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Mod: E7/2VC4T

Production code: BBEVC277



Diamond
catering equipment

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

EN



EVC277

**EVC477
EVC4F77**



IDENTIFICAZIONE DOCUMENTO - DOCUMENT IDENTIFICATION
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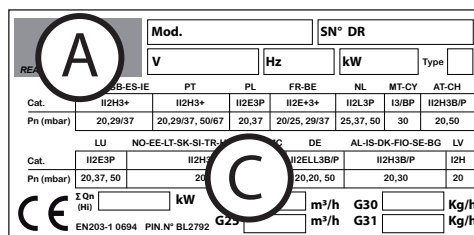
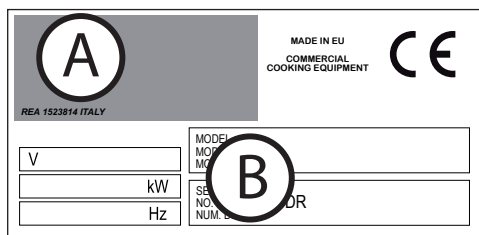
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CONFORMITÀ - CONFORMITY - CONFORMITÉ - DECLARACIÓN DE CONFORMIDAD - KONFORMITÄT - CONFORMIDADE - ZGODNOŚĆ - CONFORMITEIT - НОРМАТИВНОЕ СООТВЕТСТВИЕ:	CE

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.



QUADRO NORMATIVO DI RIFERIMENTO - STANDARDS OF REFERENCE TABLEAU NORMATIF DE REFERENCE - MARCO REGLAMENTARIO DE REFERENCIA - REFERENZNORMEN
 - QUADRO NORMATIVO DE REFERÊNCIA - RAMY REGULACYJNE ODNIESIENIA - TABEL MET NORMREFERENTIES - СПРАВОЧНЫЕ НОРМАТИВНЫЕ СТАНДАРТЫ

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GAS-GÁS-GAZ GAZOWY-GAZ ELETTRICO ELECTRIC ELECTRIQUE ELÉCTRICO ELEKTRISCH ELÉTRICO ELEKTRYCZNY ЭЛЕКТРИЧЕСКАЯ ELEKTRISK	EN 62233:2008; EN 60335-2-36:2003 EN 60335-1:2012/ A11:2014 EN 60335-2-36/A1:2005 EN 60335-2-36/A2:2008	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 EN55011:2007; A2	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

Description of pictograms - General safety indications - Tasks and qualifications -
Working areas and dangerous areas - Equipment necessary for installation - Indications
concerning residual risks

3. POSITIONING AND HANDLING

Obligations/Prohibitions/Advice/Recommendations - Handling safety
Introduction - Handling/Transportation - Storage - Disposal of packaging - Removal of
protective materials - Levelling and securing - "Series" assembly - Insertion of
"optional" terminal

4. CONNECTION TO ENERGY SOURCES

Connection to the electrical power supply - Connection to "Equipotential" system

5. OPERATIONS FOR COMMISSIONING

Description of stop modes - Commissioning for initial start-up
Daily activation - Daily decommissioning and prolonged decommissioning

6. MAINTENANCE

Summarised table: Qualification/Operation/Frequency
Troubleshooting

7. WASTE DISPOSAL

Deactivation and scrapping of appliance

8. TECHNICAL DATA

9. TECHNICAL DIAGRAMS TECNICI (from page A)

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

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.

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 around the appliance must be fireproof and/or insulated against possible heat sources.

Test inspection and warranty

Test inspection: the appliance was inspected by the manufacturer during assembly at the production site. All inspection certificates will be delivered to the customer.

Warranty: the appliance is covered by a 12-month warranty, according to the details carried on the sales contract. If during the period covered by the warranty, defective operations occur or faulty equipment parts are found which are included in the warranty conditions, after proper verifications, the faulty parts will be repaired or replaced.

The faulty parts covered by the warranty will be repaired or replaced free of charge. The customer will take care of transportation and/or shipping expenses, as well as 2-way trip expenses relative to the interventions of the manufacturer's

technicians at the customer's site.

Labour costs relative to the intervention of the manufacturer's technicians at the customer's site for repairing defects covered by the warranty are at the customer's expenses, unless the nature of the defect can easily be taken care of by the customer.

All expendable equipment and materials supplied by the manufacturer together with the unit are excluded from the warranty.

The Manufacturer is liable for the equipment in its original configuration.

The manufacturer will not be held liable for improper use of the appliance, for damage caused ensuing operations not taken into consideration in this manual or without prior authorisation of the manufacturer himself.

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).

Description of pictograms

	Danger signals 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 signals Unauthorised persons (including children, disabled individuals and people with limited physical, sensory and mental abilities) are prohibited from performing any procedures. 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 signals 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

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.
	Do not use the equipment with empty pots. Risk of burning

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.
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2. GENERAL AND SAFETY INFORMATION

Obligations - Prohibitions - Advice - Recommendations

	Store this document carefully, so that it is available for whoever uses the appliance, consulting it when needed.
	The controls on the appliance can only be switched by hand. Damage caused by sharp objects or the likes terminate all and any warranty rights.
	In order to minimise the risk of shocks or fire, do not connect or disconnect the unit with wet hands.
	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.
	Do not use the equipment with empty pots. Risk of burning.
	Do not use the device if the surface is damaged/cracked. Do not use cold liquids (like water) on the hot surface. The thermal shock may cause the surface to break.

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, were not possible to eliminate. These risks include:

	Residual risk of electrocution: This risks remains when intervening on live electrical and/or electronic devices.
	Residual risk of burning: This risks remains when unintentionally coming into contact with materials at high temperatures.
	Residual risk of burning due to leaking material This risks remains when coming into contact unintentionally with leaking materials at high temperatures. Containers too full of liquids and/or solids which when heated change morphology (passing from a solid state to a liquid state) can cause burning if used improperly. During work, the containers which are used must be positioned at easily visible levels.
	Residual risk of explosions This risk remains when: • there is smell of gas in the room; • appliance used in an atmosphere containing substances which risk exploding; • using food in closed containers (such as jars and cans), if they are not suitable for the purpose.
	Residual risk of fire This risk remains when: • using with flammable liquids (such as alcohol).

Obligations - Prohibitions - Advice - Recommendations

	Upon receipt, open the machine packaging and ensure that the machine and accessories have not been damaged during transportation. Where this is found to be the case, notify the carrier immediately and do not proceed with installation but contact the qualified and authorised personnel. The manufacturer is not liable for damage caused during transportation.
	Unauthorised persons (including children, disabled individuals and people with limited physical, sensory and mental abilities) are prohibited from performing any procedures.
	Read the instructions before acting.
	Wear protective equipment suitable for the operations to be performed. As far as personal protective equipment is concerned, the European Community has issued Directives which the operators must comply with. Noise ≤ 70 dB
	It is strictly forbidden to tamper with or remove the plates and pictograms applied to the equipment.
	Disconnect all supplies (electrical - gas - water) upstream the appliance whenever you need to work in safe conditions.
	Do not leave flammable objects or material near the appliance.
	Particular safety prescriptions (obligation-prohibitions-danger) are detailed in the specific chapter concerning these issues.
	Whenever it is necessary to operate inside the appliance (connections, commissioning, checking operations, etc.) prepare for the necessary operations (removal of panels, elimination of electric-gas-power supply) in compliance with the safety conditions.

Handling safety

	Failure to follow the instructions reported below could result in exposure to the risk of serious injury.
	Installation must be carried out by qualified and authorised technicians in accordance with the laws in force and with the use of the appropriate materials described.
	Wear personal protective clothing. This must meet the requirements of the EC directive on personal protective equipment.
	The operator authorised for the handling and installation operations of the appliance must prepare, if necessary, a "safety plan" in order to ensure the safety of the persons involved in the operations. In addition, they must follow and strictly and scrupulously implement the laws and regulations relating to mobile sites.
	Ensure that the lifting means adopted have capacity that is adequate for the loads to be lifted and are in a good state of maintenance.
	Perform the handling operations using lifting means with a capacity appropriate to the weight of the appliance increased by 20%.
	Follow the directions on the packaging and/or on the same appliance before handling
	Check the centre of gravity of the load before lifting the appliance.
	Lift the appliance to a minimum height from the ground in order to ensure its handling.
	Do not stand or pass under the appliance during lifting and handling.

3. POSITIONING AND HANDLING

3.1 INTRODUCTION

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.

3.2 HANDLING - TRANSPORTATION



The orientation of the packed appliance must be maintained according to the instructions given by the pictograms and lettering on the outer packaging.



Do not stand or pass under the appliance during lifting and handling. Failure to follow these instructions could result in exposure to the danger of serious injury.

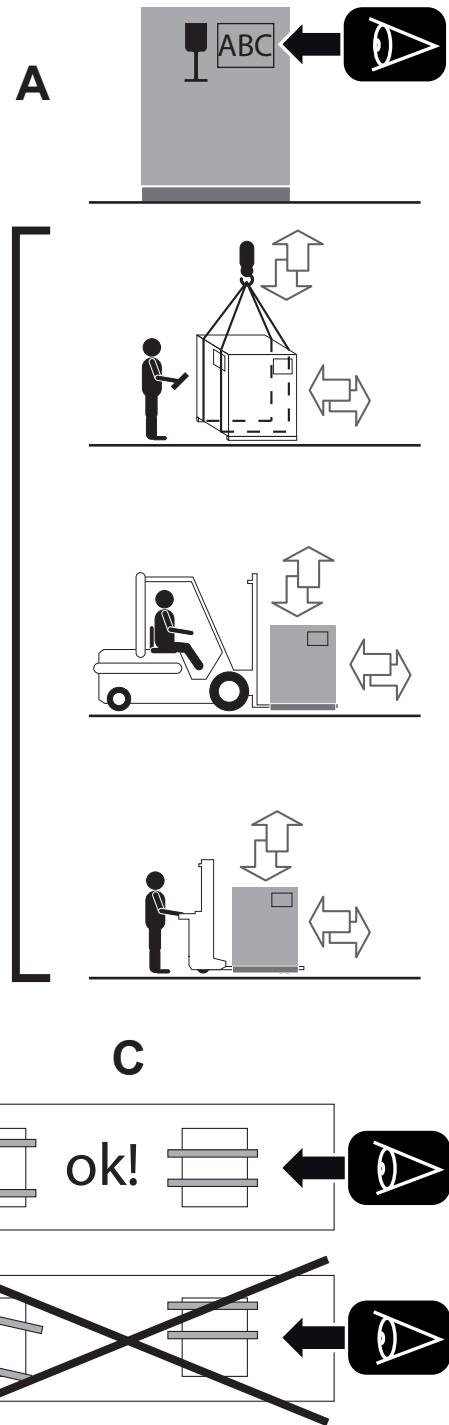
- Position the lifting means paying attention to the centre of gravity of the load to be lifted (detail B-C).
- Lift the appliance enough to move it.
- Place the appliance on the site chosen for final positioning.

3.3 STORAGE

The storage methods of the materials must include pallets, containers, conveyors, vehicles and lifting devices that are suitable to prevent damage due to vibration, impact, abrasion, corrosion, temperature or other conditions that might arise.

The parts stored should be periodically checked to detect possible deterioration.

3.4 DISPOSAL OF PACKAGING



	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.

3.5 REMOVAL OF PROTECTIVE MATERIALS

The appliance is protected on the exterior surfaces with a covering of adhesive film which must be removed manually after positioning of the appliance.

Carefully clean the appliance, externally and internally, manually removing all the material used to protect the parts.

	Be careful not to damage stainless steel surfaces. Do not use corrosive products, abrasive material or sharp tools.
	Do not use pressurised or direct water jets to clean the appliance.
	Do not use harsh materials such as solvents to clean the appliance. Carefully read the indications contained on the labels of the products used. Wear protective equipment suitable for the operations to be performed (see the protection information shown on the package label).
	Rinse the surfaces with tap water and dry them with an absorbent cloth or other non-abrasive material.

CLEANING AT COMMISSIONING

Apply the cleaning liquid using normal spray over the entire surface of the cooking chamber and manually thoroughly clean the entire surface using a non-abrasive sponge.

Afterwards rinse the cooking chamber with drinking water.

Let the liquid containing detergent and/or other impurities flow off into the drain hole.

Having successfully completed the operations described, carefully wipe the cooking chamber with a non-abrasive cloth. If necessary, repeat the operations described above for a new cleaning cycle.

Also clean with detergent and water the parts removed and clean them. With the operations completed, place the parts removed in the appropriate housings of the various pieces of equipment.

3.6 LEVELLING AND SECURING

Position in the work place (see operation and environmental limit conditions permitted), previously made suitable, of the appliance.

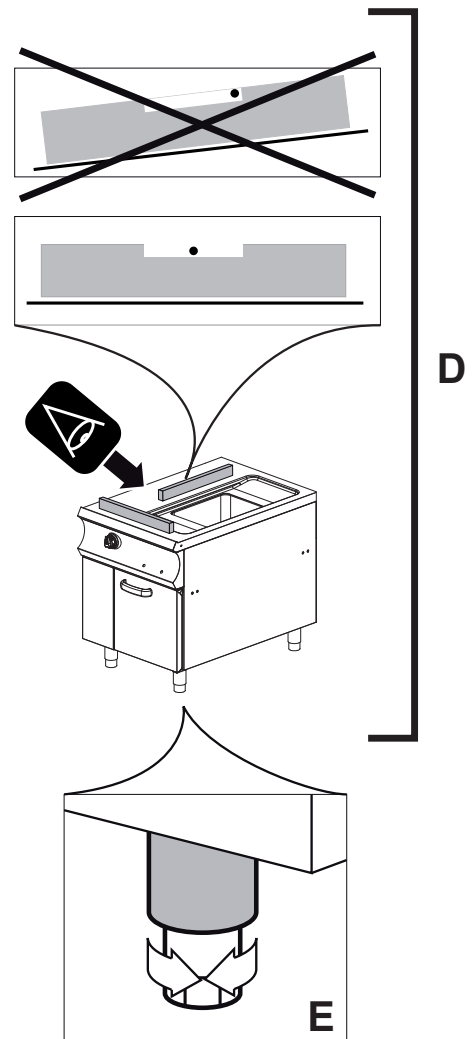
The tasks of levelling and securing include: adjustment of the appliance as a single independent unit.

Place a spirit level on the structure (detail D).

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



Perfect levelling is achieved by adjusting level and feet on the 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.

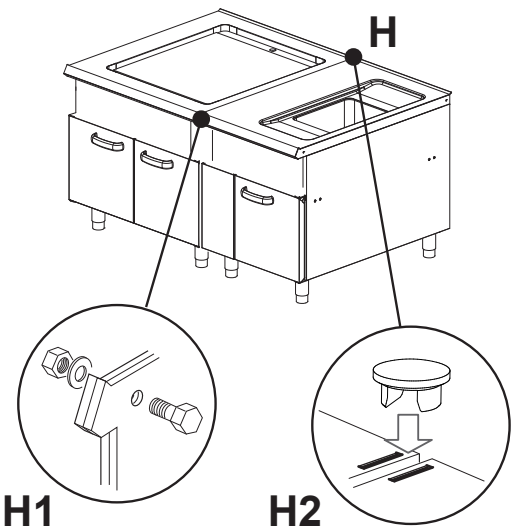
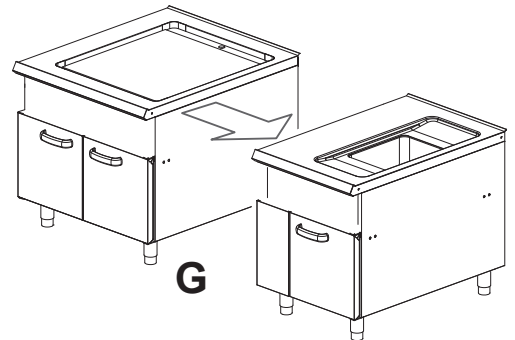
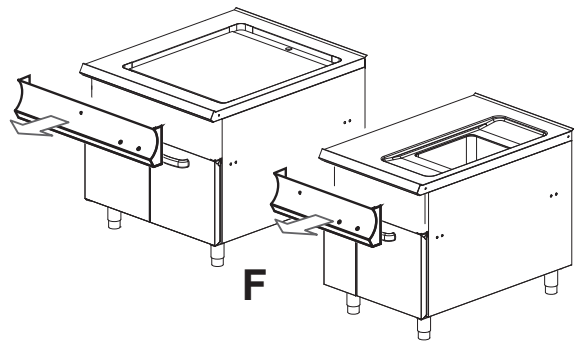
Place the equipments in order to make their sides perfectly adhere (detail G).

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)

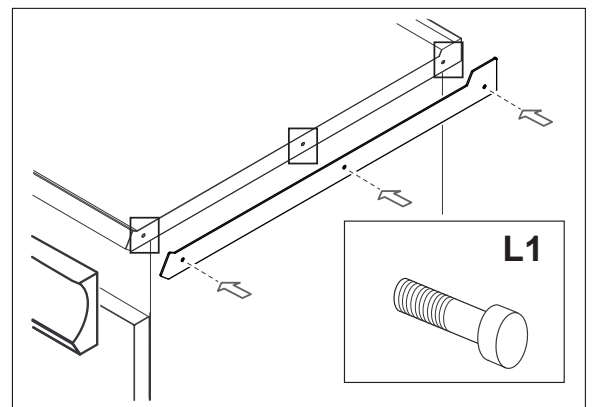
If necessary, repeat levelling and fixing operation sequence for the remaining equipments.



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.



4.1 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).

Before performing the connection check the technical data mentioned on the appliance plate, as well as the technical data mentioned on this manual. This appliance requires a fixed connection.

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 cable model H07RN-F must be introduced in the appliance through the cable clip at the correct length and fixed to the cable clip (Fig. 7).
- Carry out the electrical connection of the supply cable (Fig. 8-9) to the terminal board, following the indications mentioned on the plate provided, placed near the terminal board (see the electrical wiring diagram of the single appliance).

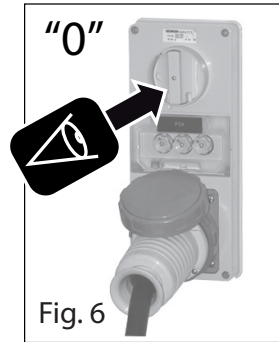


Fig. 6

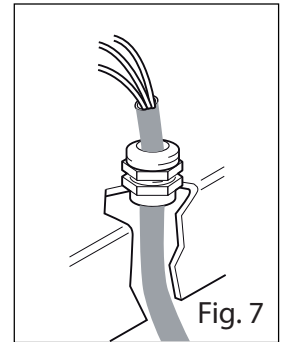


Fig. 7

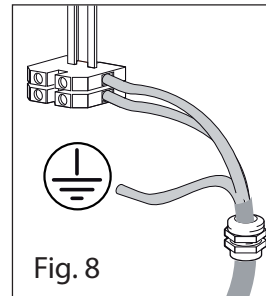


Fig. 8

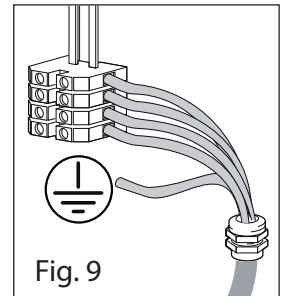


Fig. 9

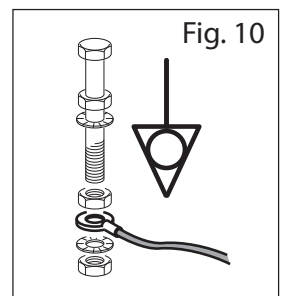


Fig. 10



The equipment must be included in an "Equipotential" earth unload system Fig. 10)

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.

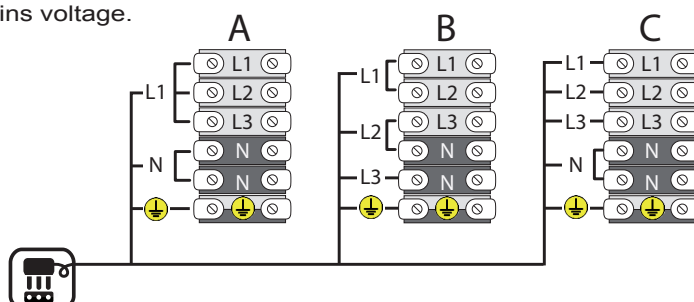


A connection with a wiring harness different from that indicated must be authorized by the manufacturer.

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

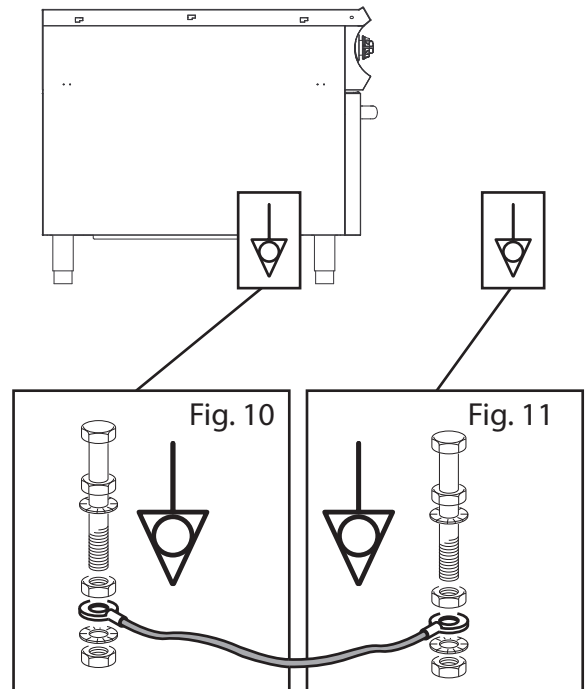
4. CONNECTION TO ENERGY SOURCES

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. OPERATIONS FOR COMMISSIONING

5.1 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).

Stoppage due to faulty operations

Safety component

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.

5.2 COMMISSIONING FOR INITIAL START-UP



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 section 3.5).

Having successfully completed the operations, it is possible to proceed with normal 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 exhaust system works properly.
4. Check the cleanliness and hygiene of the appliance.

Having successfully completed the operations, proceed with the “Start-up for cooking” phases described in the user manual supplied with each appliance.

Daily decommissioning

Upon completion of the operations described above:

1. Close the network locks upstream the appliance (Gas - Water - Electric).
2. Make sure that the drain cocks (if present) are “Closed”.
3. Check the cleanliness and hygiene of the appliance; see section 3.5.

Prolonged decommissioning

In case of prolonged inactivity, perform all the procedures described for daily putting out of service and protect the parts most exposed to oxidation as indicated below:

1. Use lukewarm water with a bit of soap to clean the parts;
2. Rinse the parts thoroughly, without using pressurised and/or direct water jets;
3. Dry the surfaces carefully using non-abrasive material;
4. Pass over all the stainless steel surfaces using a non-abrasive cloth slightly moistened with Vaseline to create a protective coating.

For appliances with doors and rubber gaskets, leave the door slightly ajar to let it air out and spread protective talcum powder on the rubber gasket surfaces.

Periodically air the appliances and rooms.



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

6. MAINTENANCE

Summarised table: qualification - operation - frequency

	Generic operator Person authorised and employed to operate the appliance with guards active, capable of performing routine tasks
	Homogeneous operator Expert operator authorised for handling, transporting, installing, servicing, repairing and scrapping the equipment

	OPERATION	FREQUENCY
	Cleaning at commissioning	Upon arrival after installation
	Appliance cleaning	Daily
	Cleaning parts in contact with foodstuff	Daily
	Flue cleaning	Yearly
	Checking thermostat	Upon arrival after installation - Yearly
	Checking microswitch	Upon arrival after installation - Yearly
	Top cleaning (chrome-plated, cast iron)	Daily
	Check the power cable	Upon arrival after installation - 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 correctly
	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

Troubleshooting

	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 and/or circuit breaker has tripped	- Connect the master switch. - Restore the residual current device and/or circuit breaker.
The cooking compartment is stained.	- Quality of the water. - Ineffective detergent. - Insufficient rinsing.	- 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
The appliance does not heat up	Damaged internal components	Call the authorised technical assistance service.

	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
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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.

1.1 GLASS-CERAMIC COOKERS AND COOKTOPS

MODEL	DIMENSIONS IN mm.		ABSORBED POWER*					NET WEIGHT
	EXTERNAL L x P x A/A max	OVEN GN 2/1 L x P x A	Ø 180 1800 W	Ø 230 2500 W	Forno 3800 W	Sup. 1500 W	Total kW	
EVC277	400x730x250	-	1	1	-	-	4,3	27
EVC477	700x730x250	-	2	2	-	-	8,6	49
EVC4F77	700x730x850	560x660x310	2	2	1	1	13,9	99

*VOLTAGE SUPPLY: 3N AC 400 V; 3 AC 230 V; 1N AC 230 V 50/60 Hz.

N.B.: Power absorbed with 3N AC 380 V; 3 AC 220 V; 1N AC 220 V 50/60 Hz is approx. 9% less.

Power absorbed with 3N AC 415 V; 3 AC 240 V; 1N AC 240 V 50/60 Hz is approx. 9% upper.

Tab. 1

1.2 TECHNICAL CHARACTERISTICS

STRUCTURE

Stainless steel frame AISI 304, stainless steel panels and base mounted on height-adjustable feet.

TOP in glass-ceramic.

ENERGY REGULATORS that ensure the control of the cooking surfaces and the correct adjustment of their temperatures.

CONTROL KNOBS made of insulated material.

1.2.1 OVEN GN2/1

COOKING CHAMBER in high-temperature and acid resistant porcelained steel, with internal dimensions complying to GASTRONORM 2/1. Thermal insulation with high-density glass wool. Grill's lateral supports made of chromate steel bars, easily extractable for cleaning. Grill made of chromate steel bar.

OVEN DOOR with double panelling and insulating glass wool interspace, door headers of enamel steel, handles mounted on athermal supports, and door seal. Balanced spring hinges.

1.2.1.1 ELECTRICAL HEATING

- Electric heating elements in reinforced stainless steel are located in the cooking chamber.
- Selector switch with 50÷300°C thermostat and the following functions:
- Full oven heating 5300W (upper and lower heating elements on)
- Lower heating element 3800W
- Upper heating element 1500W
- Indicator lights to signal the switching on and functioning of the thermostat.

INSTALLATION INSTRUCTIONS

Installation must be performed by qualified persons in accordance with local current regulations.

WARNINGS:

If the oven is installed against a wall, the wall needs to withstand temperatures of 100°C and must be fireproof.

Before proceeding with the installation, remove the protective plastic film and eliminate any adhesive residues by means of a suitable product for cleaning stainless steel.

Install the oven horizontally, correct positioning is obtained by turning the levelling feet.

2.2 LAWS, REGULATIONS AND TECHNICAL DIRECTIVES

The following indications should be observed during installation:

- Accident and fire regulations in force
- The regulations of the electric power supply company.
- Local hygienic regulations.
- The rules for electrical systems.

2.3 INSTALLATION PLACE

- The unit should be installed in adequately ventilated places.
- Install the unit in compliance with the local safety regulations.

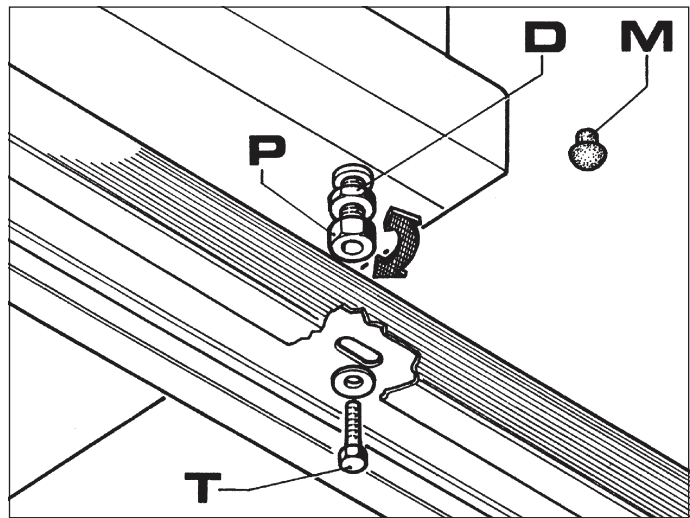
2.4 POSITIONING

- The various units may be installed individually or together with other units of our range.
- This unit is not suitable for encasing.
- The distance between side walls must be a minimum of 10cm; should the distance be less or the wall or floor material be flammable, it is essential to use a thermal insulator.

2.5 MOUNTING THE TOP UNITS ON A BASE OR AN EXTENDING SUPPORT

All Top units are supplied with height-adjustable feet (P):

- When the unit is to be placed free on a table or a surface, tighten or loosen the feet (P) as shown in the illustration till it is perfectly steady, then tighten the locknut (D) so that the foot is blocked. To prevent slipping, insert the rubber plugs (M) into the feet's lower holes.
- When the unit is to be fixed to a base or an extending support, adjust the feet (P) till it is perfectly steady, then tighten the locknut (D) so that the foot is blocked. Subsequently fasten from beneath by way of M5 screws (T) and respective washers, screwing them into the feet as shown in the illustration.



2.6 ELECTRICAL CONNECTION

Electrical connection should be performed in compliance with the IEC regulations, only by authorised and competent personnel. 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.

IMPORTANT: 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..

2.6.1 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 local 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.

ATTENTION: NEVER INTERRUPT THE EARTH WIRE (Yellow-Green).

2.6.2 EQUIPOTENTIAL

The unit should be included within an equipotential system whose efficiency must be tested according to the local law in force. The screw marked with the label "Equipotential" is located near the terminal box on the base for models with oven, and at the back for the remaining models.

2.6.3 POWER SUPPLY CABLE

The unit is supplied fitted for the following voltages:

3N AC 380...415V; 3 AC 220...240V; 1N AC 220...240V 50/60 Hz.

The flexible cable for power supply connection should not have characteristics lower than the rubber insulation type H07RN-F. The cable should be inserted through the cable clamp and firmly fastened. Furthermore, the supply voltage with the unit functioning should not go outside the value of the nominal tension $\pm 10\%$.

To have access to the terminal box in order to connect the unit to a supply network having different characteristics from those provided for, or to replace the supply cable, you need to:

- remove the front panel (top or top + cabinet)
- connect the cable to the terminal box according to need, and following the instructions shown on the provided label near the terminal board and on the present booklet.

MODEL	EVC277		EVC477		EVC4F77	
TYPE OF SUPPLY	Mass. A/f	N° cables mm ²	Mass. A/f	N° cables mm ²	Mass. A/f	N° cables mm ²
3N AC 380...415 V 50/60 Hz	6,2	5 x 1,5	12,2	5 x 2,5	19,8	5 x 2,5
2N AC 380...415 V 50/60 Hz	9,4	4 x 2,5	19	4 x 2,5	29,8	4 x 6
3 AC 220...240 V 50/60 Hz	10,8	4 x 2,5	21	4 x 4	34,4	4 x 6
1N AC 220...240 V 50/60 Hz	18,7	3 x 2,5	36,5	3 x 6	59,6	3 x 10

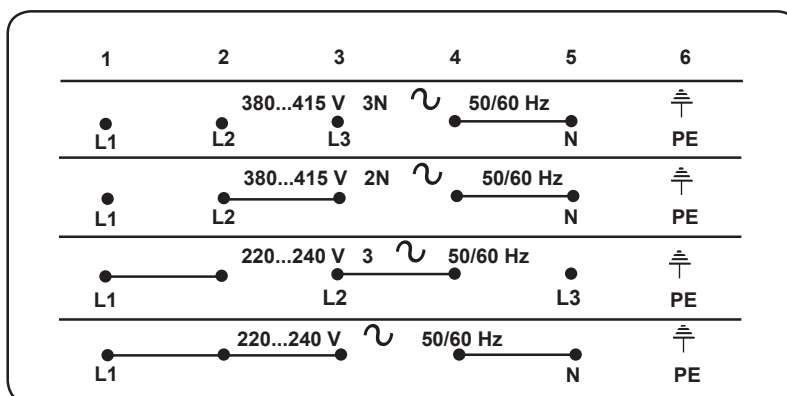
Tab. 2

2.6.4 CONNECTIONS TO VARIOUS MAIN POWER SUPPLIES

3N AC 380...415 V 50/60 Hz		PE (earth) yellow-green N (NP) blue N (NP) blue L3 (T) black L2 (S) black L1 (R) brown
2N AC 380...415 V 50/60 Hz		PE (earth) yellow-green N (NP) blue N (NP) blue L2 (S) black L1 (R) brown
3 AC 220...240 V 50/60 Hz		PE (earth) yellow-green N (NP) blue N (NP) blue L3 (T) black L1 (R) brown
1 AC 220...240 V 50/60 Hz		PE (earth) yellow-green N (NP) blue N (NP) blue L1 (R) brown

Tab.3

The electrical connection plate is placed near the terminal board.



REPLACING THE MOST IMPORTANT COMPONENTS

The replacements described below should only be performed by an "Authorized Service Centre".
You need to cut off power to the unit with the multi-polar switch. Remove the panel.

A) Switch and thermostat

- undo the screws fastening the component
- disconnect the thermostat from the switch
- remove the thermostat bulb from the support (only for thermostat)
- disconnect the electrical connections
- replace the component and restore the connections

B) Energy control

- remove the component
- disconnect the electrical connections
- replace the component and restore the connections

C) Bulb / Heat light

- disconnect the electrical connections
- fit the new bulb / heat light
- reconnect the cables

D) Electric plate

- undo the screws fastening the component
- disconnect the electrical connections
- replace the plate, restore the connections and fastening

E) Heater

- open the oven door
- remove, in sequence, the grills, tray holders and oven base
- loosen the retaining screws and disconnect the electrical connections
- dismantle the heater
- fit the new heater and restore the connections

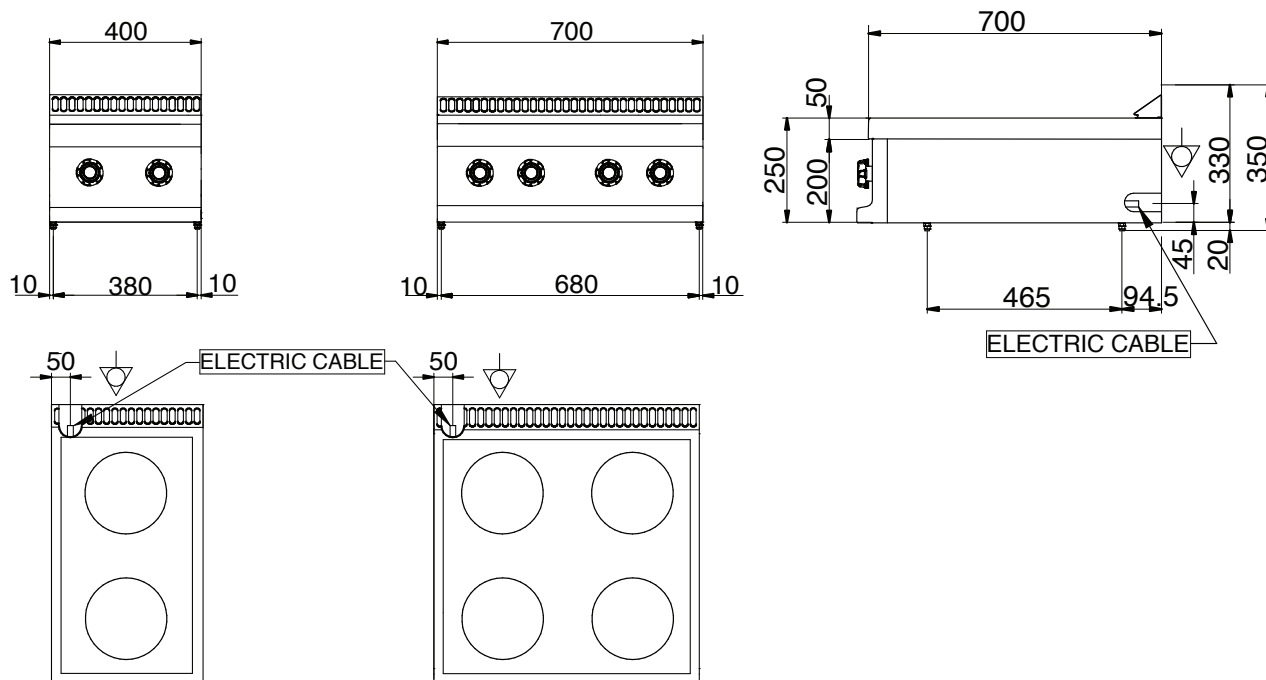


Replace the parts removed in the correct order

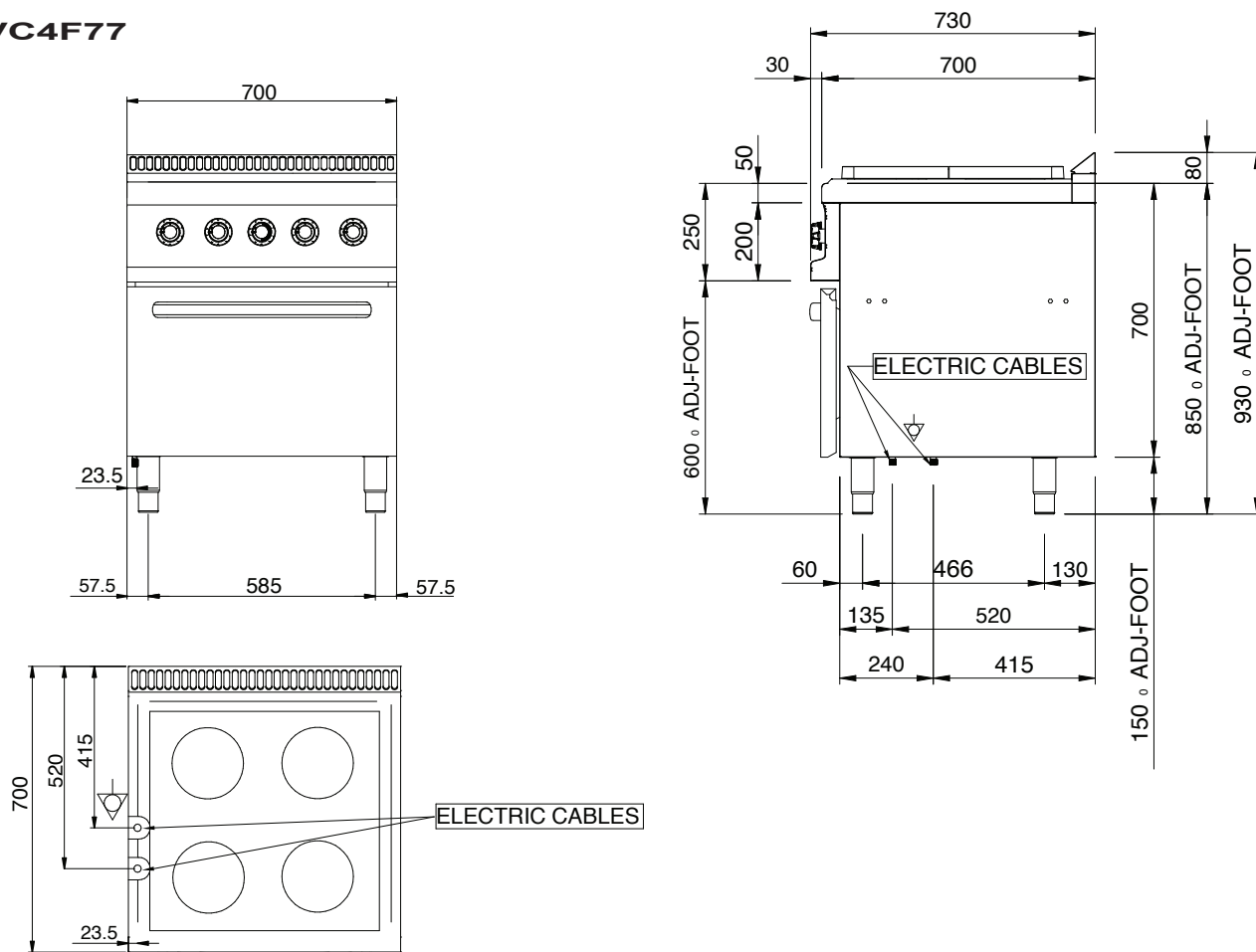


SCHEMI D'INSTALLAZIONE - INSTALLATION DIAGRAM - SCHEMAS D'INSTALLATION -
INSTALLATIONSPLÄNE - ESQUEMAS DE INSTALACIÓN

EVC277/ EVC477



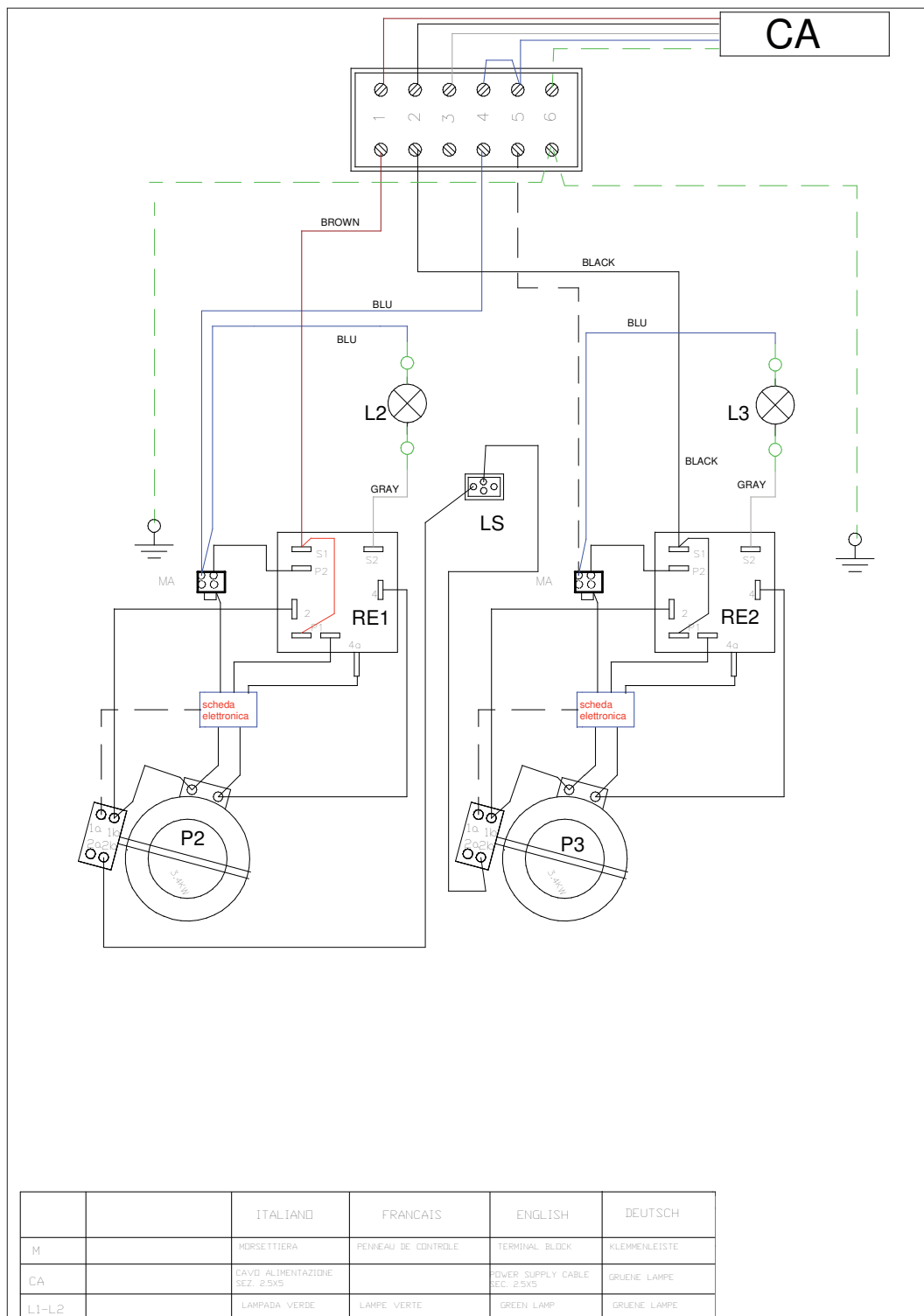
EVC4F77

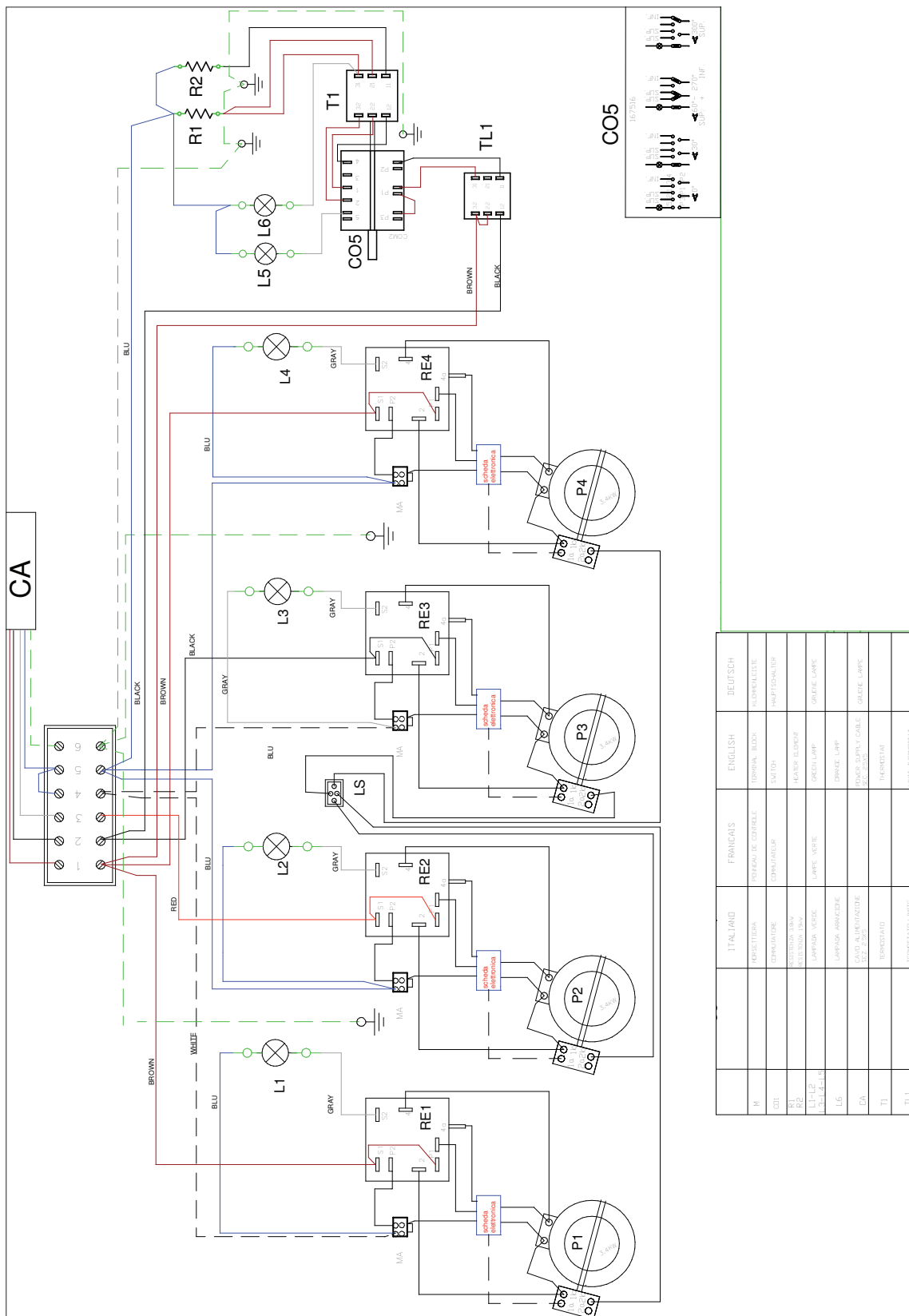




SCHEMA ELETTRICO - WIRING DIAGRAM - SCHEMA ELECTRIQUE - SCHALTPLAN -
ESQUEMA ELECTRICO

EVC277



EVC4F77



REMARKS
