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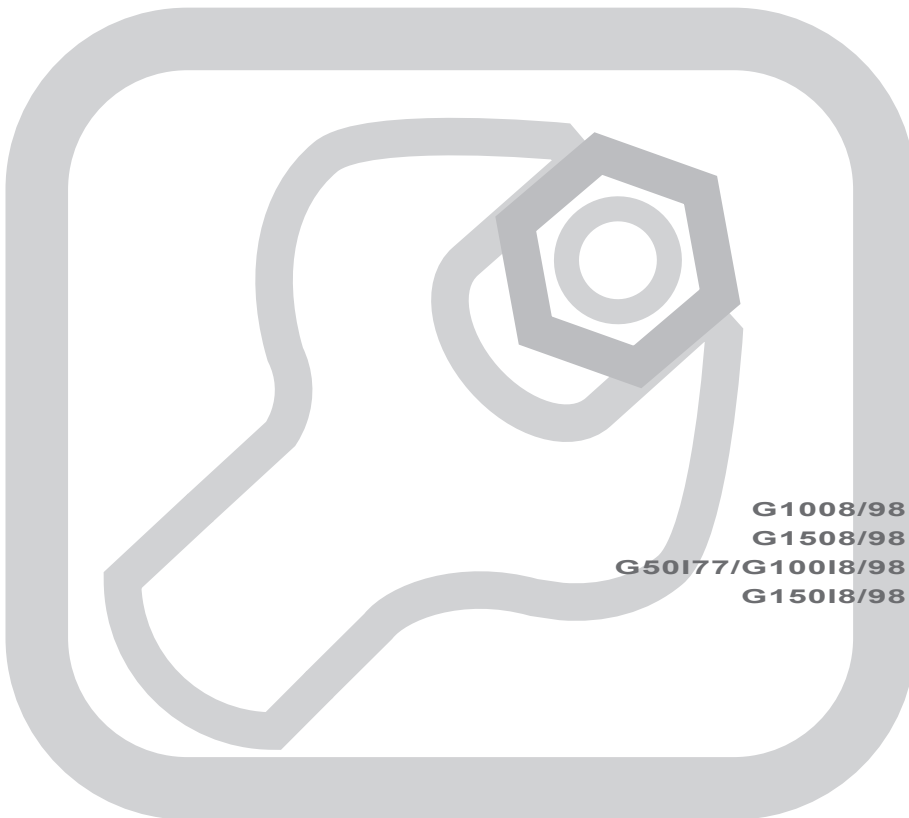
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Diamond
catering equipment

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

EN



**G1008/98
G1508/98
G50I77/G100I8/98
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**GAS
GAZ
GÁS
GAZOWY
ГАЗОВОЕ ИЗДЕЛИЕ**



0. DOCUMENT IDENTIFICATION

0.1 REFERENCE FRAMEWORK

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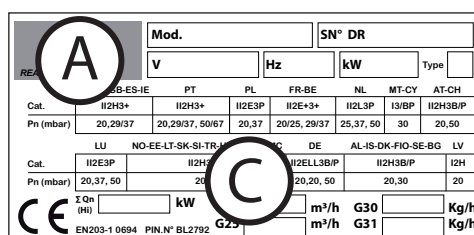
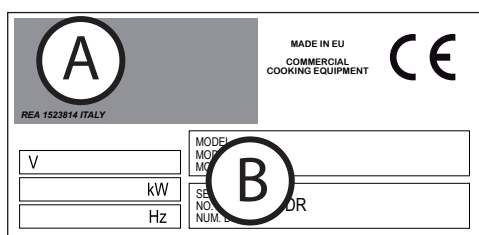
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Targa di identificazione - Identification plate - Plaque d'identification - Placa de identificación - Typenschild - Placa de identificação - Tabliczka identyfikacyjna - Identificatielabel - Паспортная табличка.

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.



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1. INFORMATION FOR OPERATORS

Foreword

Original instructions. 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 machine during its entire life cycle has been carefully assessed both during designing and during preparation of 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 designed for the exclusive use of the homogeneous operator (trained and authorised technician) i.e. all the operators authorised to move, transport, install, maintain, repair and scrap the appliance. Homogeneous operators are advised to read the service manual in order to have a general overview 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 appliance 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 the electrical system in compliance with the regulatory provisions in force in the place of installation;
- sufficient lighting, in compliance with the standards in force in the place of installation;
- safety devices upstream and downstream of the energy supply line (residual current devices, equipotential earthing systems, safety valves, etc.) foreseen by the legislation in force in the country of installation;
- earthing system in conformity with the regulations in force in the place of installation
- 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 carried in the respective paragraphs.

Allowed operational and environmental conditions

The appliance has been designed to operate only inside of 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 devices positioned perfectly level;
- 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 greywater, and must have switches and gate valves which cut all types of supply upstream the appliance when needed;
- Walls/surfaces immediately close/contact to the appliance must be fireproof and/or isolated from possible source of heat.

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 unadvised 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 means the permission to undertake an activity related to the appliance.

Authorisation is given by the entity who is responsible for the appliance (manufacturer, purchaser, signatory, dealer and/or owner of the premises).

2. GENERAL AND SAFETY INFORMATION

Description of pictograms

	Danger indications Immediate hazardous situation which could result in serious injury or death. Possibly dangerous situation that could cause serious injury or death.
	High voltage! Caution! Danger of death! Non-observance can cause serious injury or death
	Risk of high temperatures, non-compliance may result in serious injury or death.
	Danger of leakage of high-temperature materials, non-observance can cause serious injury or death.
	Danger of crushing of limbs during handling and/or positioning, non-compliance may result in serious injury or death.
	Prohibition indications Unauthorised persons (including children, disabled individuals and people with limited physical, sensory and mental abilities) are prohibited from performing any procedures. 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. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
     	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 instructions

	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 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! • 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.
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2. GENERAL AND SAFETY INFORMATION

2.3 INDICATION ON RESIDUAL RISKS

Even 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, it has not been 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 unintentionally coming into contact with containers too full of liquids and/or solids which when heated change morphology (passing from a solid state to a liquid state) and 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; • using with flammable liquids (such as alcohol).
	Residual risk of fire This risk remains when: • the pot is used as a fryer.

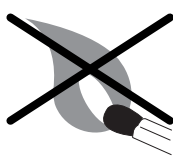
2.4 OPERATIONAL MODE FOR A SMELL OF GAS IN THE ENVIRONMENT

	If there is a smell of gas in the environment, it is mandatory to urgently implement the procedures described below.
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- Immediately stop the gas supply (Close the network tap, detail A).
- Ventilate the room immediately.
- Do not operate any electrical device in the environment (Detail B-C-D).
- Do not operate any device which could produce sparks or flames (Detail B-C-D).
- Use a means of communication that is external to the environment where there is a smell of gas to warn the relevant entities (electricity operator and/or fire-fighters).



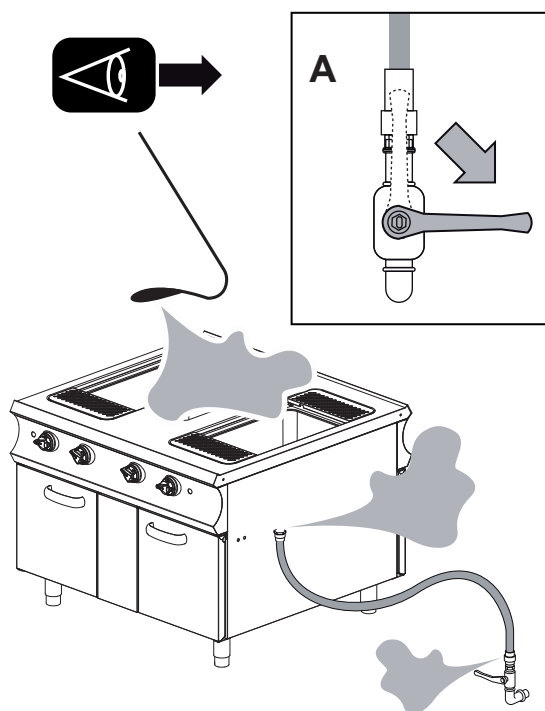
B



C



D



3. POSITIONING AND HANDLING

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

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.

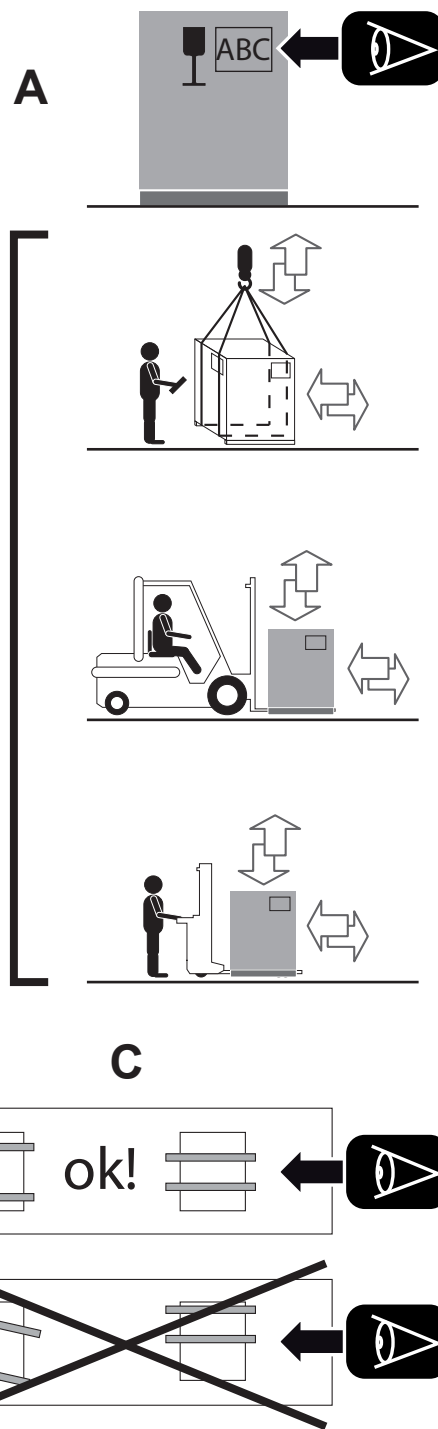
- Position the lifting means paying attention to the centre of gravity of the load to be lifted (detail B-C).
- Lift the appliance enough to move it.
- Place the appliance on the site chosen for final positioning.

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.
	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. POSITIONING AND HANDLING

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.

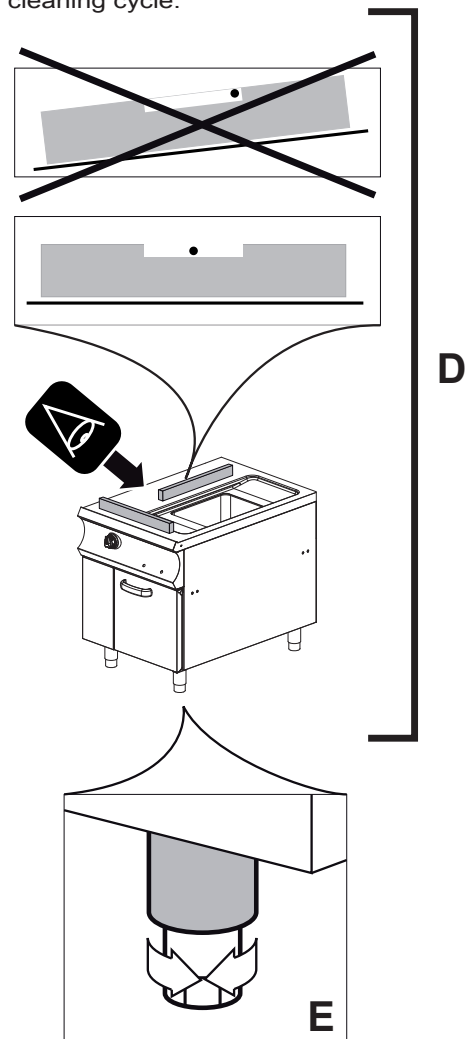
The tasks of levelling and securing include: adjustment of the appliance as a single independent unit.

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

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



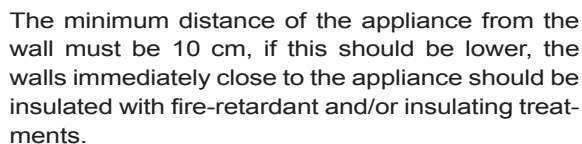
Perfect levelling is achieved by adjusting level and feet on the width and depth of the appliance.



3.

“Series” assembly

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



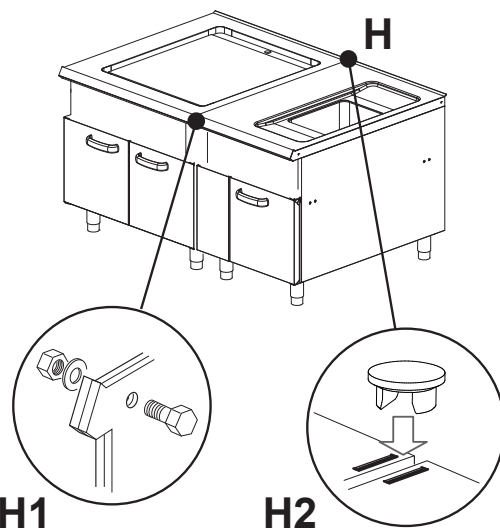
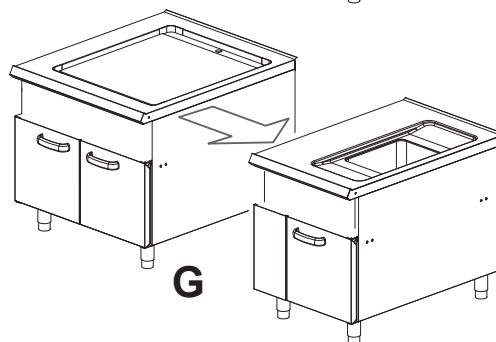
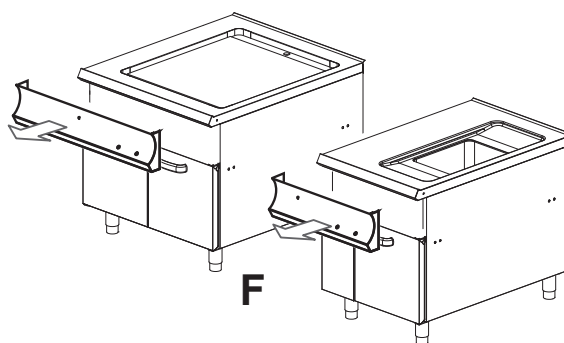
Place the equipments in order to make their sides perfectly adhere (detail G).

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)

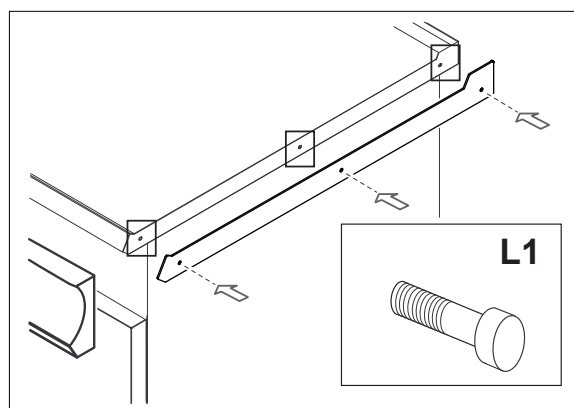
If necessary, repeat levelling and fixing operation sequence for the remaining equipments.



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. POWER SUPPLY CONNECTIONS

GENERAL WARNINGS



These operations must be performed by qualified and authorised operators, in accordance with the laws in force and using the appropriate materials described.



Before making the connection check the data shown on the rating plate of the appliance and the technical data in this manual.



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.



On the power supply lines (electric, gas and water) must be installed switches and gate valves that exclude the power whenever it is necessary to operate the appliance safely.



The appliance must be included in an "Equipotential" ground discharge system.



The gas equipment type A3 must be installed under an extraction hood that must be switched on during operation.



The appliance is delivered without electric mains supply cable, without pipes for connection to the water, drainage and gas networks.

4.1 CONNECTION OF THE WATER SUPPLY



You must fit an approved double check valve to conform to your local water regulations. It is imperative to connect it to the water solenoid valve before connecting the appliance to the water supply (WRAS)



Add the process for the install testing (WRAS)

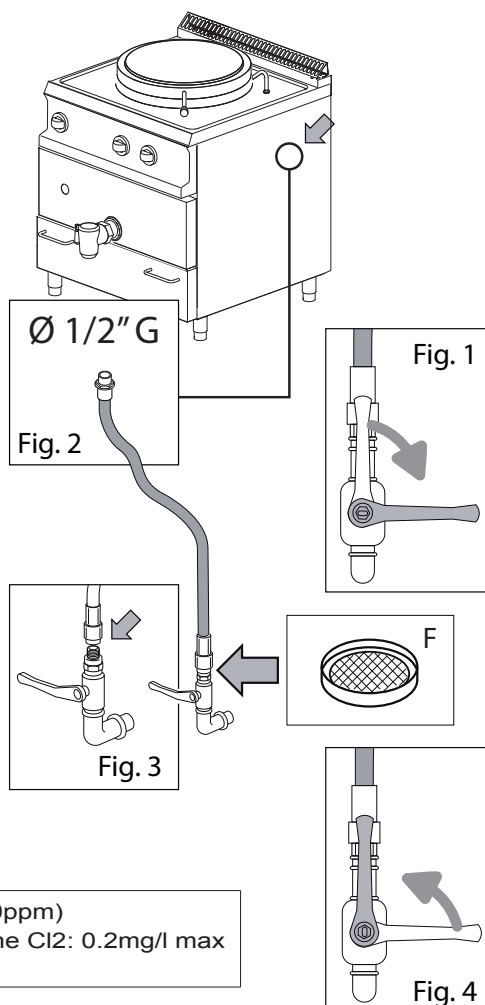
To perform a correct installation, it is essential that:

1. the appliance is supplied with drinking water with an operating pressure of minimum 200 kPa to a maximum of 400 kPa. In addition, a flow rate of 1.5 l/min must be ensured and the ability to withstand a temperature below 25°.
2. The water inlet pipe is connected to the distribution network by means of a check valve (easily identifiable and accessible by the operator) to be shut off when the appliance is not operating or for the purposes of maintenance (Fig. 1).
3. Between the check valve and the pipe that connects the appliance is installed a mechanical filter to prevent entry of any ferrous slag that, oxidising, may affect and result in oxidation over time of the tank.



It is advisable before connecting the last section of the attachment to allow the outflow of a certain amount of water to flush the pipe of any ferrous slag.

- Connect one end of the supply pipe to the attachment of the appliance (Fig. 2);
- Connect the other end of the pipe provided with filter to the check valve (Fig. 3-3F).
- Open the check valve and visually check the tightness of the connection (Fig. 4).



Water Specifics

Hardness: Softened Max. 7°TH (5°e, 4°h, 70ppm)
Quality: Chloride Cl⁻: 100 mg/l max. / Chlorine Cl₂: 0.2mg/l max
Conductivity: Min 20 µS/cm

4. POWER SUPPLY CONNECTIONS

4.2 CONNECTION TO GREY WATER DRAINAGE SYSTEM

A correct installation requires the following conditions:

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



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

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

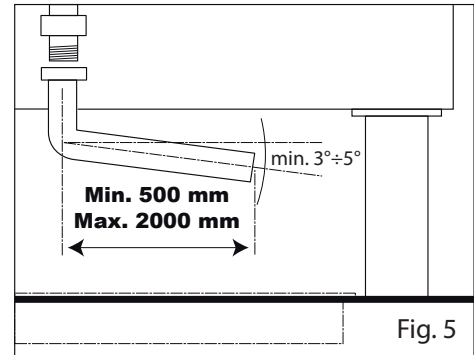
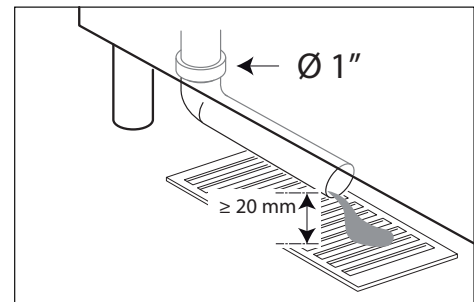


Fig. 5

See schematic drawing (Fig. 5).

4.3 GASPOWER CONNECTION

Features of the installation site

The premises for installation of the appliance must be equipped with features such as:

- Air premises according to the provisions required by the local regulations in force.
- The extraction hood above the appliance must be in operation during use of the appliance itself.
- The distance between the appliance and the filter of the extraction hood must be at least 20 cm.



Once the appliance is connected to the power and drain sources, it must remain static (fixed) in the place of use and maintenance

Gas connection type A1 (under hood)



A safety valve must be installed on the network upstream of the main supply line. It must be easily identifiable and accessible by the operator (Fig. 3)



A flexible gas pipe, no longer than 1.5 m (compatible with threads specified in EN ISO 228-1 or EN 10226-1/-2) is required to connect to the network



The gas supply pipe must comply with local regulations in force and must be periodically reviewed and/or replaced in accordance with local conformities in force, by authorised personnel



The outlet from the appliance is "male" type and 1/2" G. The connection pipe must be of "female" type and 1/2" G as described by local standards.

4. POWER SUPPLY CONNECTIONS

Close (if applicable) the mains supply valve (Fig. 8).

Connect the pipe for connection from the network valve to the appliance (Fig. 8-9).



The pipes must be screwed firmly to their attachment points.

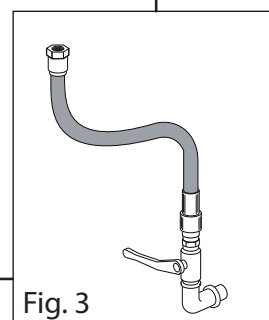
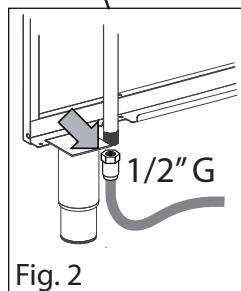
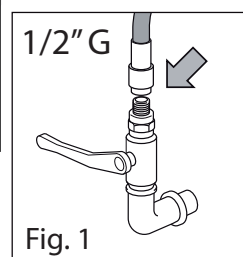
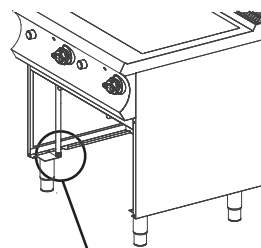


Conduct a test to ensure that there are no gas leaks once the network gate valve is open (Fig. 10).

Upon completion of the operations describe, close the network gate valve (Fig. 7).



If it is necessary to replace the nozzle to conform to another type of gas supply, see the procedure described in the Operations for commissioning (ch. 5)



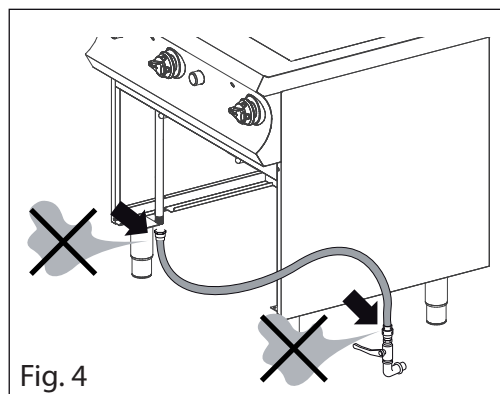
4.4 GAS TYPE CHANGE



The appliance comes from the factory with setting to the type of power indicated on the plate. Any other configuration that changes the parameters set must be authorised by the manufacturer or by its representative.



The transformation from one type of power to another must be performed by qualified technical personnel authorised to perform the operation in question. The correct procedure to be implemented for the transformation is described in the relevant manual.



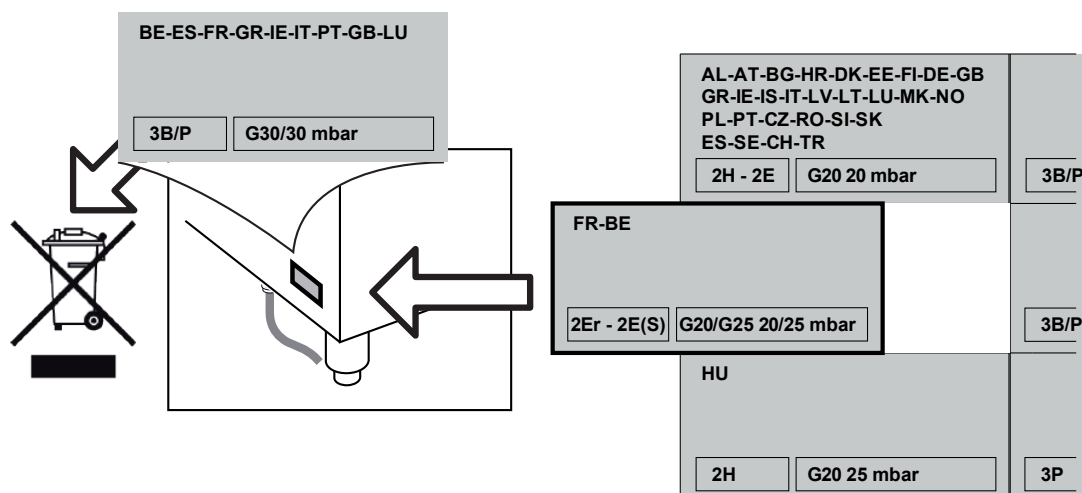
Injectors - By Pass - Pilot injectors - Apertures - and anything necessary for any gas transformation must be requested directly from the manufacturer.



At the end of the transformation from one type of power to another, change the label on the appliance with new the parameters reported on the adhesive document provided.



Two plates may need to be replaced in certain cases (oven equipment), one outside near the gas attachment and one inside.



5. OPERATIONS FOR COMMISSIONING

GENERAL WARNINGS



Operators have a duty to familiarise themselves adequately, using this manual before performing any intervention, adopting the specific safety requirements to make every kind of human-computer interaction safe.



Any technical modification that affects the operation or safety of the machine must only be carried out by the technical personnel of the manufacturer or by technicians that are formally authorised by the manufacturer. Failure to do so exempts the manufacturer from any liability for any possible resulting modifications or damage.



Even after appropriate familiarisation, upon the first use of the appliance, in any case simulate a number of test operations to save more rapidly the main functions of the appliance, e.g. start-up, shut-down, etc.



The appliance is provided already tested by the manufacturer and fitted with the type of gas and electrical supply specified on the rating plate applies.

5.1 FIRST COMMISSIONING START UP

Upon completion of the operations of positioning and connection to the power sources including those relating to the drainage network, perform a series of operations such as:

1. Cleaning away of the protective materials (oils, grease, silicones, etc.) inside and outside of the cooking chamber (see section 3.5)
2. Analysis of the combustible gases (only for models with gas supply).
3. General checks and controls such as: Check opening of switches & network gate valves (water, electricity, gas when applicable); Checking of drains; Checking and monitoring of the external fumes/vapour extraction; Checking and monitoring of the protection panels (all the panels must be fitted correctly).

5.2 CONTROL AND REGULATION OF THE GROUPS GAS SUPPLY



With the connection operations described in the previous sections completed, the appliance, even if correctly calibrated during the testing phase, requires partial verification of the parameters set directly at the place of final destination.



The first parameter to be checked allows verification via the type of power supplied by the body dispensing the correct pressure present.

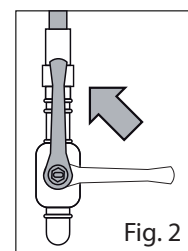
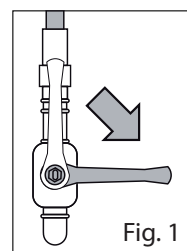
5. OPERATIONS FOR COMMISSIONING

5.3 PRESSURE DETECTION GAS INLET

The pressure is measured with a $0 \div 80$ mbar pressure measurer.

The pressure intake is usually next to the gas coupling on the supply ramp.

- Close the cut-off cock upstream the machine (Fig. 1);
- unscrew the pressure intake screw (Fig. 3);
- place the instrument for the detection (pressure measurer);
- Open the cut-off cock upstream the machine (Fig. 2);
- Turn on the burners at the maximum power and detect the pressure read by the instrument.



Once the read-out is finished:

- Close the cut-off cock upstream the machine (Fig. 1).
- Reassemble the screw with gas seal washer in the appropriate seat, open the cut-off cock upstream the machine (Fig. 2) and check there are no gas leakages.



If the measured pressure is lower than the 20% compared to the nominal pressure (ex. G20 20 mbar $\leq$ 17 mbar) suspend the installation and contact the gas distribution service.



If the measured pressure is higher than the 20% compared to the nominal pressure (ex. G20 20 mbar $\leq$ 25 mbar) suspend the installation and contact the gas distribution service.



The constructor firm does not recognise the machines warranty in case the gas pressure is lower or higher than the values above described.

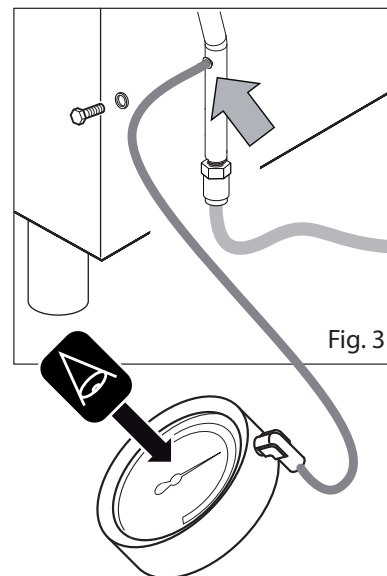


Make sure there are no gas leaks



After controlling the pressure and type of gas supply intervention may be required, such as:

1. Replacement of the nozzle (in the case where the type of network gas is different from that for which the appliance is preset- vd. cap. 6)



5. OPERATIONS FOR COMMISSIONING

5.4 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.

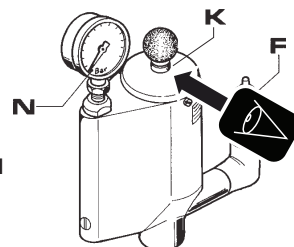
5.5 COMMISSIONING FOR INITIAL START-UP



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).



Remove the rubber ring of the jacket safety valve (see part. K).



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. GAS TYPE CHANGEOVER

6.1 UPSTREAM DYNAMIC PRESSURE CONTROL

Check the pressure by referring to the procedure described in par. 5.3

6.2 INJECTOR PRESSURE CONTROL

The pressure is measured with a 0 ÷ 80 mbar pressure measurer.

The pressure intake is placed usually above the nozzle holder,

- Close the cut-off cock upstream the machine (Fig. 1);
- unscrew the pressure intake screw (Fig. 4);
- place the instrument for the detection (pressure measurer);
- Open the cut-off cock upstream the equipment (Fig. 2);
- turn on the burners at the maximum power and detect the pressure read by the instrumen

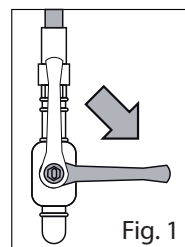


Fig. 1

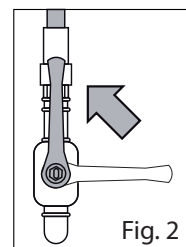


Fig. 2

Once the read-out is finished:

- Close the cut-off cock upstream the machine (Fig. 1).
- Reassemble the screw with gas seal washer in the appropriate seat, open the cut-off cock upstream the machine (Fig. 2) and check by turning the burner on, that there are no gas leakages.



If the measured pressure is lower than the 20% compared to the entry pressure, suspend the installation and contact the authorized customer care service



If the measured pressure is higher than the entry pressure, suspend the installation and contact the authorized customer care service

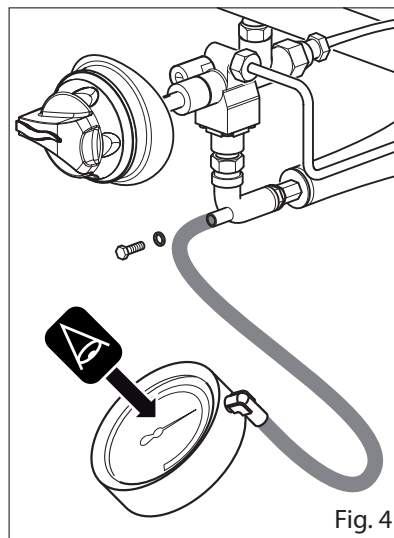


Fig. 4

6.3 REPLACEMENT OF PILOT BURNER INJECTOR

- Close the shut-off valve upstream of the equipment.
- Open the lower hatch of the pot

MODEL 700

- Disassemble the burner body
- Disassemble the plug to avoid damaging it while replacing the injector (Fig. 1/B).
- Unscrew the nut and remove the pilot injector (the injector is attached to the double cone).
- Replace the pilot injector (Fig. 1/A) with that which corresponds to the selected gas as indicated in the Reference table.
- Tighten the nut with the new injector.
- Reassemble the plug.
- Ignite the pilot burner to make sure there are no gas leaks.

MODEL 980

- Remove the insulation protection panel.
- Unscrew the nut and the pilot injector.
- Replace the pilot injector (Fig. 1/A) with that which corresponds to the selected gas as indicated in the Reference table.
- Tighten the nut with the new injector.
- Ignite the pilot burner to make sure there are no gas leaks.

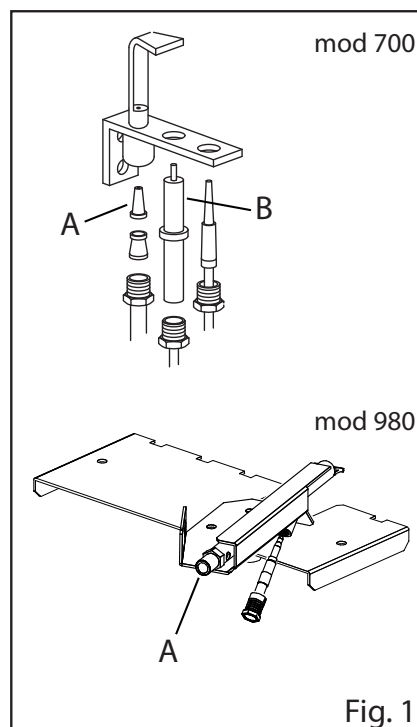


Fig. 1

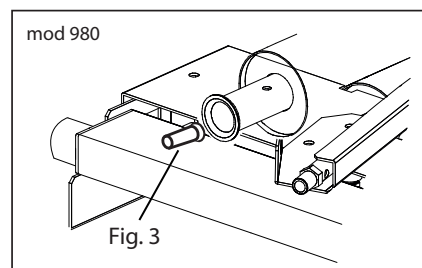
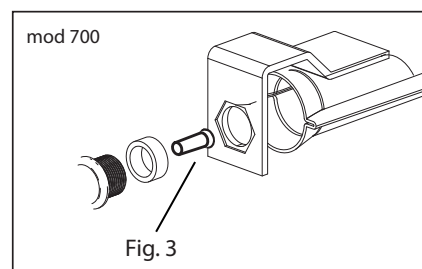
6. GAS TYPE CHANGEOVER

6.4 REPLACEMENT OF BURNER INJECTOR

- Close the cut-off cock upstream the machine.
- Unscrew the injector (Fig. 3)
- Replace the injector (Fig. 1) with the one corresponding to the selected gas according to what reported in the reference Table.
- Screw the new injector.



Make sure there are no gas leaks



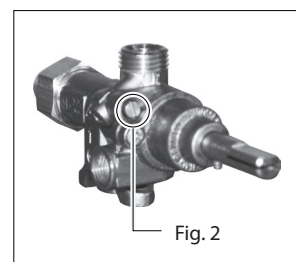
6.5 ADJUSTMENT OF MINIMUM THERMAL RANGE

In the provided models, the reduced thermal range is obtained with the “sized” by-pass minimum screw (Fig. 2), screwed hard (see reference Gas Table).

- Open the cut-off cock upstream the machine;



In case of screw replacement put a tampering detecting seal on it at the end of the detection process



7. REPLACING COMPONENTS



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

Before proceeding refer to par. 2.2 and:

1. Remove the knobs and the panel (Fig. 1/A)

7.1 REPLACING THE TAP

Unscrew the gas inlet (e.g. Fig. 2/E) and outlet (Fig. 2/A and B) connections

- Unscrew the supply of the pilot burner (Fig. 2/D)
- Unscrew the thermocouple (Fig. 2/D)
- Reassemble the new tap
- Retighten all the connections



Check the gas seal with the special tools

7.2 REPLACING THE VALVE (indirect)

Unscrew the gas inlet (e.g. Fig. 2/E) and outlet (Fig. 2/A and B) connections and the electrical connections

- Unscrew the supply of the pilot burner (Fig. 2/D)
- Unscrew the thermocouple (Fig. 2/D)
- Reassemble the new tap
- Retighten all the connections



Check the gas seal with the special tools

7.3 REPLACING THE THERMOCOUPLE

- Unscrew the pilot body (only for models 980 - Fig. 3/E)
- Unscrew the thermocouple from the tap (Fig. 2/D)
- Unscrew the thermocouple from the pilot (Fig. 3/A for 700 - Fig. 3/F for 980)
- Reassemble the new thermocouple and tighten the connections

7.4 REPLACING THE PLUG

Unscrew the pilot body (only for models 980 - Fig. 3/E)

- Disconnect the high voltage cable of the plug (Fig. 3/B for 700 - Fig. 3/G for 980)
- Unscrew the nut (Fig. 3/C for 700 - Fig. 3/H for 980)
- Reassemble the new plug
- Connect the high voltage cable (Fig. 3/B for 700 - Fig. 3/G for 980)

7.5 REPLACING THE PIEZOELECTRIC

- Remove the pot drain taps, cavity load and cavity level (Fig. 1/B)
- Remove the central panel (Fig. 1/C)
- Disconnect the cable from the piezoelectric igniter (Fig. 3/D)
- Remove the igniter to be replaced
- Reassemble the new piezoelectric igniter



When placing the removed parts back, do not invert their position

Once completed, reassemble:

1. The panel, the knobs (Fig. 1/A) and the panel (Fig. 1/B)



If necessary, contact the authorised assistance and refer to the Technical Manual

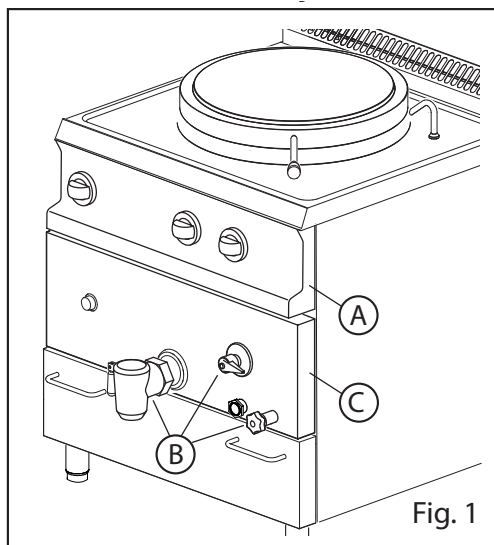


Fig. 1

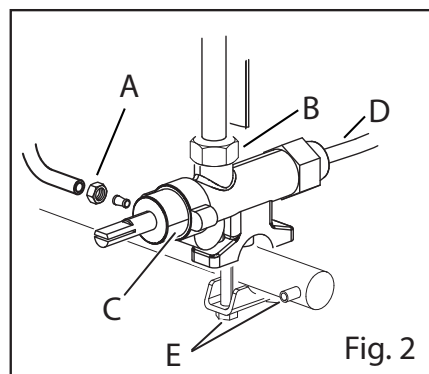


Fig. 2

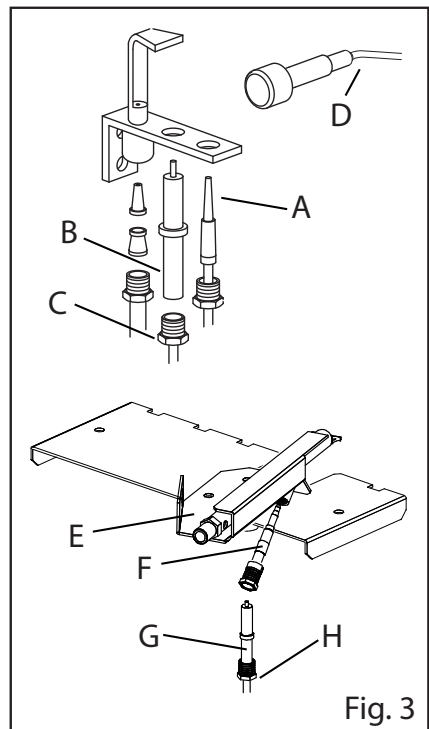


Fig. 3

8. 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
	Cleaning appliance	Daily
	Cleaning parts in contact with foodstuff	Daily
	Cleaning flue	In case of need
	Checking thermostat	Yearly
	Checking safety valve	Every 6 months
	Greasing gas tap	In case of need

	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 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

8. MAINTENANCE

Troubleshooting



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

FAULT	POSSIBLE CAUSE	INTERVENTION
The appliance does not turn on	- The main switch is not connected - The residual current device or circuit breaker has tripped	- Connect the main switch - Restore the residual current device or circuit breaker
The water is not discharged	The drain is clogged	- Clean the drain filter - Free the drain from residues
The inner walls of the tank are covered with limestone	The water is too hard; the softener is finished	- Connect the appliance to a water softener - Regenerate the water softener. - Descale the cooking compartment
The cooking compartment is stained	- Water quality - Poor cleanser - Insufficient rinse	- Filter the water (see Technical Manual) - Use the recommended detergent - Rinse again
The gas appliance does not turn on	- Gas valve shut - Air inside pipes - Faulty piezoelectric igniter	- Open the gas valve - Repeat the ignition operations - Replace the piezoelectric
The pilot does not go on	- No Gas - The pilot does not remain on - Clogged pilot nozzle - Pilot nozzle not suitable - The valve does not emit gas to the pilot	- Open the Gas supply valve - Check the safety thermostat efficiency (see Technical Manual) or the thermocouple - Clean or replace the nozzle hole - Replace the pilot nozzle - Check the ignition consent contacts / Replace the gas valve
The main burner does not go on	- With the pilot on - Valve tap or damaged gas valve	- Check the efficiency of the operating thermostat or pressure switch (see Technical Manual) - Replace the valve tap (see Technical Manual) - Replace the gas valve (see Technical Manual)
The main burner does not go on (indirect)	- No water inside the cavity - Damaged cavity pressure switch	- Fill the cavity - Replace the pressure switch
Excessive bleeding of the safety valve	- Water level too high - Limescale inside the cavity	- With the machine not in use, open the overflow valve and drain the excess water - Descale the cavity (see Technical Manual)
The cavity is not loaded (indirect)	- No water - Damaged valve - Pipes clogged with limescale	- Open the mains tap - Replace the cavity filling valve - Remove limescale from the pipes or replace them
No hot/cold water comes out of the pot load spout	- No water - Damaged water valve - Pipes clogged with limescale	Open the mains tap / Replace the cavity filling valve / Remove the limescale from the pipes or replace them



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



Deactivation and scrapping of appliance



OBLIGATION OF DISPOSING OF 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.



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

MODELLO	Dimensioni pentola (cm)	Capacità vasca (lt)	Bruciatori gas (kW)	Resistenze el (kW)	Tot (kW)	Consumi totali gas						Alim (kW)	
						G20 m³/h	G25 m³/h	G25.1 m³/h	G25.3 m³/h	G30 kg/h	G31 kg/h		
MODEL	Tank dimensions (cm)	Tank capacity (lt)	Gas burners. (kW)	El. heating elements (kW)	Tot (kW)	Total gas consumption						El supply (kW)	
						G20 m³/h	G25 m³/h	G25.1 m³/h	G25.3 m³/h	G30 kg/h	G31 kg/h		
MODELE	Dimensions de la cuve (cm)	Capacite cuve (lt)	Bruleurs gaz (kW)	Résistances électriques (kW)	Tot (kW)	Consommation totale de gaz						Alim électrique (kW)	
						G20 m³/h	G25 m³/h	G25.1 m³/h	G25.3 m³/h	G30 kg/h	G31 kg/h		
MODELO	Dimensiones balde (cm)	Cabida balde (lt)	Quemador gas (kW)	Resistencias eléctricas (kW)	Tot (kW)	Consumo total de gas						Alim eléctrica (kW)	
						G20 m³/h	G25 m³/h	G25.1 m³/h	G25.3 m³/h	G30 kg/h	G31 kg/h		
MODELL	Wanneabmes- sungen (cm)	Wanne- faehigkeit (lt)	Gasbrenners (kW)	Elektrischen heizungen (kW)	Tot (kW)	Gesamt Gasverbrauch						Stromver- sorgung (kW)	
						G20 m³/h	G25 m³/h	G25.1 m³/h	G25.3 m³/h	G30 kg/h	G31 kg/h		
SU ARMADIO / ON CABINET / SUR ARMOIRE / SOBRE ARMARIO / AUF SCHRANK													
🔥	G50I77	40x42	50	12.5	-	12.5	1,322	1,537	1,535	1,503	0,985	0,971	-
🔥	G1008/98	60x42	100	21	-	21	2,220	2,583	2,578	2,525	1,655	1,630	-
🔥	G1508/98	60x54	150	21	-	21	2,220	2,583	2,578	2,525	1,655	1,630	-
🔥	G100I8/98	60x42	100	21	-	21	2,220	2,583	2,578	2,525	1,655	1,630	-
🔥	G150I8/98	60x54	150	21	-	21	2,220	2,583	2,578	2,525	1,655	1,630	-
TOP													
🔥	G100T98	60x42	100	21	-	21	2,220	2,583	2,578	2,525	1,655	1,630	-
🔥	G150T98	60x54	150	21	-	21	2,220	2,583	2,578	2,525	1,655	1,630	-
🔥	G100IT98	60x42	100	21	-	21	2,220	2,583	2,578	2,525	1,655	1,630	-
🔥	G150IT98	60x54	150	21	-	21	2,220	2,583	2,578	2,525	1,655	1,630	-



INFORMATION ON NEW GAS DUTCH

The appliance was configured for the appliance category K (I2K) and is suitable for the use of G and G+ distribution gases according to the specifications as included in the NTA 8837:2012 Annex D with a Wobbe index of 43.46 – 45.3 MJ/m³ (dry, 0 °C, upper value) or 41.23 – 42.98 (dry, 15 °C, upper value). This appliance can moreover be converted and/or be calibrated for the appliance category E (I2E). This therefore implies that the appliance “is suitable for G+ gas and H gas or is demonstrably suitable for G+ gas and can demonstrably be made suitable for H gas” within the meaning of the “Dutch Decree of 10 May 2016 regarding amendment of the Dutch Gas Appliances Decree and the Dutch Commodities (Administrative Fines) Act in connection with the changing composition of gas in the Netherlands as well as technical amendment of some other decrees.



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



1. I diametri degli ugelli sono espressi in 1/100mm – The diameter of the nozzles are indicated in 1/100mm - Le diamètres des gicleur sont exprimés en 1/100mm - Diameter der Düsen ist in 1/100mm angegeben – Los diámetros de las boquillas se indican en 1/100mm
 2. RDA: Regolazione dell' aria primaria; Regulation of primary air; Réglage de l'air primaire; Primärlufteinstellung; Regulación de la entrada del aire

AT	Austria	EE	Estonia	IS	Iceland	PL	Poland
AL	Albania	ES	Spain	IT	Italy	PT	Portugal
BE	Belgium	FI	Finland	LT	Lithuania	RO	Romania
BG	Bulgaria	FR	France	LV	Latvia	SE	Sweden
CH	Switzerland	GB	United Kingdom	LU	Luxembourg	SI	Slovenia
CY	Cyprus	GR	Greece	MK	Macedonia	SK	Slovakia
CZ	Czech Republic	HR	Croatia	MT	Malta	TR	Turkey
DE	Germany	HU	Hungary	NL	Netherland		
DK	Denmark	IE	Ireland	NO	Norway		

IT, IE, GR, GB, ES, PT, BG, CZ, DK, FI, EE, SE, HR, LT, LU, LV, NO, PL, RO, SI, SK, TR, AL, MK				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza nominale - Nominal thermal power - Puissance thermique nominale - Nominal - Wärmeleistung - Potencia tèrmica nominal	(kW)		12,5	21
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas	G20	m³/h	1,322	2,220
	G30/31	kg/h	0,985/0,971	1,655/1,630
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G20 20 mbar*		245/350L	200/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G20 20 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G30/31 28-30/37 mbar*		175K	140K
	G30/G31 30/30 mbar			
	G31 37 mbar*			
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			95	130
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G30/31 28-30/37 mbar*		19	30
	G30/G31 30/30 mbar*			
	G31 37 mbar*			

*Pressione gas alla rampa / Inlet gas pressure



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

AT, CH				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza nominale - Nominal thermal power - Puissance thermique nominale - Nominal - Wärmeleistung - Potencia tèrmica nominal	(kW)		12,5 (12 kW G30/G31)	21 (22 kW G30/G31)
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas	G20	m³/h	1,322	2,220
	G30/31	kg/h	0,946/0,932	1,733/1,708
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G20 20 mbar*		245/350L	200/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G20 20 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G30/31 50 mbar*		145/250K	120/250M5
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			80	110
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G30/31 50 mbar*		19	30

BE, FR				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza nominale - Nominal thermal power - Puissance thermique nominale - Nominal - Wärmeleistung - Potencia tèrmica nominal	(kW)		12,5	21
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas	G20	m³/h	1,322	2,220
	G25	m³/h	1,538	2,583
	G30/31	kg/h	0,985/0,971	1,655/1,630
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G20/G25 20/25 mbar*		245/350L	200/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G20/G25 20/25 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G30/31 28-30/37 mbar*		175K	140K
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			95	130
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G30/31 28-30/37 mbar*		19	30

*Pressione gas alla rampa / Inlet gas pressure



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

DE				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza nominale - Nominal thermal power - Puissance thermique nominale - Nominal - Wärmeleistung - Potencia tèrmica nominal	(kW)		12,5 (12 kW G30/31)	21 (22 kW G30/31) (20 kW G25)
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas	G20	m³/h	1,322	2,220
	G25	m³/h	1,538	2,583
	G30/31	kg/h	0,946/0,932	1,733/1,708
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G20 20 mbar*		245/350L	200/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G20 20 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G25 20 mbar*		280/410L	215/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G25 20 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G30/31 50 mbar*		145/250K	120/250M5
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			80	110
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G30/31 50 mbar*		19	30

*Pressione gas alla rampa / Inlet gas pressure



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

NL				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza nominale - Nominal thermal power - Puissance thermique nominale - Nominal - Wärmeleistung - Potencia tèrmica nominal	(kW)		12,5	21
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas	G20	m³/h	1,322	2,220
	G25	m³/h	1,538	2,583
	G25.3	m³/h	1,503	2,525
	G30/31	kg/h	0,985/0,971	1,630 (G31)
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal - Főégő	G20 20 mbar*		245/350L	200/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Zündbrenner - Quemador piloto - Órláng (max 0,25 kW)	G20 20 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G25 25 mbar*		255/350L	210/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G25 25 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal - Főégő	G25.3 25 mbar*		255/350L	210/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Zündbrenner - Quemador piloto - Órláng (max 0,25 kW)	G25.3 25 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G30/31 30/30 mbar*		175K	140K
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			95	130
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G30/31 30/30 mbar*		19	30

*Pressione gas alla rampa / Inlet gas pressure



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

PT				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza nominale - Nominal thermal power - Puissance thermique nominale - Nominal - Wärmeleistung - Potencia tèrmica nominal	(kW)		12,5 (12 kW G30/31)	21 (22 kW G30/31)
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas	G20	m³/h	1,322	2,220
	G30/31	kg/h	0,946/0,932	1,733/1,708
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G20 20 mbar*		245/350L	200/350L
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G20 20 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G30/31 50/67 mbar*		145/250K	120/250M5
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			80	110
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G30/31 50/67 mbar*		19	30

MT, CY, IS				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza nominale - Nominal thermal power - Puissance thermique nominale - Nominal - Wärmeleistung - Potencia tèrmica nominal	(kW)		12,5	21
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas				
	G30/31	kg/h	0,985/0,971	1,655/1,630
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G30/31 30 mbar*		175K	140K
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			95	130
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G30/31 30 mbar*		19	30

*Pressione gas alla rampa / Inlet gas pressure



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

HU				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza nominale - Nominal thermal power - Puissance thermique nominale - Nominal - Wärmeleistung - Potencia tèrmica nominal	(kW)		12,5	21 (20kW G20)
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas	G20	m³/h	1,532	2,115
	G25.1	m³/h	1,535	2,578
	G30/31	kg/h	0,985/0,971	1,655/1,630
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G20 25 mbar*		230/350L6	185/350L
R.D.A.-X mm	G20 25 mbar*		-	-
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G25.1 25 mbar*		275/350L	220/350L
R.D.A.-X mm	G25.1 25 mbar*		-	-
BY PASS-Ø-1/100mm	G20 25 mbar* G25.1 25 mbar*		150	180
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G20 25 mbar* G25.1 25 mbar*		27	50
Bruciatore principale - Main burner - Brûleur principal - Hauptbrenner - Quemador principal	G30/31 30 mbar*		175K	140K
R.D.A.-X mm			-	-
BY PASS-Ø-1/100mm			95	130
Bruciatore pilota - Pilot burner - Brûleur pilote - Leitflamme - Quemador piloto (max 0,25 kW)	G30/31 30 mbar*		19	30

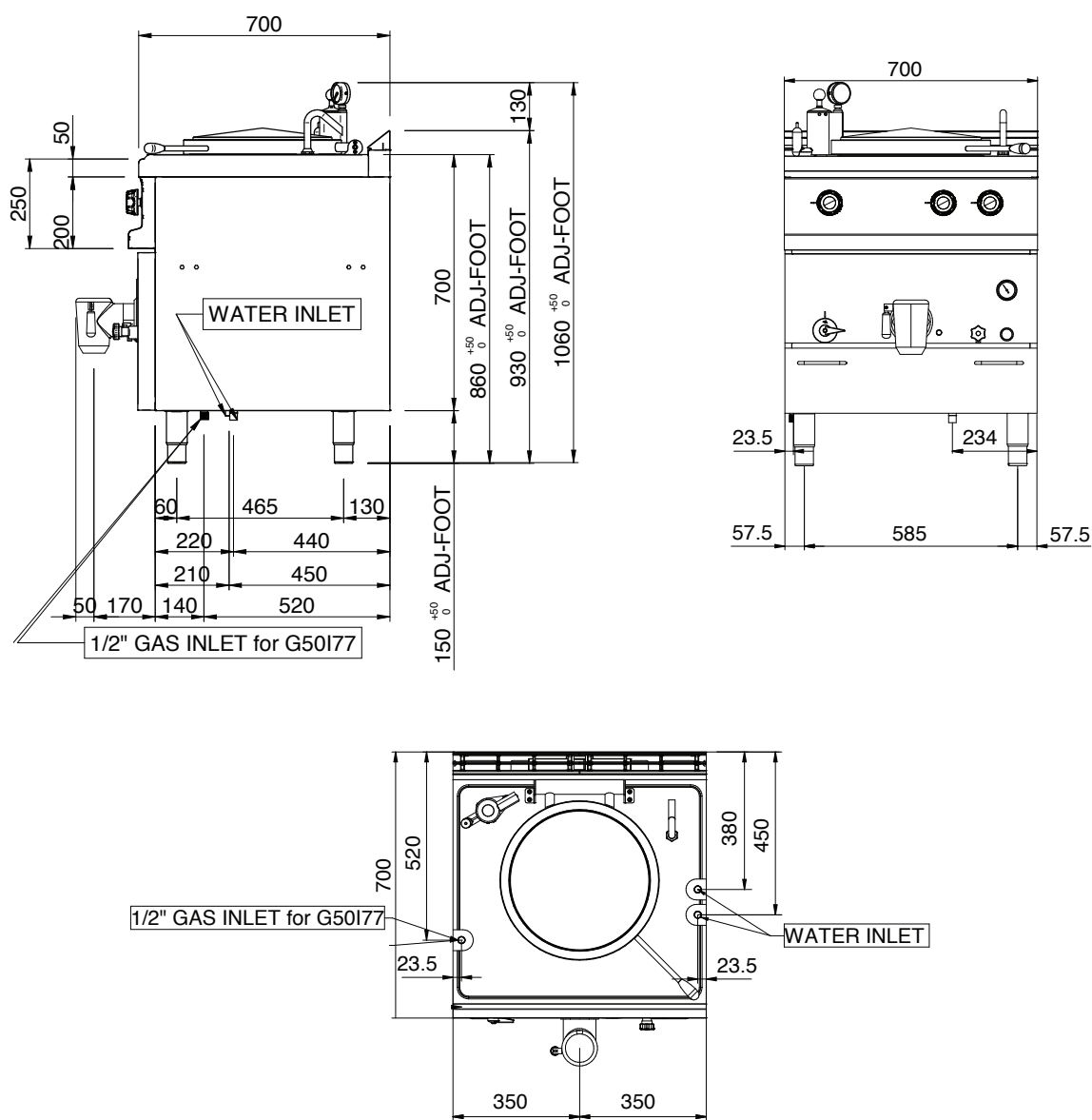
*Pressione gas alla rampa / Inlet gas pressure

ALL COUNTRIES				
Modelli – Models – Modèles – Modelle – Modelo			G50I77	G100.../150...
Tipo – Type – Bauart			A1	A1
Potenza ridotta -	(kW)		3,85	5,7
Consumo gas - Gasconsumption - Consommation de gaz - Gasverbrauch - Consumo de gas	G20	m³/h	0,407	0,603
	G30/31	kg/h	0,303/0,299	0,449/0,443



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

G50I77





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

G1008/98 - G1508/98 / G100I8/98 - G150I8/98

