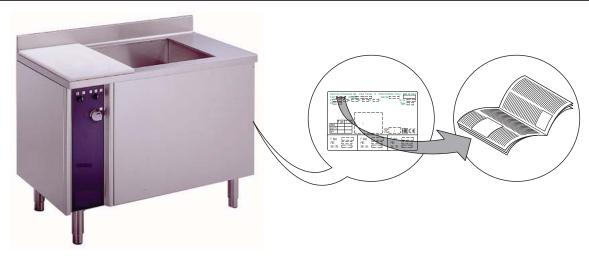
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II. DATA PLATE and TECHNICAL DATA



ATTENTION

This handbook contains instructions relevant to various appliances. See the data plate located under the control panel to identify the appliance (see fig. above).

TABLE A - Electrical appliance technical data			
MODELS TECHNICAL DATA		LV200	LV300
		660031	660033
Tank capacity	Lt	200	300
Cycle Load	Kg	8-30	10-40
Cycle duration	Min	2-3	2-3
Power supply voltage	V	380400	380400
Absorbed power	kW	1,1	1,1
Phases	Nr.	3N	3N
Frequency	Hz	50	50
Power cable section	mm²	1,5x5	1,5x5

III. INTRODUCTION



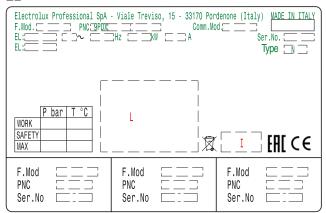
The installation, use and maintenance Manual (hereinafter Manual) provides the user with information necessary for correct and safe use of the machine (hereinafter "machine" or "appliance"). The following must not be considered a long and exacting list of warnings, but rather a set of instructions suitable for improving machine performance in every respect and, above all, preventing injury to people 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 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.

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

EL



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 data plate.

IV. GENERAL INSTRUCTIONS

- Read the instruction handbook carefully before using the appliance.
- Keep the instruction handbook for future reference.



 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.
- Air recirculation must take into account the air necessary for combustion, 2 m³/h/kW of gas power, and also 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.

(SOS) • Place emergency telephone numbers in a visible position.

- Installation and maintenance must only be carried out by qualified personnel authorised by the manufacturer. For assistance, contact an authorised service centre. Demand original replacement parts.
- This appliance is designed for washing fruit and vegetables. It is intended for industrial use. Any use different from that indicated is improper.
- This appliance cannot be used by minors and adults with limited physical, sensory or mental abilities or without adequate experience and knowledge regarding its use. Children must not play with the appliance; cleaning and maintenance operations must not be carried out by children without supervision.
- Personnel using the appliance must be trained and instructed regarding the risks involved.
- Do not leave the appliance unattended when in use
- Turn the appliance off in case of a fault or poor operation.
- Do not use products (even if diluted) containing chlorine (sodium hypochlorite, hydrochloric or muriatic acid, etc.) to clean the appliance or the floor under it. Do not use metal implements to clean steel parts (wire brushes or Scotch Brite type scouring pads).

- Do not allow oil or grease to come into contact with plastic parts.
- Do not allow grime, fat, food or other residuals to form deposits on the appliance.
- Do not clean the appliance with direct jets of water.
- Do not spray water or use steam to clean the appliance.
- The weighted sound pressure level A does not exceed 70 dB (A).
- This instruction booklet is available in digital format by contacting the dealer or Customer Care.
- Install a safety circuit breaker ahead of the appliance. The contact opening distance and max. leakage current must comply with the regulations in force.
- Connect the appliance to an earth, then include it in an equipotential node via the screw located at the back under the frame. The screw is marked with the symbol ∇ .
- It is advisable to have the appliance inspected by an authorised person at least once every 12 months. Therefore it is advisable to stipulate a servicing contract.
- The symbol week on the product indicates that it should not be regarded 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.
- The symbol "Read the instruction booklet" indicates that the booklet must be read before starting any operation.

Failure to observe the above can compromise the safety of the appliance. Failure to observe the above invalidates the warranty.

V. INSTALLATION

1. GENERAL INFORMATION

1.1. INTRODUCTION

Given below is some 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. **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

Our equipment is designed and optimised, with laboratory testing, in order to ensure 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. It is advisable to read them carefully before use.

Operator

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

Manufacturer

Electrolux Professional SpA or any other assistance 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.

After-sales service 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 know all 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!

DANGER 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 ensure 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 in mm.



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.

1.6. APPLIANCE IDENTIFICATION

This manual contains instructions relevant to various appliances.

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

1.7. COPYRIGHT

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

1.8. LIABILITY

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 uninformed and untrained personnel.
- 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 protective equipment to be worn by operators, in compliance with the regulations in force in the country of use.

Electrolux Professional SpA declines any liability for 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.

1.9. PERSONAL PROTECTION EQUIPMENT

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

machine's service life.					
	Protective garments	Safety footwear	Gloves	Glasses	Safety helmets
Stage				◎	
Transport					
Handling					
Unpacking					
Assembly					
Normal use					
Adjustments					
Routine cleaning					
Extraordinary cleaning					
Maintenence					
Dismantling					
Scrapping					
Key: PPE REQUIRED					
		1			

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.

1.10. 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.

1.11. 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;
- take care in adopting the personal protective 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. SHIFTING

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 RESPONSIBILITIES

The tasks and works required of the Customer are:

- prearrange a high-sensitivity manual-reset differential thermal-magnetic switch. For information regarding the electrical connection, refer to par. 5.2 "Electrical connection":
- check the flatness of the surface on which the machine is placed.
- a device lockable in the open position for the connection to the power supply.
- connection to a suitable earthing system (par. 5.2.3)
- fit a rapid gas shutoff tap/valve ahead of each appliance.
 Install the tap/valve in an easily accessed place.

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.

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 must be installed separately. The appliances are not suitable for recess-mounting. Leave a space of at least 50 cm on the left side of the appliance for accessing the water recirculating pump. Suitably insulate surfaces that are at distances less than that indicated. Maintain an adequate distance between the appliance and any combustible walls. Do not store or use flammable materials and liquids near the appliance. 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.

Arranging the machine:

- position the machine in the required place;
- adjust the height and levelling with the adjustment feet, also checking correct door closing



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:







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 data plate for the product code. See the installation diagrams for the position of connections on the appliance:

- ELECTRICITY
- WATER SUPPLY
- WATER DRAIN

4.1. BEFORE CONNECTING

 Clean the pipes to remove any dust, dirt or foreign matter which could block the supply.

4.2. ELECTRICAL CONNECTION (Table A).

IMPORTANT! Before connecting, make sure the mains voltage and frequency match that given on the data plate.



ATTENTION!

Work on the electrical systems must only be carried out by a qualified electrician.



Before carrying out any cleaning or maintenance, disconnect the appliance from the power supply and carefully unplug it.

IMPORTANT! Before connecting, make sure:

- the mains voltage and frequency match that given on the data plate and that there is an efficient earth contact.
- the system power supply is properly arranged and able to take the actual current absorption and that it complies with the regulations in force in the country of use;
- a differential thermal-magnetic switch suitable for the absorption specified on the data plate, with contact gap enabling complete disconnection in category III overvoltage conditions and complying with the regulations in force, is installed between the power cable and the electric line.
 For the correct size of the switch, refer to the absorbed current specified on the equipment data plate.
- the mains voltage and frequency match that given on the data plate.
- To access the terminal board just remove the control panel
- Connect the power cable to the terminal block as shown in the wiring diagram attached to the appliance.
- Secure the power cable with the cable gland.

IMPORTANT! The manufacturer declines any liability if the accident-prevention regulations are not respected.

- After making the connection, with the appliance working check that the power supply does not fluctuate by ±10% the rated voltage.
- Installation requires the inclusion of a device lockable in the "open" position during maintenance

4.2.1 POWER CABLE

The power cable must be flexible, having characteristics at least equal to the type with rubber insulation H07RN-F, and be protected by a metal or rigid plastic pipe. Connect the cable to the terminal block as shown in the wiring diagram attached to the appliance, and secure it with the cable glands.

If the power cable is damaged, it must be replaced by the after-sales service or in any case by qualified personnel, in order prevent any risk.

The manufacturer declines any liability for damage or injury resulting from breach of the above rules or non-compliance with the electrical safety regulations in force in the country where the machine is used.

4.2.2 CIRCUIT BREAKER

Install a circuit breaker ahead of the appliance. The contact opening distance and max. leakage current must comply with the regulations in force.

· Appliance max. leakage current is 1 mA/kW

4.2.3. EQUIPOTENTIAL NODE AND EARTH CONNECTION

The appliance must be connected to an efficient earth. There is a screw with symbol "PE" located near the connection terminal block for connecting the earth wire. Connect the appliance to an earth; it must be included in an equipotential node by means of the screw located near the left front foot under the frame. The screw is marked with the symbol $|\nabla|$.

4.3. WATER CONNECTION

The appliance must be supplied with drinking water at a pressure of 1.5 - 2.5 bar.

ATTENTION! If the water pressure is higher than that specified, use a pressure reducer to avoid damaging the appliance. For correct installation, the water inlet pipe must be connected to the mains using a mechanical filter and a shutoff valve. Before connecting the filter, allow a certain amount of water to run in order to clear the pipe of any waste matter.

DRAINING

The drainage water must be removed by means of a suitable receptacle.

VI. INSTRUCTIONS FOR OPERATOR FOR NORMAL MACHINE USE

This appliance is designed and built for use in many applications, but always and only concerning the **washing of fresh vegetables**. Use the appliance in conformity with the technical data.

ATTENTION:

- Never start the vegetable washer without water in the tank.
- The amount of dirtying by chemical contaminants and soil, etc. can vary considerably in green vegetables. For correct use of the vegetable washer, do not wash products that are excessively dirty with such contaminants and soil.
- The vegetable washing process mainly consists of removing the substances (dirt) present on them.

Washing quality mainly depends on the following factors:

- amount of product to be washed (do not exceed the maximum values given in the table);
- · intensity of water recirculation;
- washing time, presence or not of pump activation pauses during washing;
- frequency of tank emptying (partial or total). With average "dirt", the tank should be emptied every 1 or 2 wash cycles.
- Before and after washing, the vegetables must be kept in places having suitable hygienic characteristics.

Description of control panel:

A - MAIN SWITCH

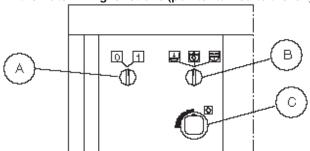
B-WASHING SELECTOR

C - WASHING INTENSITY SELECTOR

1. VEGETABLE WASHER USE

1.1. ACTIVATION

 Make sure the pointer of selector knob B is turned to the water filling functions (pointer turned to the left).



1.2. START

- Turn selector A to the appliance On position (I). In this
 way the water filling solenoid is activated.
- When the max. water level near the overflow (controlled by a pressure switch) is reached, put the vegetables in the tank. Take care to avoid any splashing of water on other persons or equipment nearby.
- Turn selector B to the wash position (pointer vertical). In this way water filling is automatically deactivated.
- With knob "C", adjust the recirculating water flow intensity according to the amount and type of vegetables (light or heavy).
- Leave the vegetable washer activated in this configuration for a suitable time (a few minutes).

1.3. SWITCHING OFF

- To end the washing phase, turn selector knob B to the drain position (pointer to the right). In this way the recirculating pump stops. The vegetables can be removed from the tank after the water has been emptied. To ensure maximum hygiene, wear gloves in non-toxic material when removing the vegetables.
- Repeat the above procedure for a subsequent washing cycle.
- Load per cycle (Kg) and duration in minutes:

	LV200	LV300	Duration	
	Kg	Kg	min.	
light vegetables	8	10	2÷3	
heavy vegetables	30	40	2÷3	

1.4. AT THE END OF SERVICE

- Turn knob "A" to the Off position "0".
- Turn off the electrical switch installed ahead of the appliance.
- Remove the filter from the bottom of the tank and make sure that no clear traces of dirt, soil, etc., remain on the bottom. Otherwise clean the tank bottom using a spray or a moderate amount of water.

VII.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 (sa-

fety 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 electrical 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

4

DANGER

MEANING

DANGER OF ELECTROCUTION (placed on electrical parts with indication of voltage).



ATTENTION!

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

1.2.3. DECOMMISSIONING

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

1.2.4. INSTRUCTIONS REGARDING 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
- or 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 equipment 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 protective 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 ENABLED 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 use of the machine.

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 protective 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. MAINTENANCE PRECAUTIONS

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 rules.

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 some time, take the following precautions:

- Close the taps or main switches ahead of the appliances.
- Go over all the stainless steel surfaces vigorously with a rag moistened with paraffin oil in order to create a protective film.
- Have the appliance checked before using it again.
- To prevent too rapid evaporation of accumulated moisture with consequent breakage of elements, switch electric appliances on at minimum heat for at least 45 minutes before reuse.



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 and grease from the 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, grease 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.

3.6. LIMESCALE

STEEL SURFACES (when necessary)

Remove any limescale (stains or marks) left by hard water on steel surfaces using suitable natural (e.g. vinegar) or chemical detergents (e.g. "STRIPAWAY" produced by ECOLAB).

3.7. OTHER SURFACES

IMPORTANT! With electric appliances, ensure no water comes into contact with electrical parts: water penetration can cause short circuiting and dispersion, tripping the appliance protection devices.

3.8. INTERNAL PARTS (EVERY 6 MONTHS)

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

- · Check the internal parts.
- · Remove any deposits of grime inside the appliance.
- Check and clean the drain system.
- · Remove any bits of vegetables left in the basket or tank.
- Do not use aggressive detergents to clean the machine.
 In particular, do not use chlorine-based products to clean the machine or the floor under it, as substances able to damage its components could form.
- At the end of washing operations, carry out thorough rinsing by activating the appliance and allowing water to flow in order to remove any traces of detergents from the pipes inside it.
- "Sanitise" the appliance with non chlorine-based products (e.g. based on "quaternary ammonium salts" distributed by ECOLAB) after idle periods or treatment of vegetables having substantial amounts of contaminants, always following the product supplier's instructions. Rinse immediately. It is advisable to carry out this operation weekly.

NOTE! In particular ambient conditions (e.g. **intensive** appliance use, salty environment, etc.) it is advisable to carry out the above-mentioned cleaning more often.

3.9. 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.

3.9.1. MAINTENANCE INTERVALS

The inspection and maintenance intervals depend on the actual machine operating 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 service interruptions.

3.9.2. MAINTENANCE FREQUENCY

To ensure the machine's constant efficiency, it is advisable to carry out the checks with the frequency given in the following table:

lowing 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	Voorby		
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 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.

3.8.4. DISMANTLING

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 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, 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.

3.8.5. 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 can be stored temporarily, awaiting treatment for disposal and/or permanent storage. In any case, the current environmental protection laws in the user's country must be observed.

4.2. PROCEDURE REGARDING MACRO-OPERATIONS FOR DISMANTLING THE APPLIANCE

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 equipment must be taken to a specialised collection/scrapping centre. Dismantle the equipment, 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.



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 equipment must be destroyed.

5. ENCLOSED DOCUMENTS

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