessary.

SURFACES BLACKENED BY HEAT (when necessary)

Exposure to high temperatures can cause the formation of dark marks. These do not constitute damage and can be removed by following the instructions given in the previous section.

3.7 INTERNAL PARTS (every 6 months)

IMPORTANT! Operations to be carried out only by specialised technicians.

- Check the internal parts.
- Remove any deposits of dirt inside the appliance.
- Check and clean the discharge system.

NOTE ! In particular ambient conditions (e.g. **intensive** use of the appliance, salty environment, etc.) the above-mentioned cleaning should be more frequent.

3.8 EXTRAORDINARY MAINTENANCE.



ATTENTION!
USE SUITABLE PERSONAL PROTECTION EQUIPMENT WHEN CARRYING OUT ANY EXTRAORDINARY MAINTENANCE OPERATION.

Extraordinary maintenance must be carried out by specialised personnel, who can ask the manufacturer to supply a servicing manual.

There must be free air circulation above the appliance. There must be no obstructions caused by trays, cardboard boxes, jars or other materials; otherwise they must be immediately removed.

3.8.1` MAINTENANCE INTERVALS

The inspection and maintenance intervals depend on the actual machine operation conditions and ambient conditions (presence of dust, damp, etc.), therefore precise time intervals cannot be given. In any case, careful and periodical machine maintenance is advisable in order to minimise interruptions of the service.

It is advisable to stipulate a preventive and scheduled maintenance contract with the after-sales service.

3.8.2 MAINTENANCE FREQUENCY

In order to guarantee constant machine efficiency, it is advisable to carry out the checks with the frequency given in the following table:

MAINTENANCE, INSPECTIONS, CHECKS AND CLEANING	FREQUENCY
Routine cleaning General cleaning of machine and surrounding area	Daily
Cleaning internal parts Check condition, and for any deformation, loosening or removed parts.	Every six months
Control Check mechanical part, for any breakage or deformation, tightening of screws. Check readability and condition of words, stickers and symbols and restore if necessary.	Yearly
Machine structure Tightening of main bolts (screws, fixing systems, etc.) of machine.	Yearly
Safety signs Check readability and condition of safety signs.	Yearly
Electrical connection cable and plug Check the connection cable (replace it if necessary).	Yearly
Extraordinary machine maintenance Check all gas components	Yearly

The machine is designed and built for a duration of about 10 years. After this period of time (from machine commissioning) the machine must undergo a general overhaul. Some examples of checks to be carried out are given below.

- check for any oxidised electrical components or parts; if necessary, replace them and restore the initial conditions;
- check the structure and welded joints in particular;
- check and replace bolts and/or screws, also checking for any loose components;
- check the electrical and electronic system;
- check the functionality of safety devices;
- check the general condition of protection devices and guards.



ATTENTION!

Machine maintenance, checking and overhaul operations must only be carried out by a specialised Technician or the After-Sales Service, provided with suitable personal protection equipment (safety shoes and gloves), tools and ancillary means.



ATTENTION!

Work on the electrical equipment must only be carried out by a specialised electrician or the After-Sales Service.

3.8.3 DISASSEMBLY

If the appliance has to be disassembled and then reassembled, make sure the various parts are assembled in the correct order (if necessary mark them during disassembly).

Before disassembling the machine, make sure to carefully check its physical condition, and in particular any parts of the structure that can give or break. Before starting disassembly:

- remove all the pieces (if present) in the machine;
- disconnect the power supply;
- enclose the work area;
- display a sign indicating that the machine is undergoing maintenance and not to carry out manoeuvres;
- carry out the disassembly operations.



ATTENTION!

All scrapping operations must occur with the machine stopped and cold and all the energy sources (water, gas electricity) disconnected.



ATTENTION!

To carry out these operations, appropriate PPE must be used.



ATTENTION!

During disassembly and handling of the various parts, the minimum height from the floor must be maintained.

3.8.4 DECOMMISSIONING

If the machine cannot be repaired, carry out the decommissioning operations, signalling the failure with a suitable sign, and request assistance of the manufacturer's after-sales service.

4. MACHINE DISPOSAL



ATTENTION!

DISMANTLING OPERATIONS MUST BE CARRIED OUT BY QUALIFIED PERSONNEL.



ATTENTION!

WORK ON THE ELECTRICAL EQUIPMENT MUST ONLY BE CARRIED OUT BY A QUALIFIED ELECTRICIAN, WITH THE POWER SUPPLY DISCONNECTED.

4.1 WASTE STORAGE


At the end of the product's life-cycle, make sure it is not dispersed in the environment.

Special waste materials can be stored temporarily while awaiting treatment for disposal and/or permanent storage. In any case, the current environmental protection laws in the country of use must be observed.

4.2 PROCEDURE REGARDING APPLIANCE DISMANTLING MACRO OPERATIONS

Before disposing of the machine, make sure to carefully check its physical condition, and in particular any parts of the structure that can give or break during scrapping.

The machine's parts must be disposed of in a differentiated way, according to their different characteristics (e.g. metals, oils, greases, plastic, rubber, etc.). Different regulations are in force in the various countries, therefore comply with the provisions of the laws and competent bodies in the country where scrapping takes place. In general, the appliance must be taken to a specialised collection/scrapping centre. Dismantle the appliance, grouping the components according to their chemical characteristics, remembering that the compressor contains lubricant oil and refrigerant fluid which can be recycled, and that the refrigerator components are special waste assimilable with urban waste.

The symbol  placed on the product indicates that it should **not** be considered as domestic waste, but must be correctly disposed of in order to prevent any negative consequences for the environment and the health of people. For further information on the recycling of this product, contact the local dealer or agent, the after-sales service or the local body responsible for waste disposal.



ATTENTION!

Make the appliance unusable by removing the power cable.



ATTENTION!

When scrapping the machine, the "CE" marking, this manual and other documents concerning the appliance must be destroyed.

5. ENCLOSED DOCUMENTS

- Set of test and inspection documents
- Wiring diagram
- Installation diagram