

12/2017

Mod: E7/PLCD7T

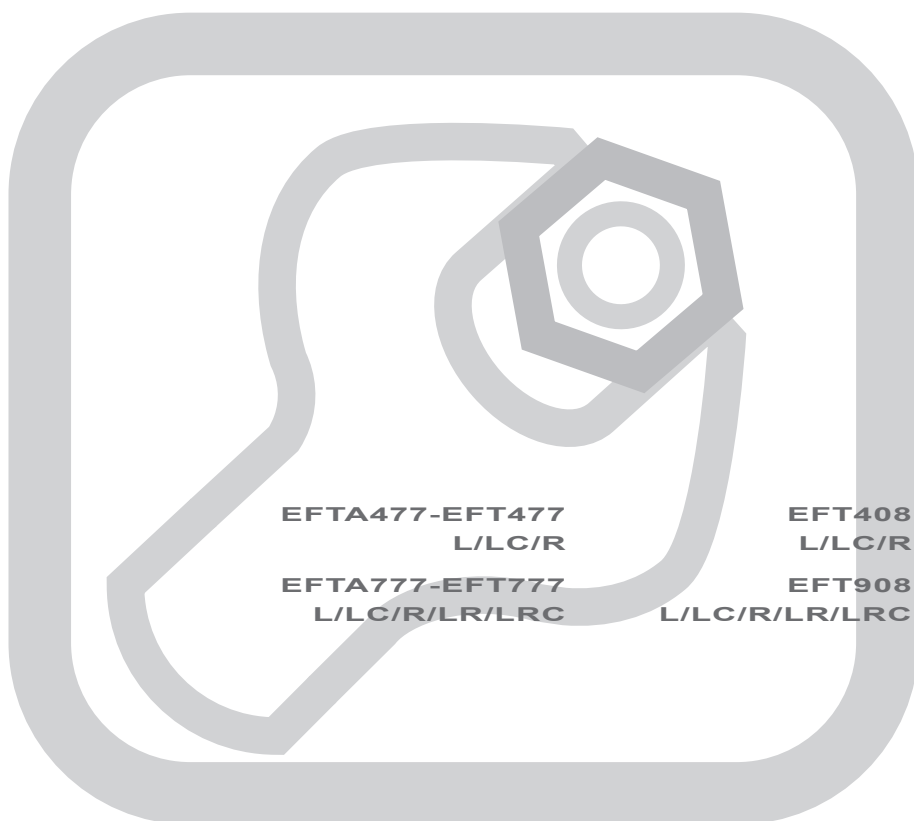
Production code: BBEFT777LC



Diamond
catering equipment

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

EN



**EFTA477-EFT477
L/LC/R**

**EFTA777-EFT777
L/LC/R/LR/LRC**

**EFT408
L/LC/R**

**EFT908
L/LC/R/LR/LRC**

**EFTA498-EFT498
L/LC/R**

**EFTA998-EFT998
L/LC/R/LR/LRC**



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

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 - 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 - Removal of
protection materials - Levelling and fixing - "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 - Stoppage due to faulty operations - Commissioning -
Daily activation - Daily decommissioning and prolonged decommissioning

6. MAINTENANCE

Qualification/Operation/Frequency
Troubleshooting

7. WASTE DISPOSAL

Deactivation and scrapping of appliance

8. TECHNICAL DATA

9. INSTALLATION DIAGRAMS - ELECTRICAL WIRING DIAGRAMS (from page A)

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

The use of the appliance treated in this document must be considered "Proper Use" if used for cooking or re-generation 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 appliance 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 $> + 10^{\circ}\text{C}$;
- 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).

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. 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





2. GENERAL AND SAFETY INFORMATION

General safety indications

	Every technical change has an effect on the operation or safety of the appliance and must therefore be performed by technical personnel of the manufacturer or by technicians who are formally authorised by the same. Failure to do so exempts the manufacturer from any liability for any possible resulting modifications or damage.
	Upon arrival, check the integrity of the appliance and its components (e.g. power cord), prior to use. In the presence of faults do not start the appliance and contact the nearest service centre.
	Before making the connections check the technical data shown on the rating plate of the appliance and the technical data in this manual.
	Locking devices must be installed on the supply lines (Electricity-Gas-Water) upstream of the appliance that exclude the power whenever it is necessary to operate safely.
	Connect the appliance in sequence to the water and drain network then to the gas network. Ensure there are no leaks then proceed with the connections to the mains.
	The appliance is not designed to work in an explosive atmosphere and as such its installation and use is categorically prohibited in such environments.
	Position the entire structure, respecting the installation dimensions and characteristics indicated in the specific chapters of this manual.
	Note! <ul style="list-style-type: none"> • The appliance is not intended for recessed installation. • The appliance must be used in a well ventilated area. • The appliance must have free drainage (not hindered or impeded by foreign bodies).
	The gas equipment must be installed beneath an extraction hood whose system must have specifications in compliance with the current regulations in the country of use.
	Once the appliance is connected to the power and drain sources, it must remain static (fixed) in the place of use and maintenance. Incorrect connection may cause danger.
	Use where appropriate flexible cable for connection to the mains electricity supply with characteristics not inferior to the type with rubber insulation model H07RN-F. The supply voltage supported by the cable with the appliance working must not differ from the nominal voltage value $\pm 15\%$ shown at the bottom of the technical data table.
	The appliance must be included in an "Equipotential" ground discharge system.
	Drainage of the appliance must be conveyed into the grey water discharge network in an open "glass" unsiphoned formation.
	The appliance must only be used for the purposes indicated. Any other use must be considered "IMPROPER" and therefore the manufacturer declines all liability for any consequent damage to persons or property.
	Particular safety prescriptions (obligation-prohibitions-danger) are detailed in the specific chapter concerning these issues.
	Do not obstruct the heat extraction and/or dissipation openings.

2. GENERAL AND SAFETY INFORMATION



2.1 DUTIES AND QUALIFICATIONS REQUIRED OF OPERATORS

	"Homogeneous" Operator (SPECIALISED TECHNICIAN) Expert operator authorised for handling, transporting, installing, servicing, repairing and scrapping the equipment.
	Prohibition for the homogeneous operator to perform any type of operation (maintenance and/or other) without having first read the entire documentation.
	The information contained in this document is for the exclusive use of the qualified technical operator who is authorised for: handling, installation and maintenance of the appliance in question.
	The technical operators must be trained on all the aspects regarding functioning and safety. The technical operators must interact while respecting the required safety standards.

Work areas and hazardous zones

To better define the scope of intervention and the relevant work zones, the following classification is provided:

- **Dangerous zone:** any zone within and/or in proximity to a machine in which the presence of an exposed person constitutes a risk in terms of the health and safety of such a person;
- **Exposed person:** any person that is found wholly or partly in a dangerous zone.

	Maintain a minimum distance from the appliance when operating in such a way as to avoid endangering the safety of the operator in case of unexpected circumstances.
	The heterogeneous operator must have read this document. In no event may they perform control and maintenance operations that are the responsibility of specialised and authorised personnel (Homogeneous operator).


The following are also danger zones:

- All the work areas within the appliance
- All the areas protected by appropriate safety and protection systems such as safety photocell photoelectric curtains, protective panels, interlocked doors, protective casing.
- All the zones within the control units, electrical cabinets and junction boxes.
- All the zones around the appliance in operation when the minimum safety distances are not being respected.

2.2 EQUIPMENT REQUIRED FOR INSTALLATION

The authorised technical operator, in order to perform the installation operations correctly, must respect the following requirements:





3 and 8 mm screwdriver	Adjustable pipe wrench	Gas use tools (hoses, gaskets etc.)
Flat-head screwdriver and medium sized Phillips-head screwdriver	Electrician's scissors	Water use tools (hoses, gaskets etc.)
8 mm hex socket wrench	Gas leak detector	Tools for electric use (cables, terminal blocks, industrial sockets etc.)
8 mm nut driver	MM 1" nipples	Gas type change kit supplied by the manufacturer

	In addition to the tools listed, an equipment lifting device is required. This equipment must comply with all the regulations relating to lifting equipment.
---	--










2. GENERAL AND SAFETY INFORMATION

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 - 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.

3.1 INTRODUCTION.

The appliance, as the case may be, is sent as described below:

1. Secured to a wooden pallet with internal padding of appropriate packaging material (detail A).

The choice of packaging solution depends on the distance of transportation, on the customer's requirements and the time of storage of the appliance inside the packaging.

The following data is applied to the package:

- destination
- any codes
- safety rules and instructions

Transportation of the machinery can take place in two ways:

by truck

by container.

In both cases there is the same type of packaging.

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.

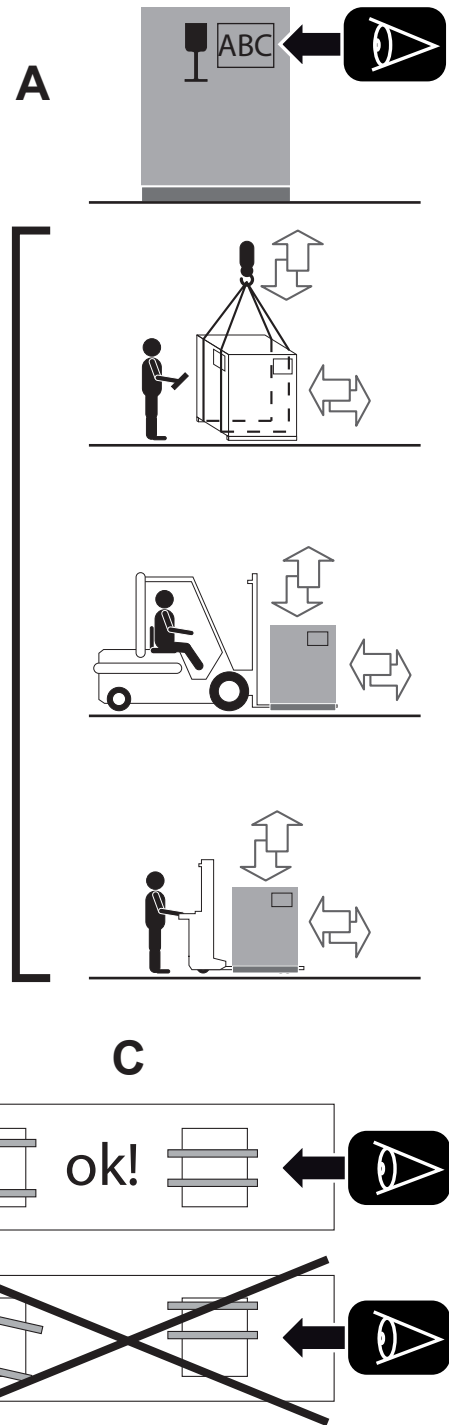
- Position the lifting means paying attention to the centre of gravity of the load to be lifted (detail B-C).
- Lift the appliance enough to move it.
- Place the appliance on the site chosen for final positioning.

3.3 STORAGE

The storage methods of the materials must include pallets, containers, conveyors, vehicles, tools 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







	Disposal of the packing materials is the responsibility of the recipient that should proceed in accordance with the laws in force in the country of installation of the appliance.
	<ol style="list-style-type: none"> 1. Remove in sequence the upper and lower corner protectors; 2. Remove the protective material used for packaging. 3. Lift the appliance as necessary and remove the pallet; 4. Place the appliance on the ground. 5. Remove the means used for lifting. 6. Clean the area of operations from all the material removed.
	Having removed the packaging, there should not be any signs of tampering, dents or other anomalies. Where evidence of these is found, immediately notify the customer 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.

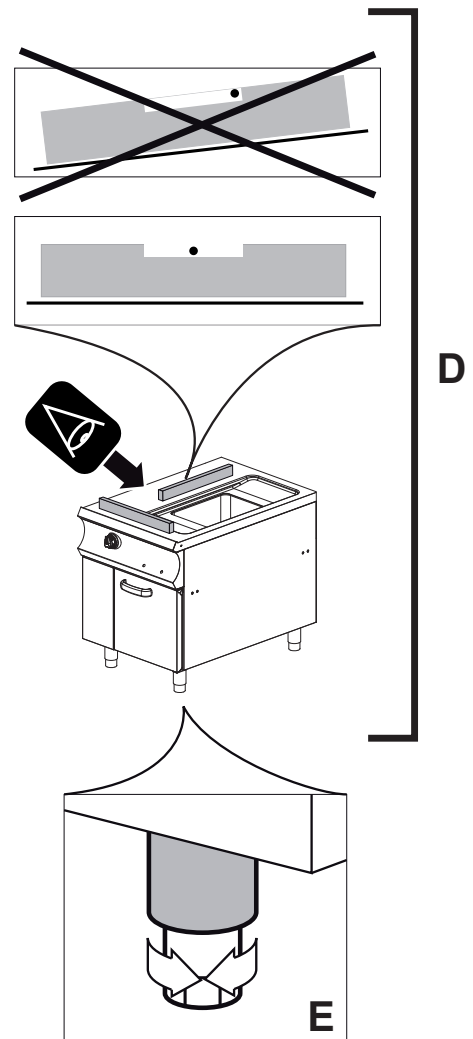
The tasks of levelling and securing include: adjustment of the appliance as a single independent unit.

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.

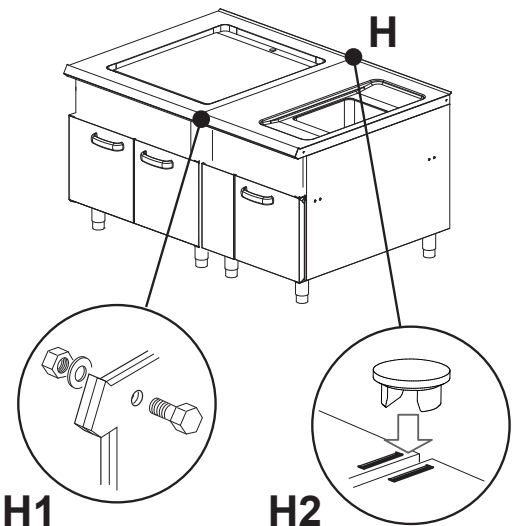
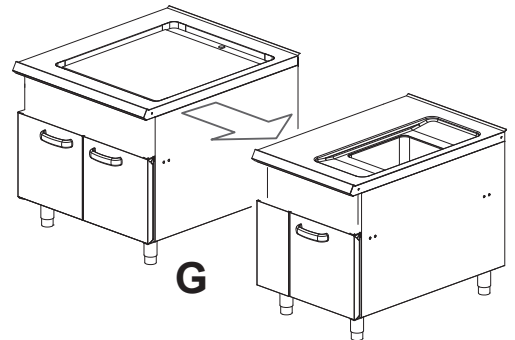
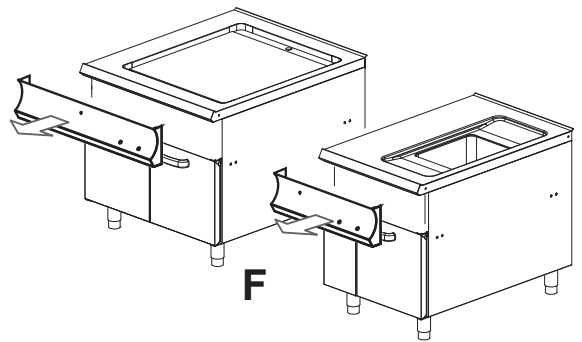
Place the equipments in order to make their sides perfectly adhere (detail G).

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).

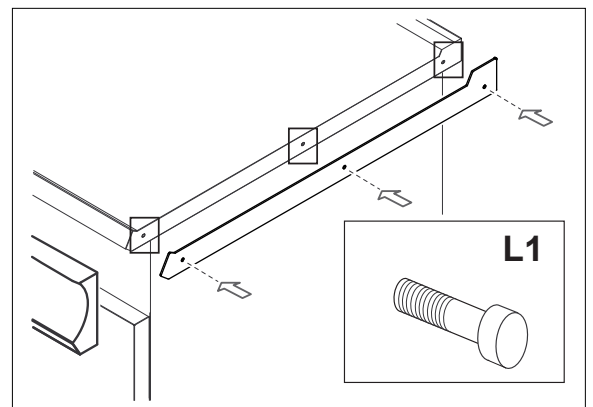
If necessary, repeat levelling and fixing operation sequence for the remaining equipments.



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).

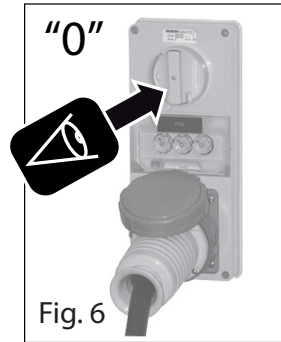


Fig. 6

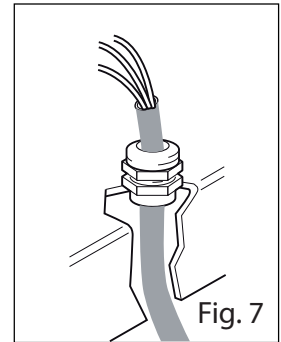


Fig. 7

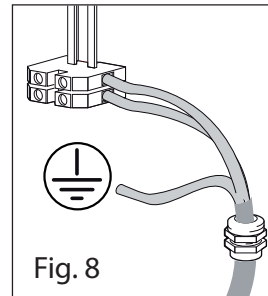


Fig. 8

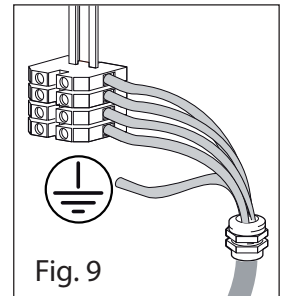


Fig. 9

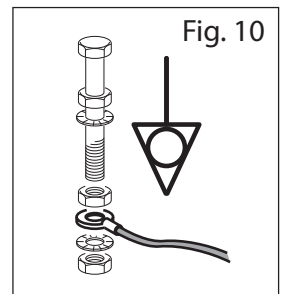


Fig. 10



The equipment must be included in an "Equipotential" earth unground 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.

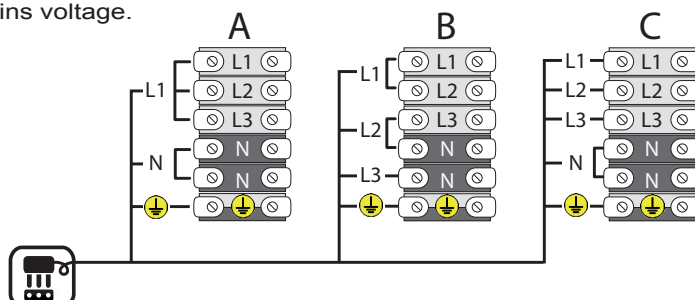


A connection with a wiring harness different from that indicated must be authorized by the manufacturer.

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

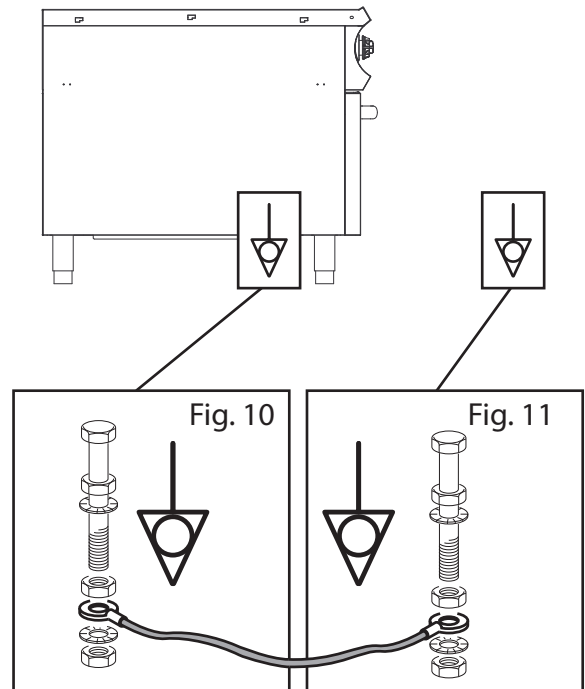
4.2 CONNECTION TO “EQUIPOTENTIAL” SYSTEM

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
	Container cleaning	if necessary

	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.	<ul style="list-style-type: none"> The master switch is not connected. The residual current device or circuit breaker has tripped. 	<ul style="list-style-type: none"> Connect the master switch. Restore the residual current device and/or circuit breaker.
The cooking compartment is stained.	<ul style="list-style-type: none"> Quality of the water. Ineffective detergent. Insufficient rinsing. 	<ul style="list-style-type: none"> Filter the water (see water softener). Use the recommended detergent. Rinse once again.
The light indicators do not turn on.	<ul style="list-style-type: none"> The master switch is not connected. The residual current device or circuit breaker has tripped 	<ul style="list-style-type: none"> Connect the master switch Restore the residual current device and/or circuit breaker

	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
---	---



Deactivation and scrapping of appliance



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

PURSUANT TO the directives (see Sect. 0.1) relating to the reduction of use of the hazardous substances in the electrical and electronic appliance and to the 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 it 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 that will dispose of this equipment should then contact the manufacturer and follow the system that the latter has adopted to enable the separate collection of equipment once it has reached the end of its life.

Appropriate separate collection for subsequent start-up of equipment assigned to recycling, treatment and disposal that is environmentally compatible contributes to avoiding possible negative effects on the environment and on health and promotes the reuse and/or recycling of the materials of which the equipment is composed. Improper disposal of the product by the owner involves the application of administrative penalties under current legislation.



The decommissioning and dismantling of the appliance must be carried out by qualified personnel, either mechanical or electrical, that must wear appropriate personal protective equipment such as protective clothing appropriate to the operations to be performed, protective gloves, safety shoes, head gear and goggles.



Before commencing dismantling of the appliance, ensure around the appliance a space that is large enough and arranged in such a way as to allow all movements without risk.

The following are necessary:

- Disconnect the power supply.
- Disconnect the appliance from the mains.
- Remove the electrical cables exiting the appliance.
- Close the water inlet tap (mains valve) from the mains supply.
- Disconnect and remove the pipes from the appliance water system .
- Disconnect and remove the grey water discharge pipe.



After this operation, a wet area around the appliance may form and therefore, before continuing with operations, dry these wet areas.

After restoring the operational area as described:

- Remove the protective panels.
- Disassemble the appliance in its main parts.
- Separate the parts of the appliance according to their nature (e.g. metals, electrical parts etc.) and deliver them to recycling centres.

1.1 ELECTRIC FRY-TOPS

MODEL			EFT 477... EFTA 477...	EFT 777... EFTA 777...
SIZE	PLATE	L x P	350 x 570	650 x 570
ABSORBED ELECTRIC POWER		Kw	4	8
NET WEIGHT		kg	43 (top) 63	75 (top) 97

MODEL			EFT 408... EFT(A) 498...	EFT 908... EFT(A) 998...
SIZE	PLATE	L x P	380 x 720	780 x 720
ABSORBED ELECTRIC POWER		Kw	6	12
NET WEIGHT		kg	82	135

Tab.1

***VOLTAGE SUPPLY:** 3N AC 415 V; 3 AC 240 V; 1N AC 240 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. 16% less.

L = Smooth Plate

R = Scuffed Plate

LR = 50% L + 50% R Plate

C = Chromed Plate

1.2 TECHNICAL CHARACTERISTICS

- STRUCTURE

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

- **COOKING PLATE** in special steel with high thermal conductivity, in the smooth or grooved versions, with a 18/10 stainless steel anti-spatter screen; C version with a chrome worktop.
- **GREASE WELL DRAWER** in stainless steel AISI 304.
- **ELECTRICAL HEATING** with electrical heating elements in reinforced stainless steel.
- **INDIPENDENT CONTROLS** for each plate zone for varying temperatures in Models EFT(A)7... / EFT(A)9...

INSTALLATION INSTRUCTIONS

Installation must be performed by qualified technicians according to the local law in force.

WARNINGS:

Should the unit be installed against a wall, the latter must be heat-resistant to temperatures of 100°C and must be fireproof. Before proceeding with the installation, remove the protective plastic film from the relevant parts, eliminating any adhesive residues with an appropriate cleaning product suitable for stainless steel. Install the unit in a horizontal position; its correct levelling will be achieved by rotating the adjustable feet. If the unit is installed by itself, it is advisable to fasten it to make its stability safer.

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.

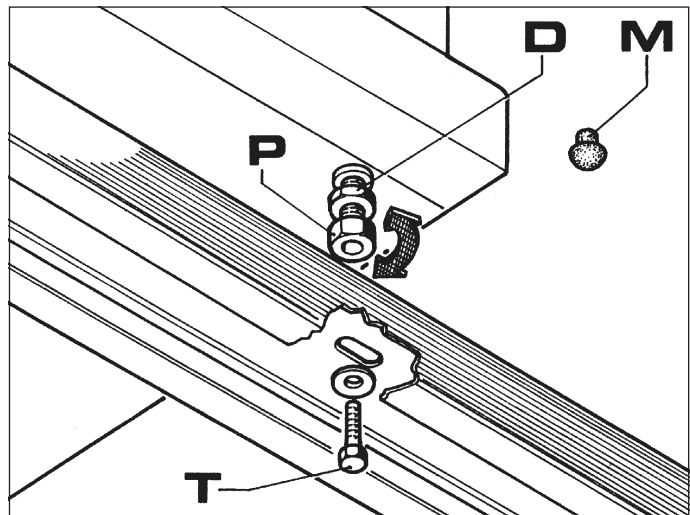
2.4 POSITIONING

- 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 law in force. The screw marked with the label "Equipotential" is located near the terminal box on the base.

2.6.3 POWER SUPPLY CABLE

The unit is supplied fitted for the following voltages:

3N AC 380...415V;

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.

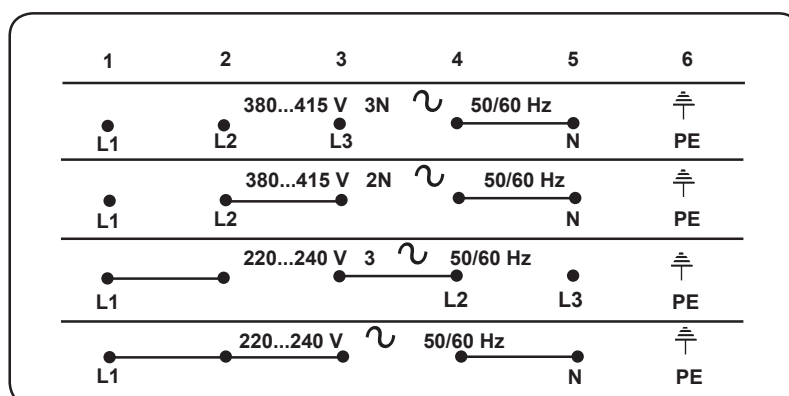
MODEL	EFT 477... EFTA 477...		EFT 777... EFTA 777...		EFT 408... EFT(A) 498...		EFT 908... EFT(A) 998...	
	Max A/f	n° cables mm ²	Max A/f	n° cables mm ²	Max A/f	n° cables mm ²	Max A/f	n° cables mm ²
3N AC 380...415 V 50/60 Hz	5,7	5 x 1,5	5,7 x 2	5 x 2,5	8,7	5 x 1,5	18	5 x 2,5
2N AC 380...415 V 50/60 Hz	9	4 x 2,5	9 x 2	4 x 4	13	4 x 2,5	30	4 x 4
3 AC 220...240 V 50/60 Hz	10	4 x 2,5	10 x 2	4 x 4	15	4 x 2,5	26	4 x 6
1N AC 220...240 V 50/60 Hz	17	3 x 4			26	3 x 4	52	3 x 10

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 L3 (T) black 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 L2 (S) black L1 (R) brown
1 AC 220...240 V 50/60 Hz		PE (earth) yellow-green N (NP) blue N (NP) blue L3 (T) black L2 (S) black 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”. Before replacing any component, you need to cut off power to the unit with the multi-polar switch.

A) Switch and thermostat

- remove the instrument panel
- undo the screws fastening the component
- disconnect the thermostat from the switch, carefully bending the two tabs of the bracket
- remove the thermostat bulb protection and take it out through the slit
- disconnect the wires, following the wiring diagram
- replace the component and reassemble everything, following the wiring diagram
- fit it all back together in reverse order to the above.

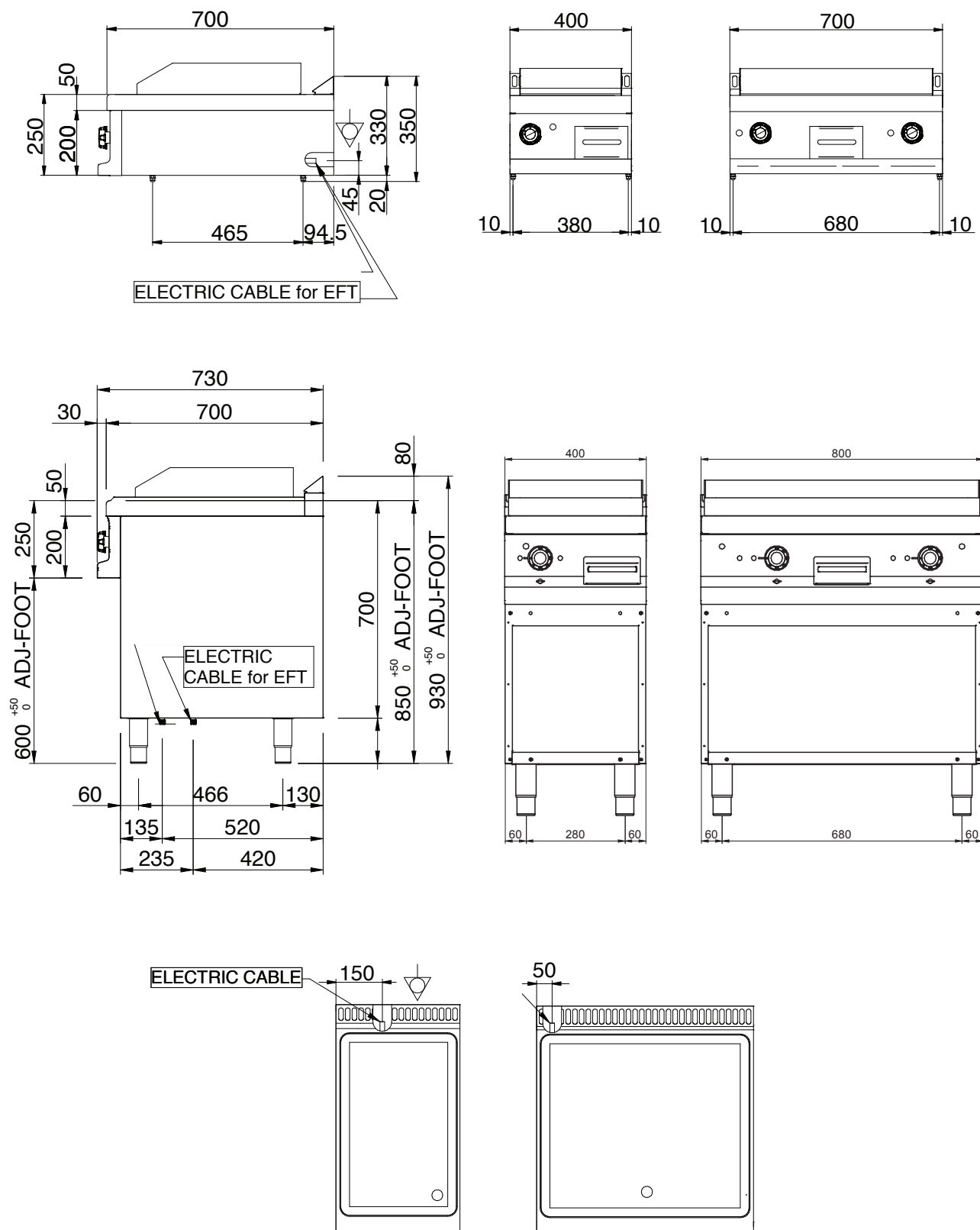
B) Heating elements

- disconnect the wires of the heating elements
- remove the heating element protection box
- remove the brackets fixing the heating element
- replace the part and reassemble everything, following the wiring diagram



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

EFT477/A477 - EFT777/A777



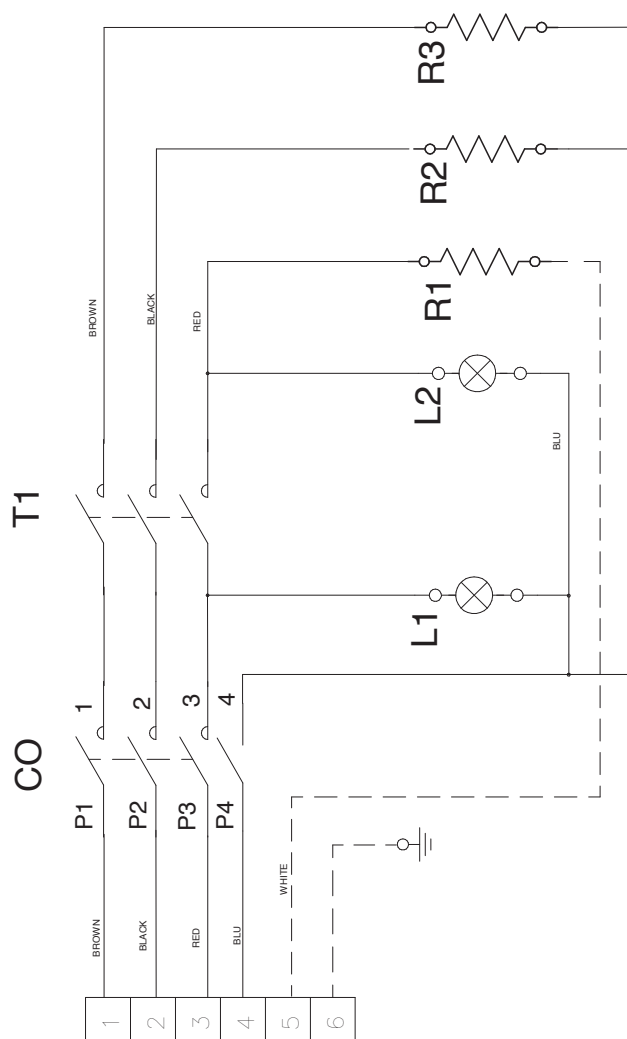
EFT498/998 - EFT408/A498 - EFT908/A998





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

EFT(A)4...

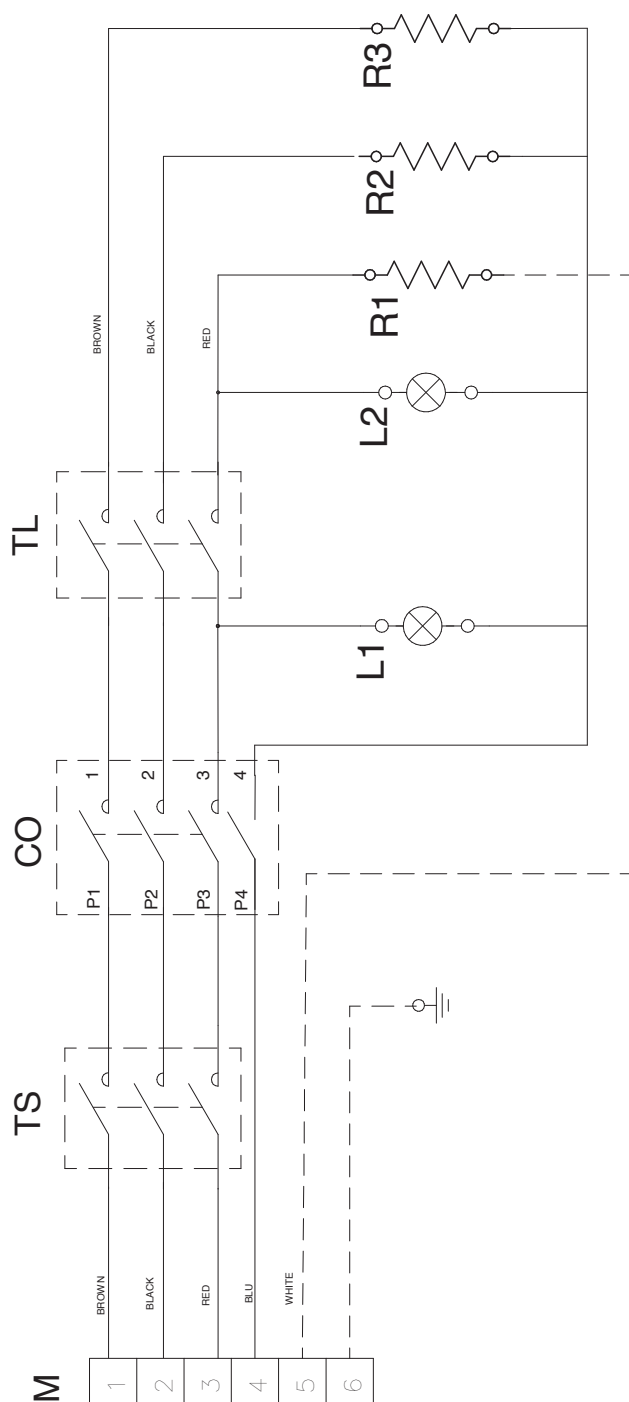


	ITALIANO	FRANCAIS	ENGLISH	DEUTSCH
M	MORSETTIERA	PENNEAU DE CONTRÔLE	TERMINAL BLOCK	KLEMMENLEISTE
CO	COMUTATORE	COMMUTATEUR	SWITCH	HAUPTSCHALTER
T1	TERMOSTATO	THERMOSTAT	THERMOSTAT	THERMOSTAT
R1-R3	RESISTENZA	RESISTANCE	HEATING ELEMENT	ROHRHEIZKÖRPER
L1	LAMPADA VERDE	LAMPE VERTE	GREEN LAMP	GRÜNE LAMPE
L2	LAMPADA ARANCIONE	LAMPE ORANGE	ORANGE LAMP	ORANGE LAMPE



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

EFT(A)7... / EFT(A)9...



	ITALIANO	FRANCAIS	ENGLISH	DEUTSCH
M	MORSETTIERA	PENNEAU DE CONTROLE	TERMINAL BLOCK	KLEMMENLEISTE
CO	COMUTATORE	COMMUTEUR	SWITCH	HAUPTSCHALTER
TL	TERMOSTATO	THERMOSTAT	THERMOSTAT	THERMOSTAT
R1-R3	RESISTENZA	RESISTANCE	HEATING ELEMENT	ROHRHEIZKÖRPER
L1	LAMPADA VERDE	LAMPE VERTE	GREEN LAMP	GRÜNE LAMPE
L2	LAMPADA ARANCIONE	LAMPE ORANGE	ORANGE LAMP	ORANGE LAMPE
TS	TERMOSTATO LIMITE	THERMOSTAT DE SECURITE'	LIMIT THERMOSTAT	SICHERHEITSTHERMOSTAT
TL	TERMOSTATO DI LAVORO	THERMOSTAT DU TRAVAIL	WORKING THERMOSTAT	WOKK THERMOSTAT