

05/2018

Mod: E9/BMA8

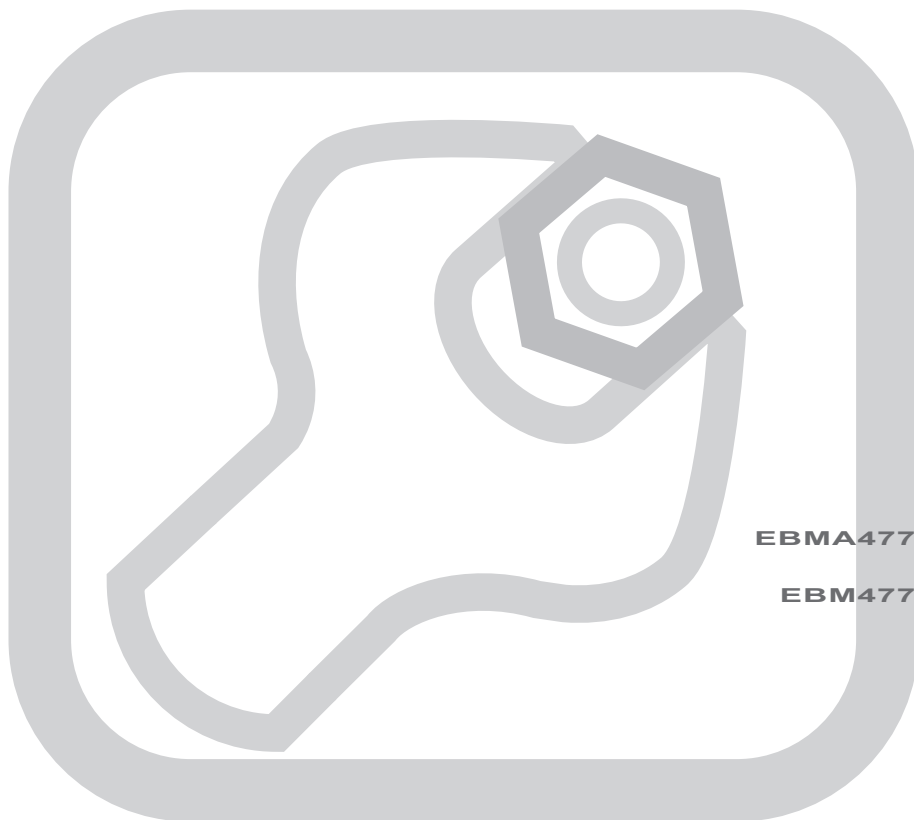
Production code: BBEBMA998



Diamond
catering equipment

**INSTALLATION INSTRUCTIONS
FOR THE USE OF THE SPECIALISED TECHNICIAN**

EN



EBMA477/777

EBM408/908

EBM477/777

**EBMA498/998
EBM498T/998T**

ECC477(C)



GENERAL AND SAFETY INFORMATION

Description of pictograms

	Danger indications Immediate hazardous situation which could result in serious injury or death. Possibly dangerous situation that could cause serious injury or death.
	High voltage! Caution! Danger of death! Non-observance can cause serious injury or death
	Risk of high temperatures, non-compliance may result in serious injury or death.
	Danger of leakage of high-temperature materials, non-observance can cause serious injury or death.
	Danger of crushing of limbs during handling and/or positioning, non-compliance may result in serious injury or death.
 	Prohibition indications Unauthorised persons (including children, disabled individuals and people with limited physical, sensory and mental abilities) are prohibited from performing any procedures. Children being supervised not to play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. Prohibition for the heterogeneous operator to perform any type of operation (maintenance and/or other) that should instead be carried out by a qualified and authorised technician. Prohibition for the homogeneous operator to perform any type of operation (maintenance and/or other) without having first read the entire documentation.
     	Obligation indications Obligation to read the instructions before carrying out any work. Obligation to exclude the power supply upstream of the appliance whenever it is necessary to operate safely. Obligation to use safety goggles. Obligation to use protective gloves. Obligation to use a protective helmet. Obligation to use safety shoes.
	Other indications Indications to implement the correct procedure, non-compliance may cause a dangerous situation.
	Advice and suggestions to ensure the correct usage procedure
	"Homogeneous" Operator (Qualified Technician) Expert operator authorised for handling, transporting, installing, servicing, repairing and scrapping the appliance.
	"Heterogeneous" operator (Operator with limited skills and tasks) Person authorised and employed to operate the appliance with guards active, capable of performing simple tasks.
	Earthing symbol
	Symbol for attachment to the Equipotential system
	Obligation to respect the regulations for waste disposal

THE PRESENT MANUAL IS PROPERTY OF THE MANUFACTURER. ANY REPRODUCTION, EVEN PARTIAL, IS PROHIBITED.

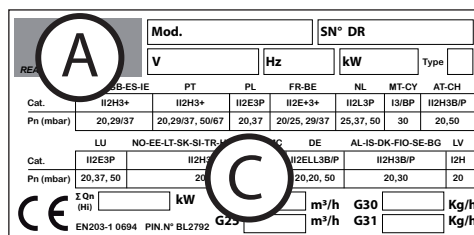
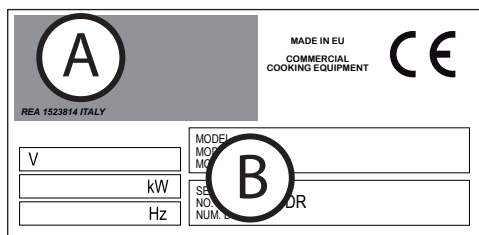
CODICE DEL DOCUMENTO - DOCUMENT CODE - CODE DU DOCUMENT CÓDIGO DEL DOCUMENTO - DOKUMENTNUMMER - CÓDIGO DO DOCUMENTO KOD DOKUMENTU - DOCUMENTCODE - КОД ДОКУМЕНТА:	N° 181723
EDIZIONE - EDITION - EDITION - EDICIÓN - AUSGABE - EDIÇÃO - WYDANIE - EDITIE - РЕДАКЦИЯ:	2018 Rev. 5 - 03/2018
TIPO DI DOCUMENTO - TYPE OF DOCUMENT - TYPE DE DOCUMENT - TIPO DE DOCUMENTO - DOKUMENTTYP - TIPO DE DOCUMENTO - TYP DOKUMENTU - DOCUMENTTYPE - ТИП ДОКУМЕНТА:	M.U.
MODELLO - MODEL - MODÈLE - MODELO - MODELL - модель:	ELETTRICO - ELECTRIC - ELECTRIQUE ELÉCTRICO - ELEKTRISCH - ELÉTRICO ELEKTRYCZNY - ЭЛЕКТРИЧЕСКАЯ
ANNO DI COSTRUZIONE - YEAR OF CONSTRUCTION - ANNÉE DE FABRICATION - AÑO DE FABRICACIÓN - HERSTELLUNGSJAHR - ANO DE FABRICO - ROK PRODUKCJI - BOUWJAAR - ГОД ИЗГОТОВЛЕНИЯ:	2018
CONFORMITÀ - CONFORMITY - CONFORMITÉ - DECLARACIÓN DE CONFORMIDAD - KONFORMITÄT - CONFORMIDADE - ZGODNOŚĆ - CONFORMITEIT - НОРМАТИВНОЕ СООТВЕТСТВИЕ:	CE

Targa di identificazione - Identification plate - Plaque d'identification - Placa de identificación - Typenschild - Placa de identificação - Tabliczka identyfikacyjna - Identificatielabel - Паспортная табличка.

A - Indirizzo Costruttore - Manufacturer's Address - Adresse du Fabricant - Dirección del fabricante - Anschrift des Herstellers - Endereço do fabricante - Adres Producenta - Adres Fabrikant - Адрес изготовителя.

B - Apparecchiatura Elettrica - Electrical Appliance - Appareil Electrique - Sistema eléctrico - Elektrogerät - Aparelhagem elétrica - Urządzenie Elektryczne - Elektrisch Apparaat - Электрооборудование.

C - Apparecchiatura Gas - Gas Appliance - Appareil à Gaz - Sistema de gas - Gasgerät - Aparelhagem a gás - Urządzenie Gazowe - Gasapparaat - Газовое оборудование.



	Regolamento 2016/426/CE Regulation 2016/426 / EC Règlement 2016/426 / CE Reglamento 2016/426 / CE Verordnung 2016/426 / EG Regulamento 2016/426 / CE Verordening 2016/426 / EG Правило 2016/426 / EC Rozporządzenie 2016/426 / WE Förordning 2016/426 / EG Forordning 2016/426 / EF 2016/426 / EK rendelet	Direttiva Bassa Tensione 2014/35/EU Low Voltage Directive 2014/35/EU Directive Basse Tension 2014/35/EU Directiva de baja tensión 2014/35/EU Niederspannungsrichtlinie 2014/35/EU Diretiva baixa tensão 2014/35/EU Dyrektywa Niskonapięciowa 2014/35/EU Richtlijn lage Spanning 2014/35/EU Lavspenningsdirektivet 2014/35/EU Lågspänningsdirektivet 2014/35/EU	Direttiva EMC 2014/30/EU EMC Directive 2014/30/EU Directive EMC 2014/30/EU Directiva EMC 2014/30/EU EMV-Richtlinie 2014/30/EU Diretiva EMC 2014/30/EU Dyrektywa EMC 2014/30/EU EMC Richtlijn 2014/30/EU EMC Direktivet 2014/30/EU EMC direktivet 2014/30/EU	Smaltimento Apparecchiature elettriche ed elettroniche Waste electrical and electronic equipment Démantèlement des Appareils électriques et électroniques Desguace de equipos eléctricos y electrónicos Entsorgung elektrischer und elektronischer Altgeräte Eliminação das aparelhagens elétricas e eletrônicas Utylizacja odpadów elektrycznych i elektronicznych Afgedankte Elektrische en Elektronische Apparaten Avhending av elektriske og elektroniske apparater Avyttring av elektriska och elektroniska produkter
GAS-GÁS-GAZ GAZOWY-GAZ ELETTRICO ELECTRIC ELECTRIQUE ELÉCTRICO ELEKTRISCH ELÉTRICO ELEKTRYCZNY ЭЛЕКТРИЧЕСКАЯ		EN 50366; EN 60335-2; EN 60335-1	EN 55014-1:2006 + A1:2009 + A2:2011 EN55014-2:1997 + A1:2001 + A2:2008 EN61000-3-2:2006 + A1:2009 + A2:2009 EN61000-3-3:2008	DIRETTIVA 2011/65/EU (ROHS II) DIRETTIVA 2012/19/EU (WEEE)

0. DOCUMENT IDENTIFICATION

0.1 STANDARDS OF REFERENCE

1. INFORMATION FOR OPERATORS

Foreword - Purpose of document - How to read the document
Keeping the document - Addressees - Operator training program
Pre-arrangements depending on customer - Contents of supply - Intended use
Allowed operational and environmental conditions - Test inspection and warranty
Authorisation

2. GENERAL SAFETY INFORMATION

General safety indications - Tasks and qualifications - Working areas and dangerous areas - Equipment necessary for installation - Indications concerning residual risks - Operating mode in case of smell of gas in the room

3. POSITIONING AND HANDLING

Obligations/Prohibitions/Advice/Recommendations
Safe handling
Foreword - Handling/Transport - Storage - Package removal - Removal of protection materials - Levelling and fixing - "Series" assembly - Insertion of "optional" terminal

4. CONNECTION TO ENERGY SOURCES

Connection of water supply - Connection to grey water drainage system - Connection to the electrical power supply - Connection to the different electric distribution networks
- Electrical connection of the cable to the terminal board - Connection to "Equipotential" system

5. INSTRUCTIONS FOR USE

Description of stop modes - Stoppage due to faulty operations - Emergency stop
- Stoppage during a work phase - Commissioning -
Daily activation - Daily deactivation - Prolonged deactivation in time

6. MAINTENANCE

Obligations/Prohibitions/Advice/Recommendations
Qualification/Operation/Frequency
Troubleshooting

7. WASTE DISPOSAL

Deactivation and scrapping of appliance

8. TECHNICAL DATA (from page A)

TECHNICAL DATA PAGE - INSTALLATION DIAGRAMS - ELECTRICAL WIRING DIAGRAMS

1. INFORMATION FOR OPERATORS

Foreword

This document has been drawn up in the mother language of the manufacturer (Italian). The information it contains is for the sole use of the operator authorised to use the appliance in question.

Operators must be trained concerning all aspects regarding functioning and safety. Special safety prescriptions (Obligations-Prohibitions-Dangers) are carried in a specific chapter concerning these issues. This document cannot be handed over to third parties to take vision of it without written consent by the manufacturer. The text cannot be used in other publications without the written consent of the manufacturer. The use of: Figures/Images/Drawings/Layouts inside the document, is purely indicative and can undergo variations. The manufacturer reserves the right to modify it, without being obliged to communicate his acts.

Purpose of the document

Every type of interaction between the operator and the appliance during its entire life cycle has been carefully assessed both during designing and while drawing up this document. We therefore hope that this documentation can help to maintain the characteristic efficiency of the appliance. By strictly keeping to the indications it contains, the risk of injuries while working and/or of economical damage is limited to a minimum.

How to read the document

The document is divided into chapters which gather by topics all the information required to use the appliance in a risk-free way. Each chapter is divided into paragraphs; each paragraph can have titled clarifications with subtitles and descriptions.

Keeping the document

This document is an integral part of the initial supply. It must therefore be kept and used appropriately during the entire operational life of the appliance.

Addressees

This document is structured for the exclusive use of the homogeneous operator (Specialised and authorised technician), that is to say, for all the operators authorised to handle, transport, install, service, repair and scrap the appliance. The homogeneous operators should read the service manual, in order to achieve an overall view of the information.

Operator training program

Upon specific demand by the user, a training course can be held for operators in charge of using the appliance, following the modalities provided in the order confirmation.

Depending on the demand, preparation courses can be held at the site of manufacturer or of the user, for:

- Homogeneous operator in charge of electric/electronic maintenance (Specialised technician).
- Homogeneous operator in charge of mechanical maintenance (Specialised technician).
- Generic operator for simple operations (Operator - Final user).

Pre-arrangements depending on customer

Unless different contractual agreements were made, the following normally depend on the customer:

- setting up the rooms (including masonry work, foundations or channelling that could be requested);
- smooth, slip-proof floor;
- pre-arrangement of installation place and installation of equipment respecting the dimensions indicated in the layout (foundation plan);
- pre-arrangement of auxiliary services adequate for requirements of the system (electrical mains, waterworks, gas network, drainage system);
- pre-arrangement of electrical system in compliance with regulatory provisions in force in the place of installation;
- sufficient lighting, in compliance with standards in force in the place of installation;
- safety devices upstream and downstream the energy supply line (residual current devices, equipotential earthing systems, safety valves, etc.) foreseen by legislation in force in the country of installation;
- earthing system in compliance with standards in force;
- pre-arrangement of a water softening system, if needed (see technical details).

Contents of the supply

Appliance

Lid/s

Metallic rack/s

Rack support grid

Pipes and/or wires for connections to energy sources (only when indicated in work order).

The supply may vary depending on the order.

1. INFORMATION FOR OPERATORS

Intended use

Original instructions. This device is intended for professional use. The use of the appliance treated in this document must be considered "Proper Use" if used for cooking or regeneration of goods intended for alimentary use; any other use is to be considered "Improper use" and therefore dangerous. The appliance must be used according to the foreseen conditions stated in the contract within the prescribed capacity limits mentioned in the respective paragraphs.

It is strictly forbidden to use the tilting pan as a fryer.

Allowed operational and environmental conditions

The appliance has been designed to operate only inside rooms within the prescribed technical and capacity limits. The following indications must be observed in order to attain ideal operation and safe work conditions.

The appliance must be installed in a suitable place, namely, one which allows normal running, routine and extraordinary maintenance operations. The operating area for maintenance must be set up in such a way that the safety of the operator is not endangered.

The room must also be provided with the features required for installation, such as:

- maximum relative humidity: 80%;
- minimum cooling water temperature $> + 10\text{ }^{\circ}\text{C}$;
- the floor must be anti-slip, and the positioned appliance must lay perfectly flat;
- the room must be equipped with a ventilation system and lighting as prescribed by standards in force in the country of the user;
- the room must be set up for draining grey water, and must have switches and gate valves which cut all types of supply upstream the appliance when needed;
- The walls/surfaces around the appliance must be fireproof and/or insulated against possible heat sources.

Test inspection and warranty

Testing: the equipment has been tested by the manufacturer during the assembly stages at the site of the production plant. All certificates relating to the testing carried out will be delivered to the customer.

Warranty: The guarantee is of 12 months from invoice date and it covers the faulty parts only. Carriage and installation charges are for the buyer's account. Electric components, accessories as well as other removable parts are not covered by the guarantee.

Labor costs relating to the intervention of authorized by the manufacturer at the customer's premises, for removal of defects under warranty are charged to the dealer, except in cases where the nature of the defect is such that it can be easily removed on site by the customer.

Excluded are all tools and supplies, possibly supplied by the manufacturer together with the machines.

Damage occurred in transit or due to incorrect installation or maintenance can't be considered. Guarantee is not transferable and replacement of parts and appliance is at the final discretion of our company. The manufacturer is responsible for the device in its original setting.

The manufacturer declines all responsibility for improper use, for damages caused as a result of operations not covered in this manual or not authorized in advance by the manufacturer.

The warranty terminates in case of:

- Damage caused by transportation and/or handling. Should this occur, the customer must inform the dealer and carrier via fax or RR and must write what has happened on the copies of the transportation documents. The specialised technician installing the appliance will assess whether it can be installed depending on the damage. The warranty also terminates in the presence of:
- Damage caused by incorrect installation;
- Damage caused by parts worn due to improper use;
- Damage caused by use of not recommended or non-original spare parts;
- Damage caused by incorrect maintenance and/or lack of maintenance;
- Damage caused by failure to comply with the procedures described in this document.

Authorisation

Authorisation refers to the permission to operate an activity intrinsic to the appliance.

Authorisation is given to anyone who is responsible for the appliance (manufacturer, purchaser, signer, dealer and/or location owner).

2. GENERAL AND SAFETY INFORMATION

General safety indications

	Each technical modification affects the machine functioning or safety, therefore, it must be carried out by the manufacturer technical staff or by technicians who has been formally authorized by the same manufacturer. Otherwise, the manufacturer refuses all responsibility concerning modifications or damages which could be consequently rise.
	On arrival of the delivery, check the integrity of the appliance and of its components (eg. Supply cable), before use, if any fault should arise, do not start the appliance and contact the nearest customer service.
	Before performing the connections check the technical data mentioned on the appliance plate, as well as the technical data mentioned on this manual.
	On the supply lines (Electrical-Water-Gas) upstream the machine, install interlock devices which cut out the supply each time the user must operate in safe conditions.
	Connect the appliance, in order, to the waterworks and to the drainage system, then to the gas network, make sure there are no leaks then go on with the connections to the electric network.
	The appliance has not been designed for the operation in an explosive atmosphere, therefore it mustn't absolutely be installed and used in such environments.
	Position the whole structure following the installation characteristics mentioned in the specific chapters of this manual.
	Note! • The equipment has not been designed for an embedding installation. • The equipment must operate in thoroughly ventilated rooms. • The equipment drains must be free (not obstructed or blocked by foreign matters).
	The gas appliance must be placed under a suction hood, which system must be endowed with the technical features complying with the standards in force in the country of the user.
	Once the equipment has been connected to the energy and drain sources, it must remain static (not movable) in the area which has been foreseen for use and maintenance. An improper connection may give rise to a dangerous situation.
	If necessary, for the connection to the electrical line use a flexible cable which characteristics comply with those of the cable with rubber insulation, model H07RN-F. The supply voltage supported by the cable, with the appliance on, must not diverge from the rated voltage value $\pm 15\%$, mentioned at the bottom of the technical data table.
	The equipment must be included in an "Equipotential" earth unload system.
	The appliance drain must be conveyed into the grey water drainage system, with a "spigot and socket" pipe with no trap.
	The equipment must be used only for the indicated purposes. Any other use must be considered as "IMPROPER" and therefore the manufacturer refuses all responsibility for possible consequent damages to persons or things.
	Special safety prescriptions (Obligations-Prohibitions-Dangers) are mentioned in detail in a specific chapter concerning these issues.
	Do not obstruct the heat extraction and/or dissipation openings.

2. GENERAL AND SAFETY INFORMATION

Tasks and qualifications required for the operators

	“Homogeneous” Operator (SKILLED OPERATOR) Learned operator, authorized to carry out the handling, transport, installation, maintenance, repair and demolition of the equipment.
	The homogeneous operator can not carry out any type of operation (installation, maintenance and/or other) without having first examined the whole documentation.
	The information reported in this manual must be used only by the qualified technical operator, authorized to perform: handling, installation and maintenance of the equipments in hand.
	The technical operators must be trained in all the aspects concerning functioning and safety. The technical operators must interact following all required safety rules.

Working zones and dangerous zones

The following classification has been established for a better definition of the intervention field and of the corresponding working zones:

- Dangerous zones: any zone inside and/or near a machine, where the presence of an exposed person represents a risk for the safety and health of said person.
- Exposed person: any person completely or partly in a dangerous zone.

	During operation, keep a minimum distance from the appliance, in order not to jeopardize the operator safety if anything unexpected should happen.
	The generic operator must have gone through this document. Such operator is not authorized in any case to perform check or maintenance operations pertaining to skilled and authorized personnel (Homogeneous operator).

The dangerous zones are also:

- All the working areas inside the machine
- All the areas protected by special protection and safety systems, such as photocells photoelectric barriers, protection panel, interlocked doors, protection guard.
- All the zoned inside control units, electrical panels and connector blocks.
- All zones around the functioning machine, when the minimum safety distances are not complied with.

Equipment necessary for installation

For the correct execution of the installation operations, the authorized technical operator must provide himself with the tools provided, such as:

3 and 8 mm slot screwdriver	Gas leaks detector.	Tools for gas use (pipes, gaskets etc.)
Fixed spanners from 7 mm to 24 mm	Tools for electrical use (cables, terminal boards, industrial outlets etc.)	Tools for water use (pipes, gaskets etc.)
Electrician shears	Self-locking pliers	Kit for gas type changeover, supplied from the manufacturer

	In addition to the tools indicated, a device for the equipment lifting will also be necessary: it must comply with all the in force standards concerning the hoisting equipments.
---	---

Indications concerning residual risks

Though the rules for "good manufacturing practice" and the provisions of law which regulate manufacturing and marketing of the product have been implemented, "residual risks" still remain which, due to the very nature of the appliance, could not be eliminated. These risks include:

	Residual risk of electrocution: This risk remains when intervening on live electrical and/or electronic devices.
	Residual risk of burning: This risk remains when unintentionally coming into contact with materials at high temperatures.
	Residual risk of burning for spillage of material: This risk remains when unintentionally coming into contact with materials being spilled at high temperatures. Containers too full of liquids, or solids, changing their state while they are being heated (from a solid state to a liquid state), if incorrectly used, can cause burning. During processing phase, the containers being used must be placed on clearly visible levels.
	Residual risk of limb crushing: This risk remains when unintentionally coming into contact with any part being positioned, transported, stored, assembled.

Obligations - Prohibitions - Suggestions - Recommendations

	On reception, open the packaging and make sure that the appliance and accessories have not been damaged during transportation. If damage is found, report it promptly to the carrier and do not install the appliance. Contact qualified and authorised personnel to report the problem detected. The manufacturer is not liable for damage caused during transportation
	Prohibition for unauthorised personnel to perform any interventions (included children, disabled and persons with limited physical, sensory and mental skills).
	Read the instructions before performing any type of operation.
	Wear a protection outfit, suitable to the operations to be performed. For what concerns the personal protection devices, the European Community has issued the directives which the operators must follow.
	Absolute prohibition to damage or remove the plates and pictograms applied to the machine.
	Interrupt every form of supply (electrical - gas - water) upstream the machine each time it's necessary to operate in safety conditions.
	Do not leave objects or inflammable material next to the machine.
	Special safety prescriptions (Obligations-Prohibitions-Dangers) are mentioned in detail in a specific chapter concerning these issues.

Safe handling

	The noncompliance with the instructions described below exposes the operator to the danger of serious injuries.
	Installation operations must be performed by qualified and authorized technical operators, in keeping with the in force standards concerning this issue, using the suitable materials described here.
	Wear personal protection clothing, which must comply with the requirements of the EC directive concerning the individual protection devices.
	The operator authorized to appliance handling and installation operations must arrange, if necessary, a "safety plan", in order to safeguard the safety of the persons involved in the operations. Moreover, the operator must keep to and strictly and scrupulously apply the laws and standards concerning mobile yards.
	Make sure that the employed lifting means have a carrying capacity suitable to the loads to be lifted and that they are kept in good conditions.
	Perform handling operations using lifting means with a carrying capacity suitable to the appliance weight, increased by the 20%.
	Follow the indications written on the package and/or on the same appliance before going on with the handling.
	Check the barycentre of the load before lifting the appliance.
	Lift the appliance from the floor, enough to allow its handling.
	Do not wait or pass under the equipment while it is being lifted and handled.

Foreword

Depending on the cases, the appliance is shipped in the following configuration:

1. Blocked on the wooden base, with lining in a material suitable for packaging (detail A).

The type of packaging is chosen according to transport distance, to the customer prescriptions and to how long the appliance will remain in the package.

The following data will be applied on the package:

- destination
- possible codes
- safety pictograms
- instruction pictograms

The machines can be transported with two means:

- with truck
- with container.

The same type of package is foreseen in both cases.

Handling - Transport

	The packed appliance must be positioned in order to keep to the indications given in the pictograms and in the writings on the package outer wrap.
	Do not wait or pass under the equipment while it is being lifted and handled. The noncompliance with these instructions exposes the operator to the danger of serious injuries.

- Position the hoisting equipment: take care to the barycentre of the load to be lifted (detail B - C).
- Lift the appliance enough to allow its handling.
- Position the appliance in its standing place.

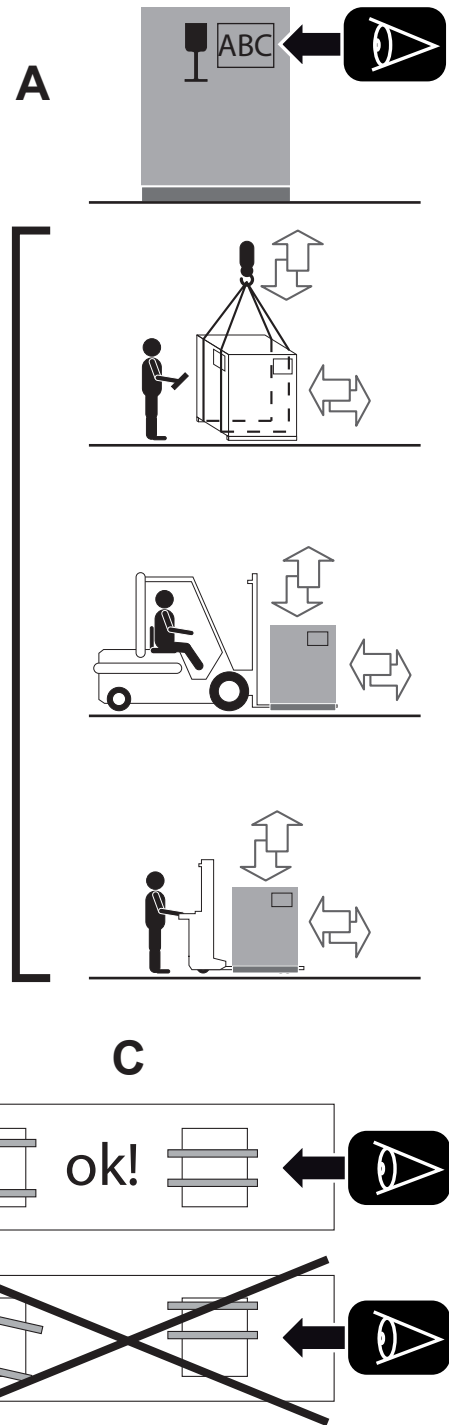
Storage

Material storage methods must envisage pallets, containers, conveyors, vehicles, lifting tools and devices, which can prevent any damage caused by vibrations, bumps, abrasions, corrosions, temperature or any other possible conditions.

The stored parts must be checked periodically to identify any possible damage.

Package removal

	The addressee is in charge of the disposal of the packing materials, which must be eliminated according to the laws in force in the appliance installation country.
	1. Remove the protection angle bars, first the upper and then the lateral ones; 2. Removed the protective material used for the package. 3. Lift the appliance at the necessary height and remove the base; 4. Position the appliance on the floor. 5. Remove the means used to lift the appliance. 6. Clear the operating area from all the material that has been removed.
	Once the packaged has been removed, the appliance must appear free of tampering, dents or other defects. Otherwise, immediately inform the assistance service.



Removal of protection materials

The outer surfaces of the appliance are protected by a coating of adhesive film, which must be manually removed once positioning phase is over.

Clean the appliance manually removing all the material used to protect its parts.

	Make sure not to damage the stainless steel surfaces, and remember especially not to use corrosive products, abrasive material or sharp tools.
	Do not clean the appliance with pressurized and/or direct water jets.
	Do not use aggressive materials such as solvents to clean the appliance. Carefully read the indications on the label of the detergent products being used, wear a protective equipment suitable to the operations to be carried out (See protection means indicated on the label of the packaging)
	Rinse the surfaces with tap water and dry them with an absorbent cloth or other non abrasive material.

Levelling and fixing

Position in the working area (see allowed operational and environmental conditions), with the different equipments already made suitable.

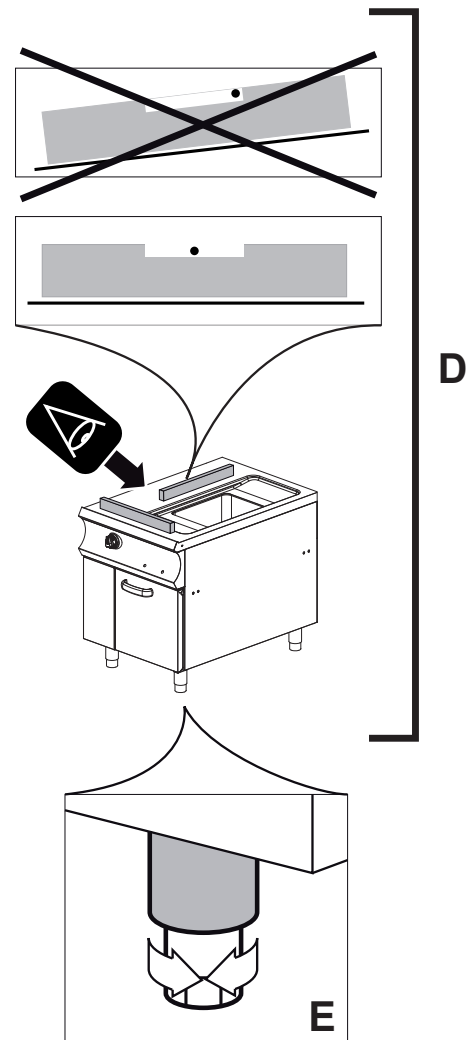
Levelling and fixing envisage: the equipment adjustment as an individual independent unit or, if foreseen, its fixing in a "series".

	The series positioning sequence for the different equipments is strictly connected to the purchaser (user) requirements.
---	--

Position a level on the structure (detail D).

Adjust the levelling feet (detail E) according to the indications shown by the level.

	The appliance is perfectly levelled when level and feet are adjusted on the same width and depth of the appliance.
---	--



“Series” assembly

Remove the knobs and unscrew the screws for the fixing of the panel on both appliances (detail F).



The minimum distance of the appliance from the wall must be 10 cm, if this should be lower, the walls immediately close to the appliance should be insulated with fire-retardant and/or insulating treatments.

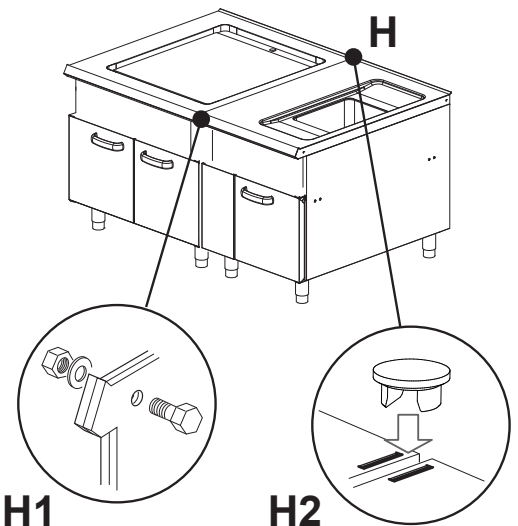
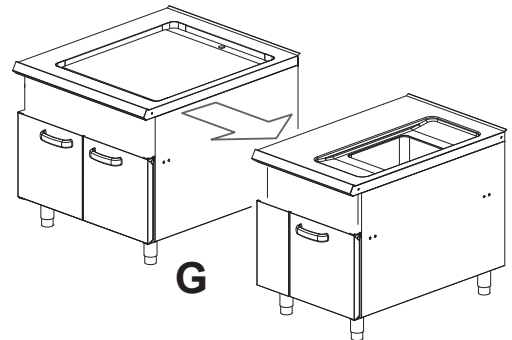
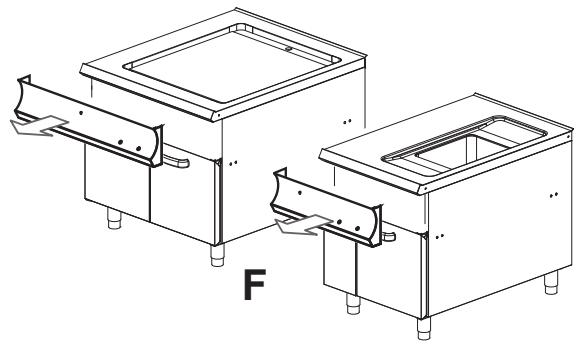
Place the equipments in order to make their sides perfectly adhere (detail G).

Carry out the appliance levelling as previously described (detail E).

Introduce the fixing screws in their housings and block the two structures with the locking nuts (detail H1).

Introduce the supplied fixing cap between the two appliances (detail H2)

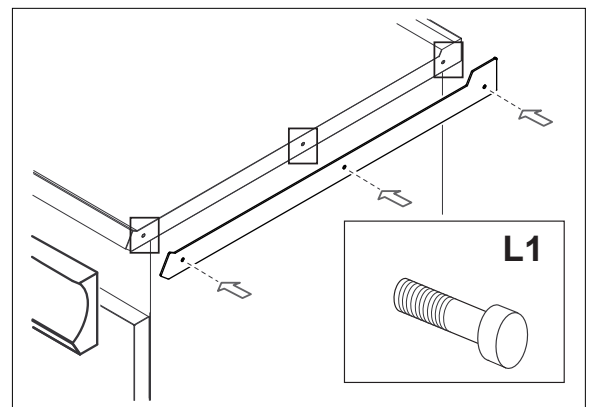
If necessary, repeat levelling and fixing operation sequence for the remaining equipments.



Introduction of terminal (optional)

In order to introduce the terminal, position it and fix it with the equipped screws provided (detail L1).

Once the described operations have been carried out, position again the panels and knobs of the different appliances in the respective housings.



4. CONNECTION TO ENERGY SOURCES

Connection of water supply

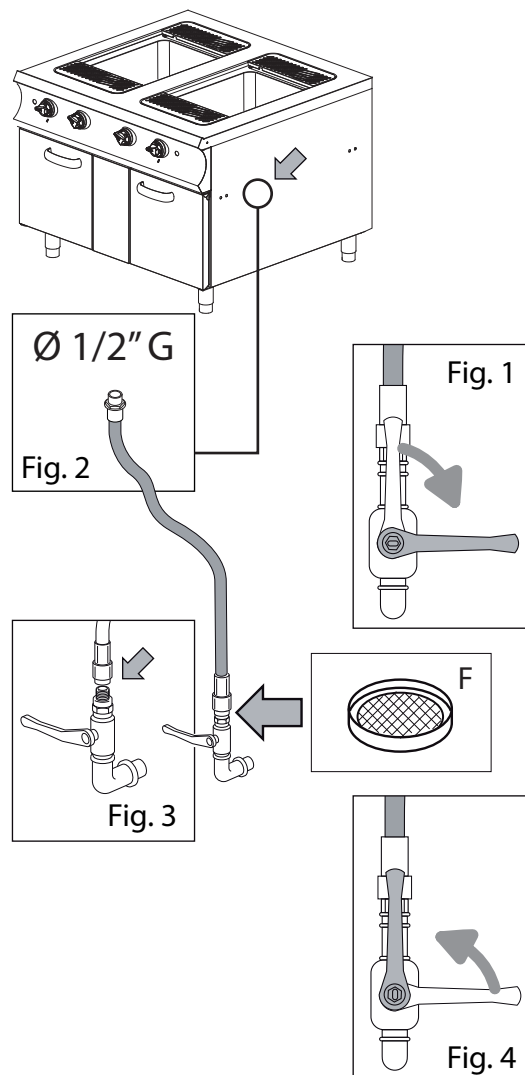
Make sure these conditions are satisfied to obtain a correct installation:

1. The equipment must be supplied with tap water with a working pressure included from 200 kPa up to 400 kPa and it must also ensure a minimum flow rate of 1.5 l/min.
2. The water entry pipe must be connected to the distribution network through a cutoff cock (easily recognizable and accessible by the operator) that must be closed when the appliance is not working or during maintenance interventions (Fig. 1).
3. Install a mechanical filter between the cutoff cock and the appliance connection pipe, in order to prevent the introduction of any ferrous dross, which oxidize, and which therefore could corrode and with time cause the oxidation of the tank.



Before connecting the last section of the connection piping, it would be better to leave a certain amount of water drain away, in order to drain the pipe from any ferrous dross.

- Connect an edge of the supply pipe to the appliance connection (Fig.2);
- Connect the opposite edge of the pipe, equipped with filter, to the cutoff cock (Fig. 3-3F).
- Open the cutoff cock and make a visual check of the connection seal (Fig.4).



Connection to grey water drainage system

A correct installation requires the following conditions:

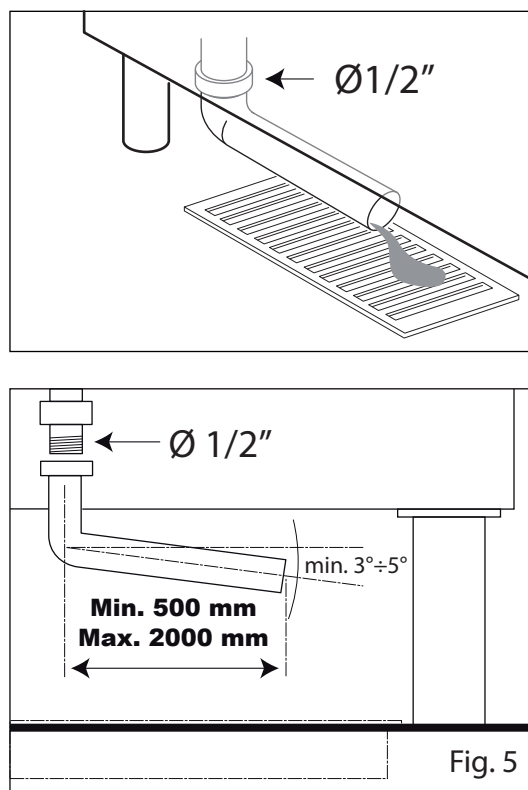
1. The connection to the drain into the system must be "OPEN, WITH NO TRAP" and the material for pipe fitting and containment must support high temperatures of approximately 70°C in the appliance outlet area.
2. To perform a correct disposal of the waters in the drainage system, make sure there are no obstructions and no type of hindrances on the whole line length.
3. Check the correct inclination of the device for grey water containment and downflow. The device must let the grey water easily drain away into the system drain.



Increase the angle of incidence (from 3° to 5° approximately) of the drain into the system whenever any backwater occurs.)

- Connect an edge of the drain pipe to the appliance connection;
- Convey the opposite edge of the pipe to the open drain (with no trap).
- Make a visual check of the connection seal and of the drain water downflow.

See schematic drawing (Fig. 5).



Connection to the electrical power supply



On the electrical supply line upstream the appliance, install an interlock device which cut out the supply each time the user must operate in safe conditions, for example:

- manual switch with suitable power, equipped with fuse valves
- automatic switch with corresponding circuit breaker relays and residual current device.



Obligation to interrupt the electrical input upstream the appliance each time it's necessary to operate in safety conditions (Fig. 6).

Electrical connection should be performed in compliance with the IEC regulations, only by authorised and competent per-sonnel. In the first instance, examine the data shown on the technical data table of this manual, on the serial plate and on the electrical diagram. The envisaged connection is of the fixed type.



Ahead of each unit it is necessary to install an omnipolar main breaker, having a spacing among contacts of at least 3mm; example:

- manual breaker of appropriate capacity, complete with fuse valves
- automatic breaker with respective magnetothermal relays.

Earthing

It is essential to earth the unit. To this purpose, it is necessary to connect to an efficient earthing system the terminals marked with the symbols placed on the line-receiving terminal box. The earthing system should comply with the law in force.

Specific warnings

The electrical safety of this unit is assured only when it is correctly connected to an efficient earthing system as stated in the electrical safety regulations in force; the Manufacturer declines any responsibility for the non-compliance with these safety regulations. It is necessary to verify this fundamental safety requisite and, in case of doubt, ask for an accurate testing of the system by professionally qualified personnel. The Manufacturer cannot be deemed responsible for any damages caused by the lack of unit earthing.



Never interrupt the earth wire (Yellow-Green).

Connection to the different electric distribution networks

On delivery, the appliances must work at the voltage indicated in the diagram below. Any other connection is to be considered improper and therefore dangerous.



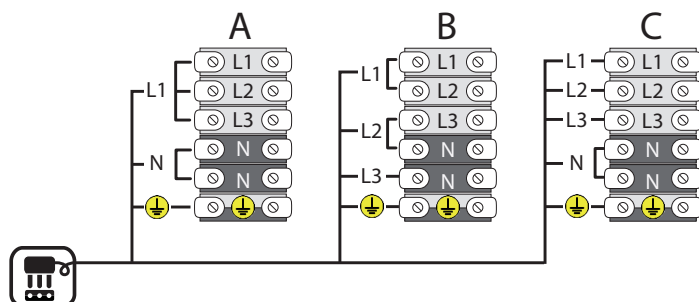
It is absolutely forbidden to change and/or modify the wiring harness configured by the manufacturer, shown on the product identification plate.



A connection with a wiring harness different from that indicated must be authorized by the manufacturer.

Electrical connection of the cable to the terminal board

Connect the supply cable to the terminal board as described in: "Connection to the electrical power supply". The diagram and the table (see sect. 7 - Technical characteristics) indicate the possible connections according to the mains voltage.



A: PHASES: 220/240 V ~ 1N 50-60 Hz

**B: PHASES: 220/240 V ~ 3 50-60 Hz /
380/415 V ~ 3 50-60 Hz**

C: PHASES: 380/415 V ~ 3N 50-60 Hz

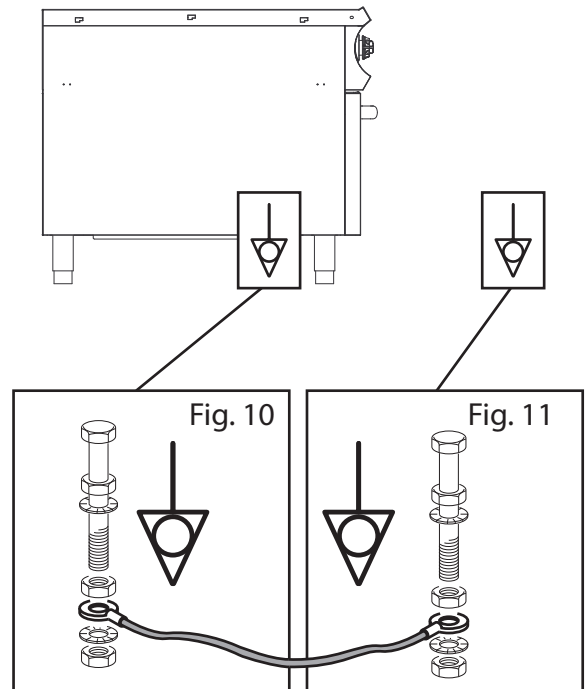
4. CONNECTION TO ENERGY SOURCES

Connection to “Equipotential” system

The protective earthing consists of a series of contrivances, which ensure the same earth potential in the electrical earths, thus preventing the same earths from being tensioned. The earthing has the aim to ensure that the earths of the household appliances have the same potential of the earth. Earthing also makes the automatic intervention of the residual current device easier.

Protection earthing involves not only the electrical system, but also all the other systems and metallic parts of the building, including piping, beams, heating system and so on, so that the whole building turns out to be under safety conditions, also in case a lightning should hit the building.

	Obligation to interrupt the electrical input upstream the appliance each time it's necessary to operate in safety conditions.
	The appliance must be included in an "Equipotential" system, which efficiency must be tested, according to the rules in force in the installation country.
	The electrician preparing the general electrical system must guarantee a system in conformity with the regulations, for what concerns the direct and indirect contacts.
	The electrician must connect all the different earths to the same potential, in order to achieve a good "Equipotential" earthing system in the area where the different appliances will be installed.
	For what concerns the connection of the appliance to the room Equipotential system, use an electrical yellow/green cable, suitable to the power of the devices installed.



The appliance plate “Equipotential” is usually on its panel, near the system used for the connection; carry out the connection after having recognized the same plate (see schematic drawing for the correct location).

- Connect an edge of the earth electric cable (the cable must be characterized by the double colour yellow/green) to the system used for the appliance “Equipotential” connection (see schematic drawing Fig. 10).
- Connect the opposite edge of the earth electrical cable to the system used for the “Equipotential” connection of the area where the appliance will be installed (Fig. 11).

5. INSTRUCTIONS FOR USE

Description of stop modes

	In stoppage conditions caused by faults and emergencies, in the event of imminent danger, it is mandatory to close all the locking devices on the supply lines upstream the appliance (Electrical-Water-Gas).
	The drawing illustrates the various positions the knobs take on during an emergency stop (A1-B1-C1-D1-E1) and stoppage during a working phase (A2-B2-C2-D2-E2).

Stoppage due to faulty operations

Safety component

Standard supply with following models:

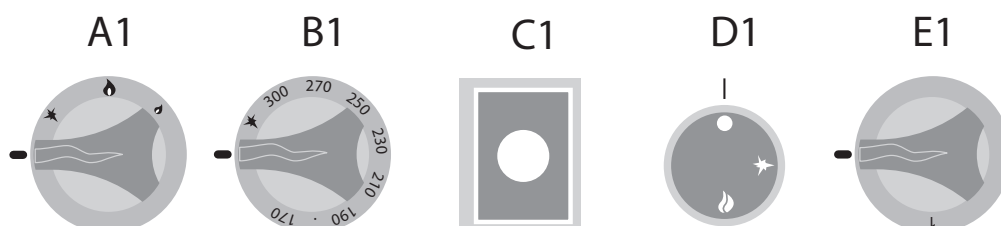
- Fryer (present on all models)
- Tilting Pan (present on all models)
- Pot (present on all models)
- Pasta cooker (present on all models)
- Stove (present on all models with electric oven. Only for 900-980: present on all models with standard electric oven)
- Frytop present on all electric models (only for 900-980)
- Lava stone (not present)
- Bain-marie (not present)
- Solid top (only for 900-980: present on all models with standard gas oven)
- Induction (present on all models)

Stop: In situations or circumstances which can be dangerous, a safety thermostat is triggered, automatically stopping heat generation. The production cycle is interrupted until the cause of the fault is resolved.

Restarting: After the problem that triggered the safety thermostat is resolved, the authorised technician can restart the appliance by means of the specific controls.

Emergency stop

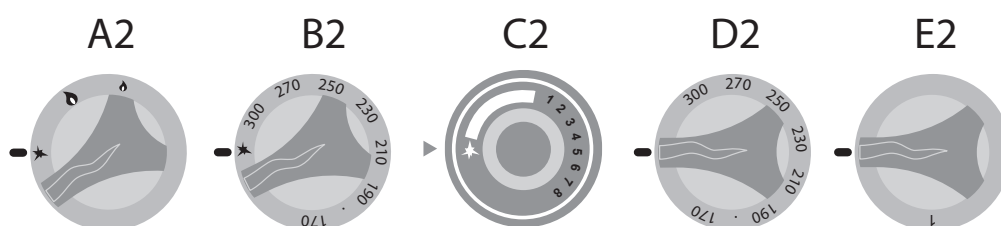
In situations or circumstances which can be dangerous, turn the knob to “Zero” depending on the model (A-B-C-D-E-1). See knobs, keys and indicator light modes and functions.



Stoppage during a work phase

In situations or circumstances which require temporary stop of heat generation, act as follows:

- Gas Appliance: Turn the knobs to the piezoelectric position (A-B-C-2), the pilot flame remains lit as the gas flow in the burner is not interrupted.
 - Electric Appliance: Turn the knobs “D2-E2” to “Zero” to stop heat generation.
- (See knobs, keys and indicator light modes and functions).



5. INSTRUCTIONS FOR USE

Commissioning



When commissioning the appliance and when starting it after a prolonged stop, it must be thoroughly cleaned to eliminate all residue of extraneous material (See Routine Maintenance).

When the operations have been successfully performed, go on with the ordinary use of the appliance, see "Daily activation".

Daily activation

1. Open the network locks upstream the appliance (Gas - Water - Electric).
2. Make sure that the water drain (if present) is not clogged.
3. Make sure that the room local exhaust system works properly
4. Check the cleanliness and hygiene of the appliance.

When the operations have been successfully performed, go on with "Start for cooking" operations, described in the use manual: operating instructions issued for each appliance.

Daily deactivation

Perform the operations according to the procedure described for each appliance.
Once the above mentioned operations for each appliance are over, it is necessary to:

1. Close the network locks upstream the appliance (Gas - Water - Electric).
2. Make sure that the drain cocks (if present) are positioned to "Close".
3. Check the cleanliness and hygiene of the appliance see "Cleaning".

Prolonged deactivation in time

In the event of prolonged inactivity, carry out all the procedures described for the daily deactivation and protect the parts mostly exposed to oxidation as described in "Maintenance" chapter.



If the appliance is connected to a flue, the exhaust pipe must be cleaned according to that foreseen by specific regulatory provisions of the country (contact your installer for information).



To make sure that the appliance is in perfect technical conditions, have it serviced at least once a year by an authorised technician of the assistance service.

	Obligations - Prohibitions - Suggestions - Recommendations Before performing any of the cleaning operations described hereafter, the operator must have had a look at the whole document, carefully read: • General and safety warnings • Indications concerning residual risks • Safety for a correct use • Safety for the appliance cleaning Prohibition for unauthorised personnel to perform any interventions (included children, disabled and persons with limited physical, sensory and mental skills). Prohibition for generic operators to perform operations reserved for qualified and authorised technicians.
	If the appliance is connected to a flue, the exhaust pipe must be cleaned according to what foreseen by specific regulatory provisions of the country (Contact your installer for information).
	To make sure that the appliance is in perfect technical conditions, have it serviced at least once a year by an authorised technician of the assistance service.
	Filth deposit built up near heat sources can burn during normal use of the appliance and create dangerous situations. The appliance must be cleaned regularly and every incrustation and/or food deposit removed.
	In order to eliminate every residual of moisture on the electrical plates, to ward off any early wear, once routine cleaning operations are over, switch the appliance on, make it work for approximately 10' and switch it off.
	Whenever you access the cooking area, always remember that the danger of being burnt persists. It is therefore mandatory to take appropriate measures for personal protection.
	Disconnect electrical power upstream the appliance whenever you need to work in safe conditions to perform cleaning or maintenance.
	Wear a protection outfit, suitable to the operations to be performed. For what concerns the personal protection devices, the European Community has issued the directives which the operators must follow.
	The appliance is used to prepare food products. Keep the appliance and the surrounding area constantly clean. Failure to keep the appliance in ideal hygienic conditions could cause it to deteriorate quickly and create dangerous situations.
	The chemical effect of salt and/or vinegar or other acid substances can in the long run cause the inside of the cooking compartment to corrode during cooking. At the end of the cooking cycle of such substances, the appliance must be washed thoroughly with detergent, abundantly rinsed and carefully dried.
	The liquid detergent for cleaning the cooking compartment must have certain chemical features: pH higher than 12, without chlorides/ammonia, viscosity and density similar to water. Use non-aggressive products for cleaning the inside and outside of the appliance (Use detergents on the market for cleaning steel, glass and enamel).
	Carefully read the indications on the label of the products being used, wear a protective equipment suitable to the operations to be carried out (See protection means indicated on the label of the packaging)
	Make sure not to damage the stainless steel surfaces, and remember especially not to use corrosive products, abrasive material or sharp tools.
	Do not clean the appliance with pressurized and/or direct water jets.
	Rinse the surfaces with tap water and dry them with an absorbent cloth or other non abrasive material.
	In the event of prolonged inactivity, besides disconnecting the supply lines, you must thoroughly clean all the inside and outside parts of the appliance.

6. MAINTENANCE

Qualification - Operation - Frequency



“Generic” Operator

Person authorised and in charge of appliance operation with active guards and capable of performing simple tasks.



“Homogeneous” Operator

Learned operator, authorized to carry out the handling, transport, installation, maintenance, repair and demolition of the equipment.



Cleaning at commissioning

Upon arrival after installation



Cleaning appliance

Daily



Cleaning parts in contact with foodstuff

Daily



Checking thermostat

Yearly



If the supply cable should be damaged, contact authorized customer service for replacement



Should a problem occur, the generic operator performs the first search and, if qualified, eliminates the cause of the problem and restores the appliance correct operation.



If the problem cannot be resolved, turn the appliance off, disconnect it from the electrical mains and shut all the supply valves. Then contact authorized customer service.



The authorized maintenance technician intervenes when the generic operator was not able to pinpoint the cause of the problem, or whenever restoration of correct operation of the appliance entails executing operations for which the generic operator is not qualified.

6. MAINTENANCE

Troubleshooting



Notes! Whenever the appliance does not work properly, try to solve the less serious problems using this table.

FAULT	POSSIBLE CAUSE	OPERATION
The appliance does not turn on.	• The master switch is not connected. • The residual current device or circuit breaker has tripped.	• Connect the master switch. • Restore the residual current device and/or circuit breaker.
Water is not delivered to tank.	• Waterwork gate valve is closed.	• Open waterwork gate valve.
Water does not drain from the cooking compartment.	• The drain is clogged.	• Clean the drain filter. • Free the drain from any residues.
The inner walls of the tank are covered with limestone.	The water is too hard; the softener is finished.	• Connect the appliance to a water softener. • Regenerate the water softener. • Descale the cooking compartment.
The cooking compartment is stained.	• Quality of the water. • Ineffective detergent. • Insufficient rinsing.	• Filter the water (see water softener). • Use the recommended detergent. • Rinse once again.
The light indicators do not turn on.	• The master switch is not connected. • The residual current device or circuit breaker has tripped	• Connect the master switch • Restore the residual current device and/or circuit breaker



Notes! If the problem cannot be resolved, turn the appliance off, and shut all the supply valves. Then contact authorized customer service.



Deactivation and scrapping of appliance



OBLIGATION OF DISPOSING OF MATERIALS USING THE LEGISLATIVE PROCEDURE IN FORCE IN THE COUNTRY WHERE THE APPLIANCE IS SCRAPPED

In compliance with Directives (see Section n. 0.1) relating to the reduction of use of hazardous substances in electrical and electronic equipment, as well as waste disposal. The symbol of the barred waste bin carried on the appliance or its packaging indicates that the product at the end of its useful life must be disposed of separately from other waste.

Differentiated waste collection of this appliance at the end of its life is organised and implemented by the manufacturer. The user who wishes to get rid of this appliance must contact the manufacturer and follow the instructions received to separately dispose of the appliance at the end of its life.

An appropriate collection and dispatching of exhausted appliances to environmentally compatible recycling, treatment and disposal plants helps to prevent damaging effects on health and environment and also guarantees that the component parts of exhausted appliances are effectively recycled and/or reused. Holders of exhausted appliances who dispose of them illegally will be prosecuted according to the in force standards.



Appliance deactivation and scrapping are entrusted to skilled electrical and mechanical personnel, who must wear the individual protection devices provided, such as clothing with characteristics suitable to the operations to be performed, protective gloves, accident prevention shoes, helmets and goggles.



Before starting disassembly, create a space around the appliance, wide and tidy enough to allow the operator movements in safety conditions.

It is necessary to:

- Clear the electric network.
- Disconnect the appliance from the electric network.
- Remove the appliance exit electrical cables.
- Close water entry cock (network valve) from the waterworks.
- Disconnect and remove the waterworks' pipes from the appliance.
- Disconnect and remove the pipe for grey water drain exit.



After disassembly, there could be a wet area around the appliance, therefore, dry these zones before proceeding further.

When the operating area has been reset through this procedure, it is necessary to:

- Remove the protection panels.
- Strip down the appliance in its main parts.
- Separate the appliance parts according to their typology (eg. metallic materials, electric materials etc.) and dispatch them to waste separation centres.



REMARKS



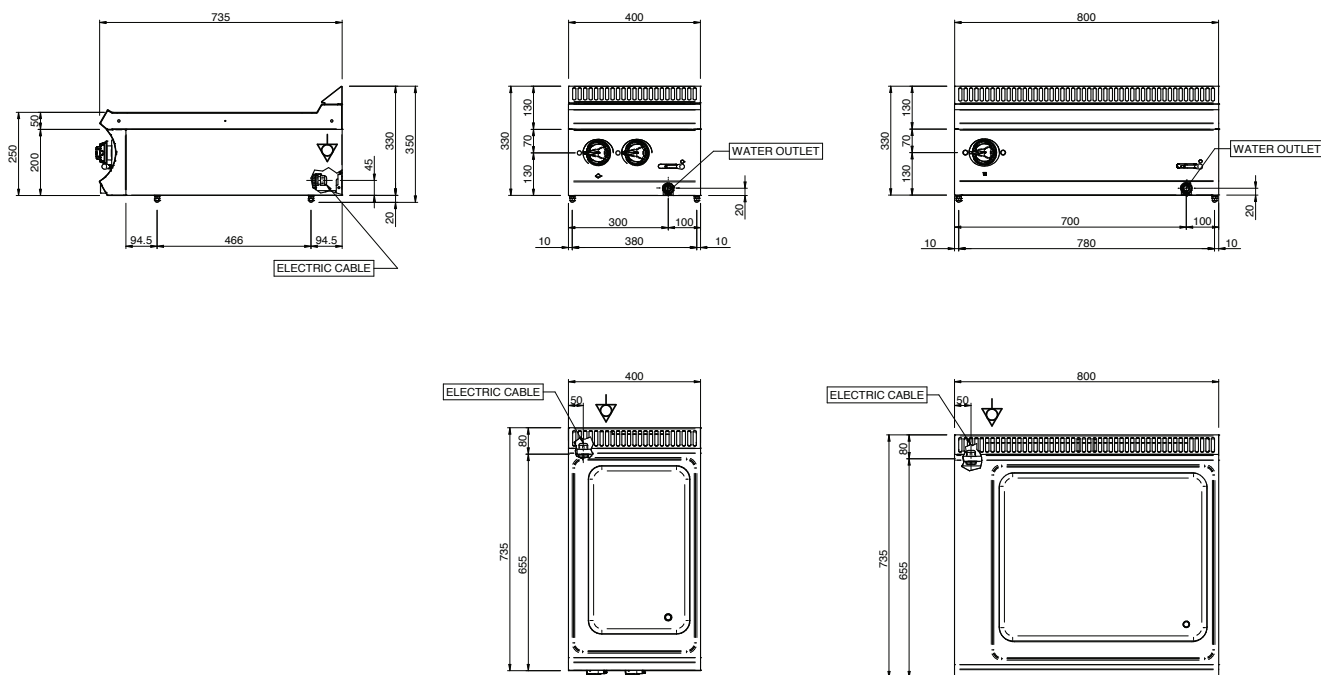


DATI TECNICI - TECHNICAL DATA - DONNEES TECHNIQUES - DATOS TÉCNICOS -
TECHNISCHE DATEN

MODELL	Abmessun- gen (cm)	Dimensions tank (l)	Tank capacity	Leistung (kW)	Speisung Typ		Speisung Typ		Gewicht (kg)	
					220/240 V ~ 1N 50-60 Hz		380/415 V ~ 3N 50-60 Hz			
					Max A/F	Kabelanzahl x mm²	Max A/F	Kabelanzahl x mm²		
MODEL	Dimensions (cm)	Dimensions tank (l)	Tank capacity	Power (kW)	Power supply		Power supply		Weighth (kg)	
					220/240 V ~ 1N 50-60 Hz		380/415 V ~ 3N 50-60 Hz			
					Ass A/F	n. cables x mm²	Ass A/F	n. cables x mm²		
AUF SCHRANK / ON CABINET										
	EBMA477	40x73x85	31x51x16	GN 1/1	1.5	6,5	3 x 1,5	-	-	34
	EBMA777	70x73x85	63x51x16	GN 2/1	3	13	5 x 1,5	-	-	50
	EBM(A)4..8	40x90x85	31x69x16	GN 4/3	2.5	11	3 x 1,5	-	-	45
	EBM(A)9..8	80x90x85	63x69x16	GN 8/3	6	-	-	8,7	5 x 1,5	68
TOP										
	EBM477	40x73x25	31x51x16	GN 1/1	1.5	6,5	3 x 1,5	-	-	20
	EBM777	70x73x25	63x51x16	GN 2/1	3	13	5 x 1,5	-	-	30
	EBM498T	40x90x25	31x69x16	GN 4/3	2.5	11	3 x 1,5	-	-	36
	EBM998T	80x90x25	63x69x16	GN 8/3	6	-	-	8,7	5 x 1,5	50
	ECC477	40x73x25	31x51x16	-	0.35	1,5	3 x 1,5	-	-	20
	ECC477C	40x73x58	31x51x16	-	1.35	6	3 x 1,5	-	-	22,5

SCHEMI D'INSTALLAZIONE - INSTALLATION DIAGRAM - SCHEMAS D'INSTALLATION -
INSTALLATIONSPLÄNE - ESQUEMAS DE INSTALACIÓN - TELEPÍTÉSI RAJZOK

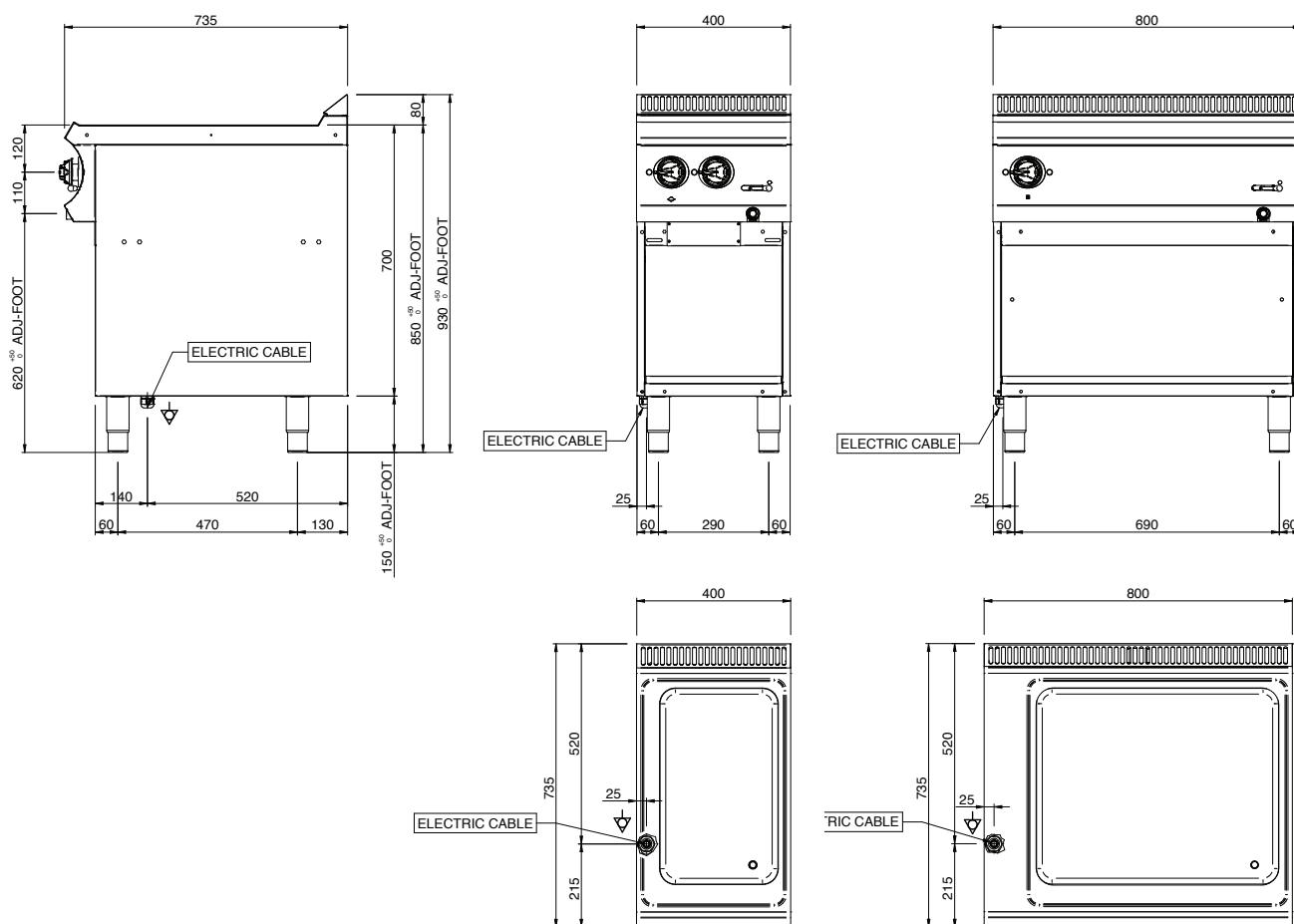
EBM477/777



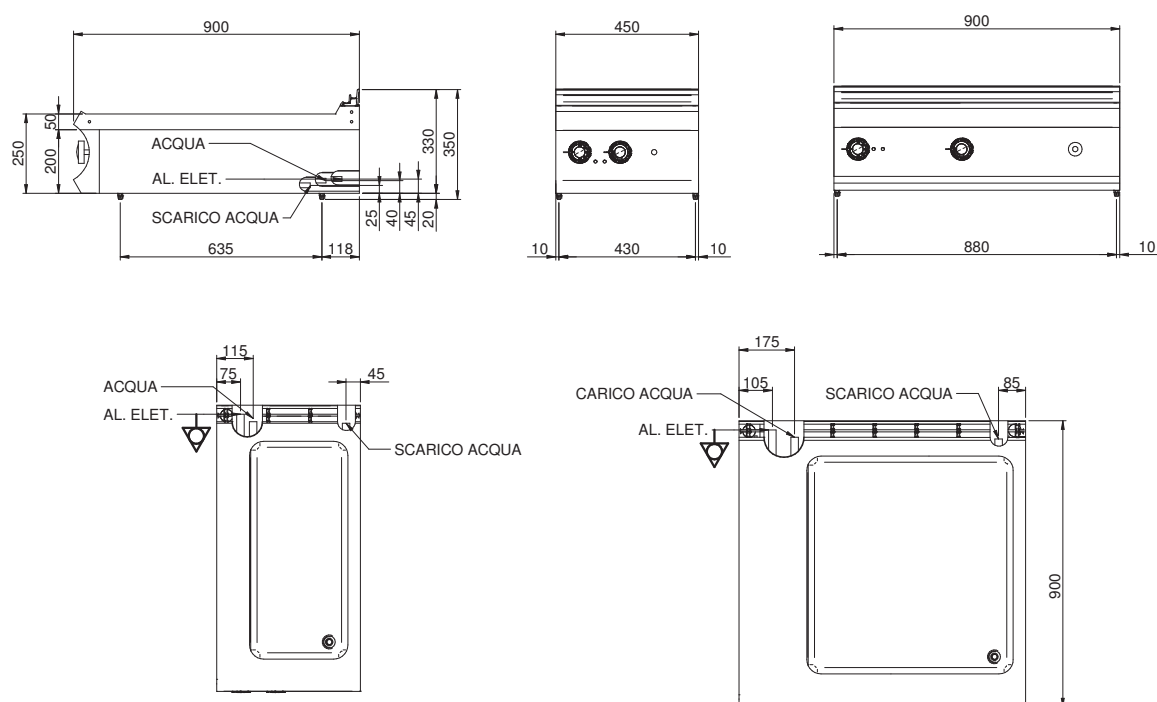


SCHEMI D'INSTALLAZIONE - INSTALLATION DIAGRAM - SCHEMAS D'INSTALLATION -
INSTALLATIONSPLÄNE - ESQUEMAS DE INSTALACIÓN

EBMA477I/777



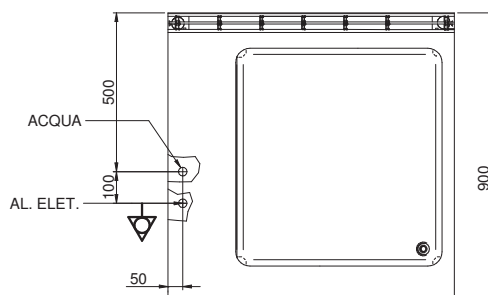
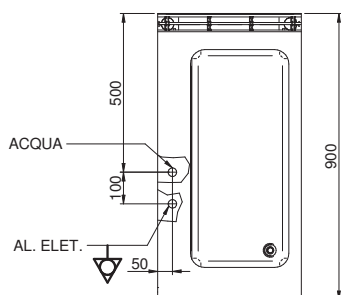
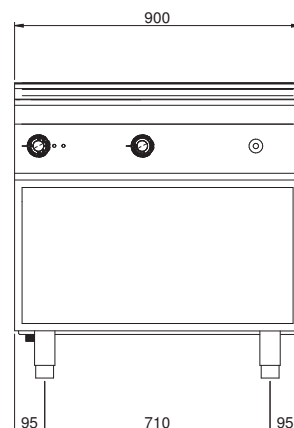
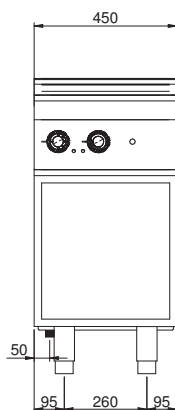
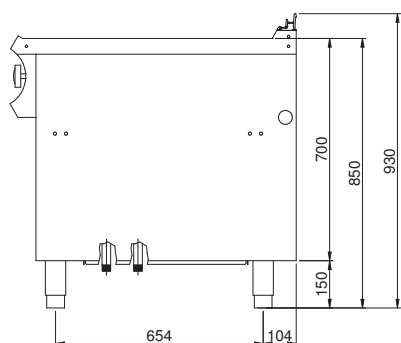
EBM498T/998T



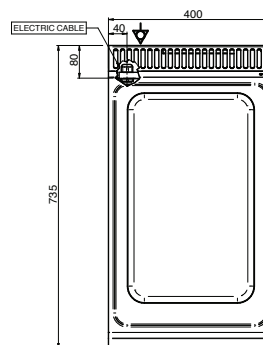
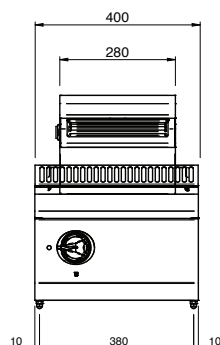
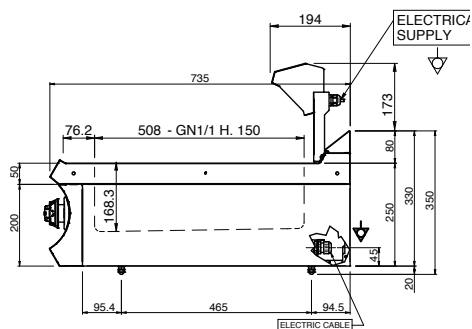
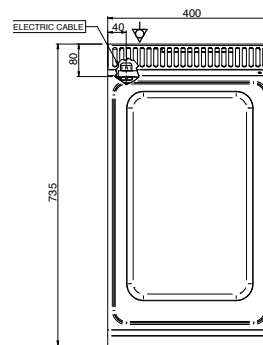
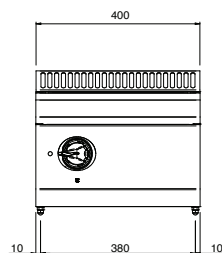
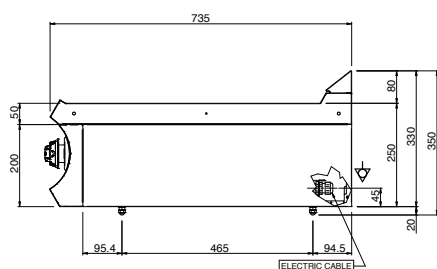


SCHEMI D'INSTALLAZIONE - INSTALLATION DIAGRAM - SCHEMAS D'INSTALLATION -
INSTALLATIONSPLÄNE - ESQUEMAS DE INSTALACIÓN

EBM(A)4..8/9..8



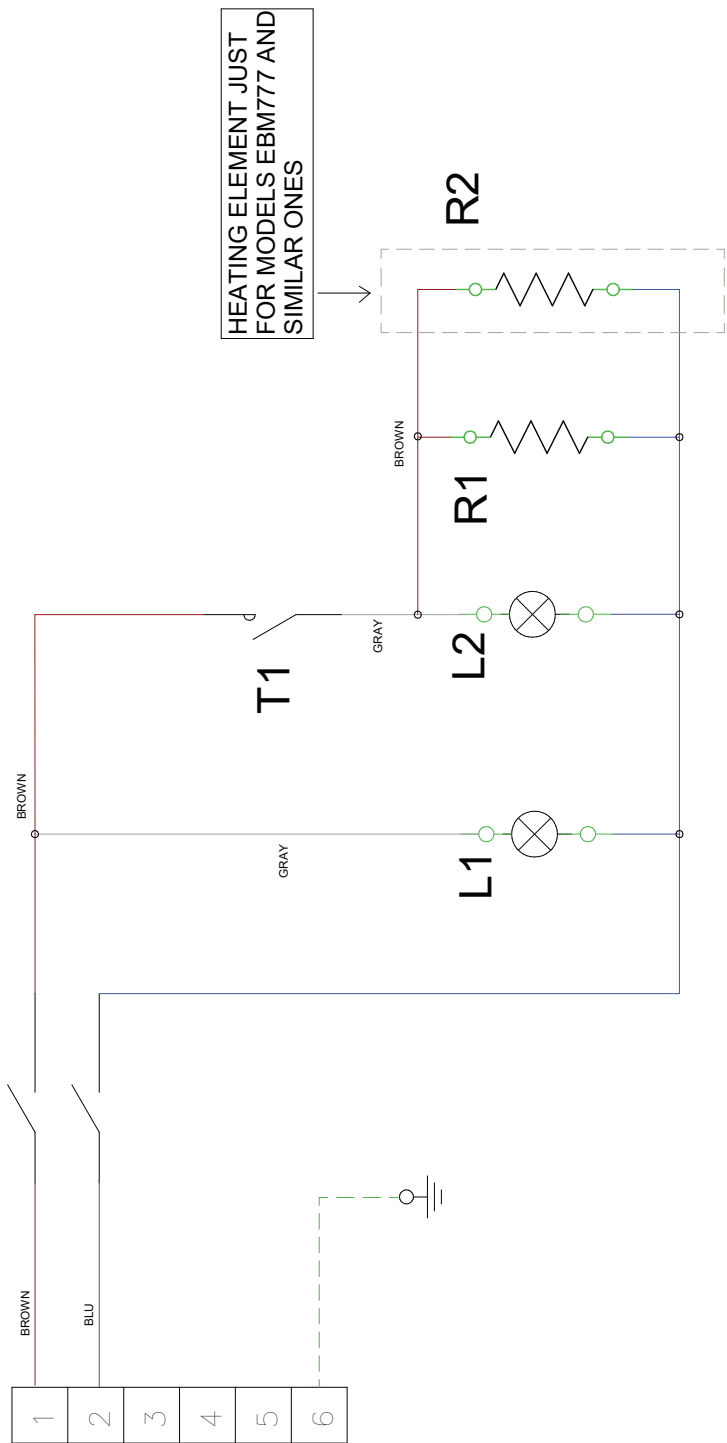
ECC477/477C



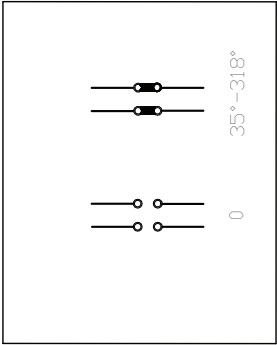


SCHEMA ELETTRICO - WIRING DIAGRAM - SCHEMA ELECTRIQUE - SCHALTPLAN - ESQUEMA ELECTRICO

EBM(A)477/777



CO1

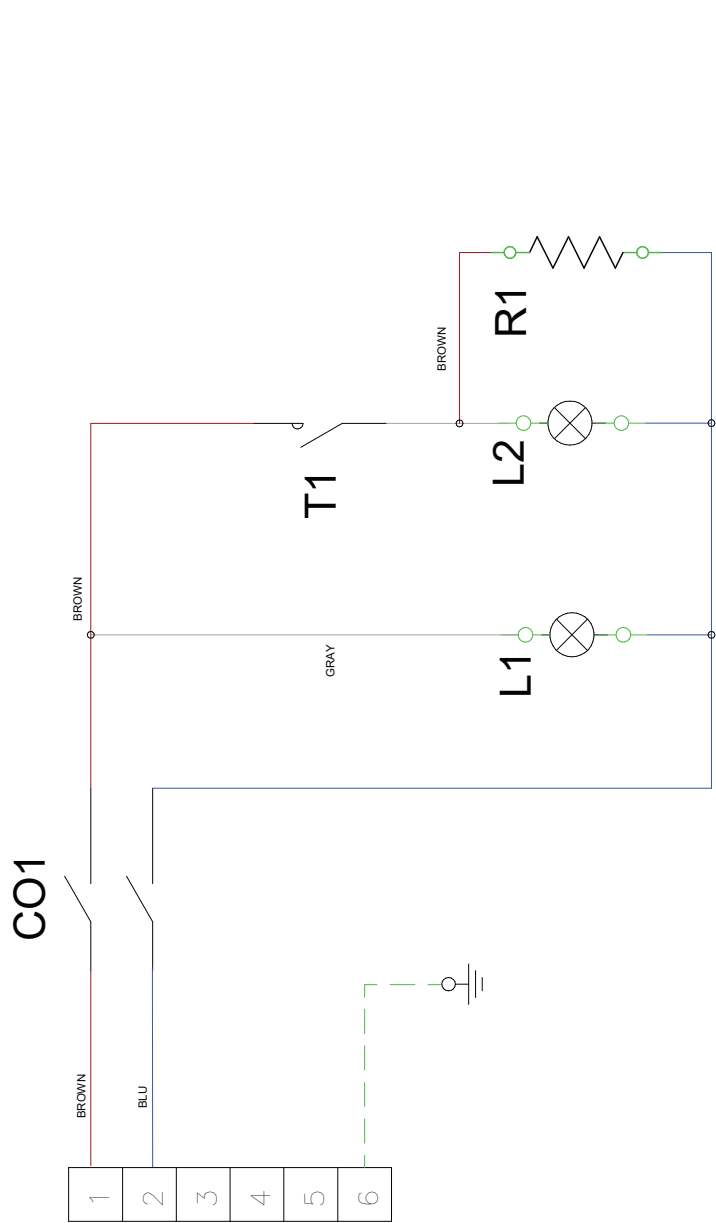


	ITALIANO	FRANCAIS	ENGLISH	DEUTSCH
M	INTERRUTTORE	PENNEAU DE CONTRÔLE	TERMINAL BLOCK	KLEMMENLEISTE
CO1	COMUTATORE	COMMUTEUR	SWITCH	HAUPTSCHALTER
R1-R2	RESISTENZA	RÉSISTANCE	HEATER ELEMENT	WIDERSTAND
L1	LAMPADA VERDE	LAMPE VERTE	GREEN LAMP	GRÜNE LAMPE
L2	LAMPADA ARANCIONE	LAMPE ORANGE	ORANGE LAMP	ORANGE LAMP
T1	TERMOSTATO	THERMOSTAT	THERMOSTAT	THERMOSTAT

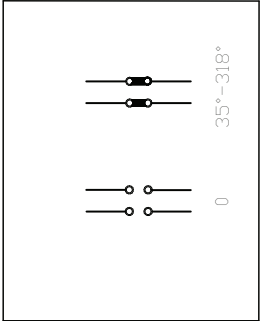


SCHEMA ELETTRICO - WIRING DIAGRAM - SCHÉMA ÉLECTRIQUE - SCHALTPLAN - ESQUEMA ELECTRICO

EBM(A)4..8



CO1

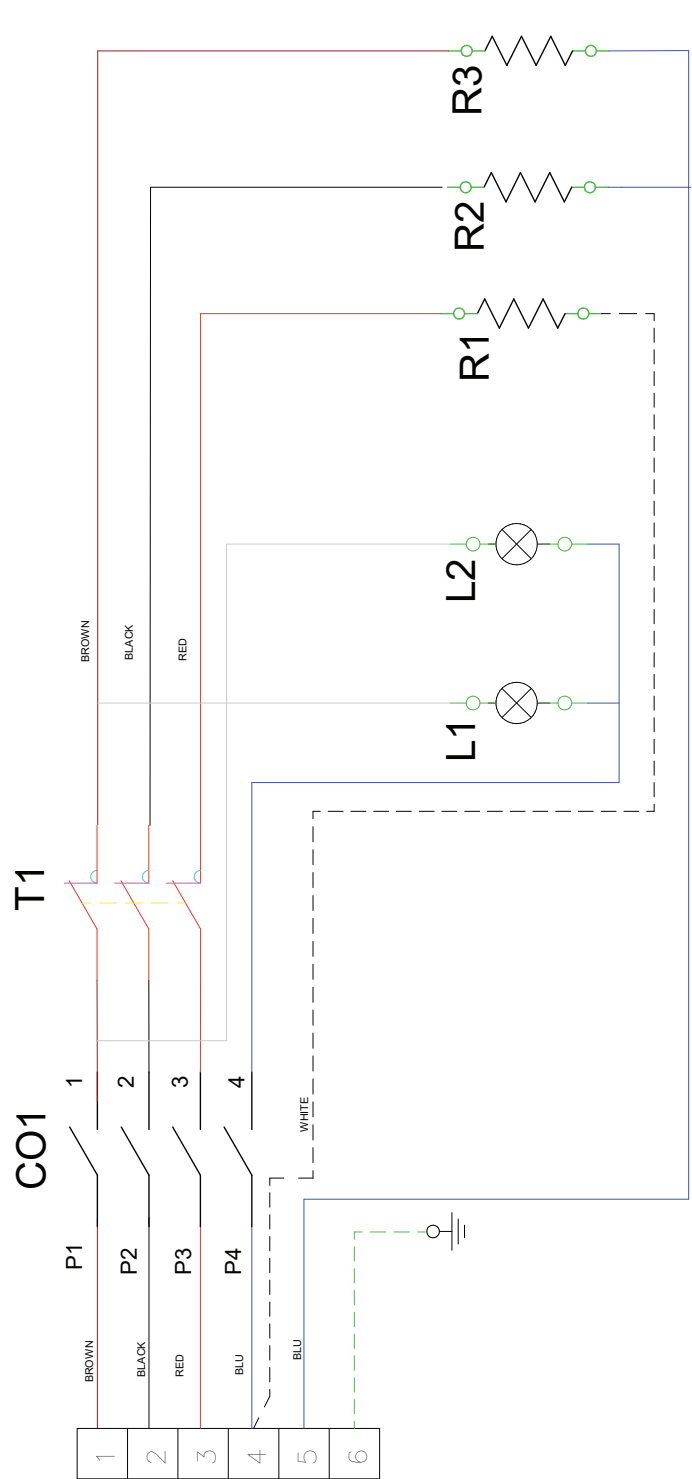


	ITALIANO	FRANCAIS	ENGLISH	DEUTSCH
M	MORSETTIERA	PENNEAU DE CONTROLE	TERMINAL BLOCK	KLEMMENLEISTE
CO1	COMMUTATORE	COMMUTEUR	SWITCH	HAUPTSCHALTER
R1	RESISTENZA	RESISTANCE	HEATING ELEMENT	WIDERSTAND
L1	LAMPADA VERDE	LAMPE VERTE	GREEN LAMP	GRUENE LAMPE

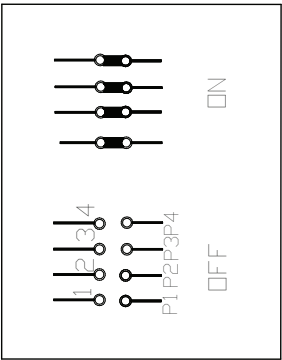


SCHEMA ELETTRICO - WIRING DIAGRAM - SCHÉMA ÉLECTRIQUE - SCHALTPLAN - ESQUEMA ELECTRICO

EBM(A)9..8



CO1

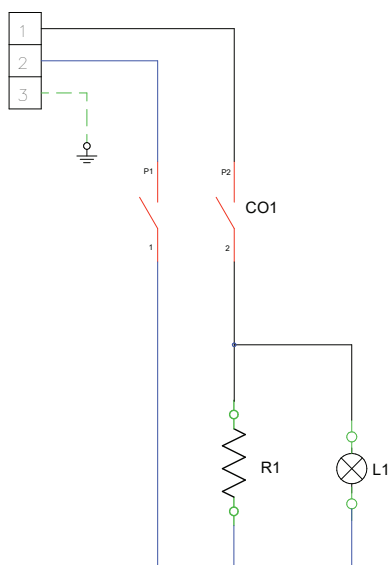


	ITALIANO	FRANCAIS	ENGLISH	DEUTSCH
M	MORSETTIERA	PENNEAU DE CONTROLE	TERMINAL BLOCK	KLEMMENLEISTE
CO1	COMUTATORE	COMMUTEUR	SWITCH	HAUPTSCHALTER
R1-R3	RESISTENZA	RESISTANCE	RESISTANCE	WIDERSTAND
L2	LAMPADA VERDE	LAMPE VERTE	GREEN LAMP	GRUENE LAMPE
L1	LAMPADA ARANCIO	LAMPE ORANGE	ORANGE LAMP	ORANGE LAMP
T1	TERMOSTATO DI LAVORO	THERMOSTAT DE TRAVAIL	WORKING THERMOSTAT	THERMOSTAT DER WORK



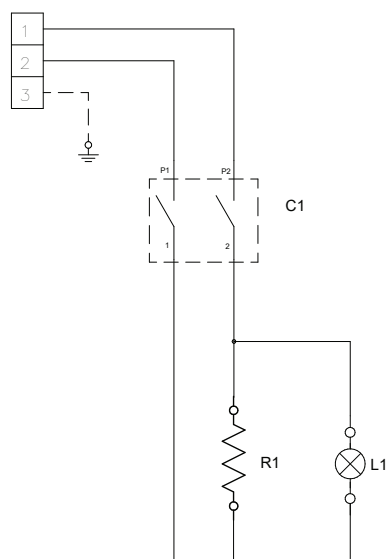
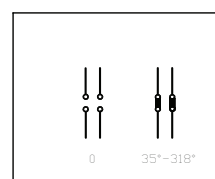
SCHEMA ELETTRICO - WIRING DIAGRAM - SCHÉMA ÉLECTRIQUE - SCHALTPLAN - ESQUEMA ELECTRICO

ECC477



	ITALIANO	FRANCAIS	ENGLISH	DEUTSCH
M	MORSETTIERA	PENNEAU DE CONTRÔLE	TERMINAL BLOCK	KLEMMENLEISTE
CO1	COMMUTATORE	COMMUTEUR	SWITCH	HAUPTSCHALTER
R1	RESISTENZA ELETTRICA	RÉSISTANCE ÉLECTRIQUE	HEATING ELEMENT	WIDERSTAND
L1	LAMPADA	LAMPE	LAMP	LAMPE

CO1



	ITALIANO	FRANCAIS	ENGLISH	DEUTSCH
M	MORSETTIERA	PENNEAU DE CONTRÔLE	TERMINAL BLOCK	KLEMMENLEISTE
C1	COMMUTATORE	COMMUTEUR	SWITCH	SWITCH
R1	RESISTENZA ELETTRICA	RÉSISTANCE ÉLECTRIQUE	HEATING ELEMENT	WIDERSTAND
L1	LAMPADA	LAMPE	LAMP	LAMPE

C1

