



**INSTALLATION, USE  
AND MAINTENANCE**

**Pasta cooker, gas Serie 700**

**2853051  
2853101**

Cooking equipment Series 700

Data Plate & Table of gas types p. 2

General Warnings

Normes et Directives

Installation and Gas &  
Electric connection

General Warnings for the  
Maintenance

Gas Ranges

Gas Griddle Plates

Gas Fryers

Gas Pasta Cookers

Lavastone Grills

Gas Bratt Pans

# TYPENSCHILD \ PLAQUES DES CARACTERISTIQUES TECHNIQUES \ DATA PLATE

 <b>Bartscher GmbH</b> Franz-Kleine-Straße 28 33154 Salzkotten Production year: 03/2018 Designed: 2014  PIN 0085 TYPE SERIE <b>70</b> MOD. <b>K7GFB10VVL</b> ART. <b>2855081</b> SN. <b>18037GFB10VVL005</b> <table border="1" style="width: 100%;"> <tr> <td><math>\Sigma Q_n</math></td> <td>kW</td> <td>14</td> </tr> <tr> <td></td> <td>m<sup>3</sup>/h</td> <td>1,48</td> </tr> <tr> <td></td> <td>kg/h</td> <td>1,1</td> </tr> </table> <table border="1" style="width: 100%;"> <tr> <td>kW 0</td> <td>V 0</td> </tr> <tr> <td>Hz 0</td> <td>~</td> </tr> </table>	$\Sigma Q_n$	kW	14		m <sup>3</sup> /h	1,48		kg/h	1,1	kW 0	V 0	Hz 0	~	CAT/RAT	GAS/GAZ	G30	G31	G30	G25	G25.1	G110	G120	Made in E.U.
	$\Sigma Q_n$	kW	14																				
		m <sup>3</sup> /h	1,48																				
		kg/h	1,1																				
	kW 0	V 0																					
	Hz 0	~																					
	G <sub>2H</sub>	p mbar	-	-	20	-	-	-	-	-	LV												
	G <sub>3P</sub>	p mbar	-	37	-	-	-	-	-	-	IS												
	G <sub>3B/P</sub>	p mbar	28-30	28-30	-	-	-	-	-	-	CY MT HU												
	G <sub>2H+3P</sub>	p mbar	-	37	20	25	-	-	-	-	LU												
	G <sub>2H+3+</sub>	p mbar	28-30	37	20	25	-	-	-	-	FR BE												
	G <sub>2H+</sub>	p mbar	30	37	20	-	-	-	-	-	IT PT GR GB												
	G <sub>2H+</sub>	p mbar	28	37	20	-	-	-	-	-	ES IE CH												
	G <sub>2H+3P+3+</sub>	p mbar	-	37	20	-	-	-	-	-	PL												
	G <sub>2ELL+3P+3+</sub>	p mbar	50	50	20	20	-	-	-	-	DE												
G <sub>2H+3P+3+</sub>	p mbar	40	30	20	-	-	-	-	-	AT CH CZ SK													
G <sub>2H+3P+3+</sub>	p mbar	28-30	28-30	20	-	-	-	-	-	FI LT BG SE													
G <sub>2H+3P+3+</sub>	p mbar	28-30	28-30	20	-	-	-	-	-	NO SK RO DK													
G <sub>2H+3P+3+</sub>	p mbar	28-30	28-30	20	-	-	-	-	-	EE SI HR TR													
G <sub>2H+3P+3+</sub>	p mbar	28-30	28-30	25	-	25	-	-	-	HU													
G <sub>2H+3P+3+</sub>	p mbar	30	30	-	25	-	-	-	-	NL													
G <sub>110a+3P+3+</sub>	p mbar	28-30	28-30	20	-	-	8	8	-	GR													
G <sub>120a+3P+3+</sub>	p mbar	28-30	28-30	20	-	-	-	8	-	DK													
/Prodipenko a gas-Převrác pozo gas-Ventilováno log. fit. Gas-Prodipenko a gas-Ventilováno gas-Öc. fit. csc with gas-Propendo gas gas-Mixed for 2 boilers and gas-Arvek. fit. and suitable and gas-Teknikátia kályvákélik. kanyóCs-Fűtőkész. (1) frug of gas-Üporkészítéskész és kályvákélik arvek-Zelazec na plyn - Tovarů gasů plynů - A berendezés gáz/bromidálás előkezelés - Regulátorok csak az gáz - Provozování na gas - Prowatyn dozwol. - Molekuly na plyn - Prowatyn na plyn - KH2001										030 20mbar													

## TABELLE GASARTEN / TABLE TYPES DES GAZ / TABLE TYPES OF GAS

Type gaz/ Type of gas/ Gasart	P <sub>n</sub> [mbar]	P <sub>min</sub> [mbar]	P <sub>MAX</sub> [mbar]
G20 (Methane) (2H)	20	17	25
G25 (Methane) (2ELL)	20	17	25
G25 (Methane) (2E+)	25	20	30
G25.1 (Methane) (2HS)	25	20	30
G25.3 (Methane) (2EK)	25	20	30
G30 (Butane) (3B/P)	28-30	25	35
G30 (Butane) (3+)	28-30	20	35
G30 (Butane) (3B/P)	50	42,5	57,5
G31 (Propane) (3B/P)	28-30	25	35
G31 (Propane) (3P, 3+)	37	25	45
G31 (Propane) (3B/P)	50	42,5	57,5
G110 (Town gas) (1a)	8	6	15
G120 (Town gas) (1ab)	8	6	15

## GENERAL WARNINGS

- *Read the instructions carefully before installation, use and maintenance of the appliance.*
- *The installation has to be performed by qualified personnel following the manufacturer's instructions given in the provided manual.*
- *The appliance is only suitable for the preparation and cooking of food in industrial kitchens such as those used in restaurants, hospitals, company canteens, cooking centres, butcher's shops and food production firms. Any other type of use is not in accordance with the intended purpose and could place people and/or objects at risk.*
- *The appliance should only be used by trained personnel and for the use for which it was designed.*
- *Due to the nature of the appliance, the temperatures required for cooking may cause various areas of the panelling, as well as kitchenware, to become hot. This is not a construction defect, but a physical phenomenon caused by the chemical and physical properties of the materials used for the construction of the appliances.*
- *In the event of breakdown or malfunction, switch off the appliance and seek help exclusively from an authorized technical assistance centre.*
- *Only use genuine spare parts; otherwise no liability is assumed by the manufacturer.*
- *The appliance must not be washed with high pressure water sprays and the vents or inlets/outlets for air, fumes and heat must not be obstructed.*
- *Children should be supervised to ensure they do not play with the appliance.*
- *Before connecting the device make sure that the plate specifications correspond to the electrical and gas supply.*
- *When cooking, avoid placing pots and pans and/or crockery on the hotplate that could partially cover the stainless steel part of the hob, otherwise the worktop may overheat.*
- ***When not in use, make sure the appliance is disconnected from the electric mains.***

**ATTENTION! The manufacturer declines any liability for damage caused by wrong installation, tampering, making unauthorized changes, improper use, poor maintenance, installation of non-original spare parts, not observing local norms, incorrect use or not observing the instructions in this booklet.**

### For the installer

- *The functioning of the appliance has to be explained and shown to the user. After ensuring that everything is clear, the instruction booklet has to be handed over to the user.*
- *The user has to be informed that any building modification or restructuring that may in any way modify the air supply necessary for combustion makes it necessary to carry out another check of the functionality of the appliance. In particular, every variation (additional power) in the appliances in the room may modify the balance of the gas supply in the room. That means that appliances may be fed with gas at lower gas pressure and rate than those provided for and they may give worse performance.*

## TECHNICAL FEATURES

The following instructions for set up and functioning refer to gas and mixed appliances belonging to categories I<sub>2H</sub>, I<sub>3P</sub>, I<sub>3B/P</sub>, II<sub>HS3B/P</sub>, II<sub>E3PB/P</sub>, II<sub>2H3+</sub>, II<sub>2H3B/P</sub>, with a power pressure for Butane/Propane (G30-G31) of 30/50 mbar and Methane (G20) of 20 mbar. The DATA PLATE showing all the appliance information is to be found inside the right or left side of the control panel, depending on the model.

The appliances have been checked in accordance with the European directives down below:

2014/35/UE - Low Tension (LVD)  
2014/30/UE - Electromagnetic Compatibility (EMC)  
2016/426/UE - Gas Appliances (GAR)  
2006/42/EC - Machinery directive  
2011/65/CE - Rohs  
1935/2004/UE - Food Contact Material (MOCA)

SVGW Directive G1 Directive for the installation of methane gas appliances in buildings

SVGW Norms L1 Norms for the installation of liquid gas appliances for home, professional use and industry

SVGW Regulation of cantonal applications in Switzerland (for ex. fireproof regulations)

And the particular reference norms.

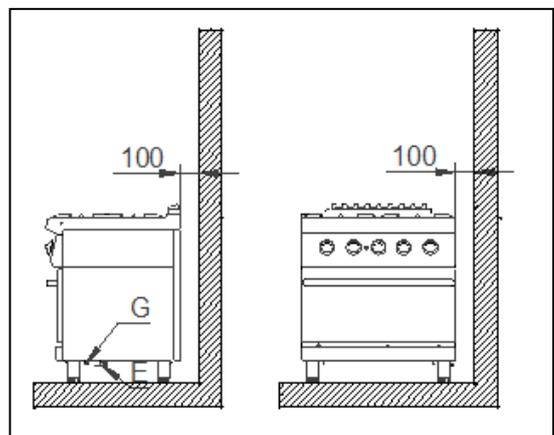
### Declaration of compliance

The manufacturer declares that the appliances of their production meet the above mentioned EEC directives and requires that installation be done observing the norms in force, particularly regarding the system for letting out fumes and air exchange.

## PROVISIONS FOR INSTALLATION

### Place

It is advisable to install the appliance in a well-ventilated room or under an extractor hood. The appliance may be installed as a single unit or together with others. In both cases, if it is installed near a wall of inflammable material, a minimum distance according the series (see figure) from the side and back walls must be observed. In the event that it is not possible to observe this distance, protective measures must be taken (e.g. use of sheets of refractory material) which ensure that the temperature of the walls is within the established safety limits.



### Norms and provisions

Installation operations, gas or voltage conversions to other than the original, starting up the installation or appliance, ventilation, letting out fumes, and maintenance have to be done by qualified personnel following the manufacturer's instructions, observing the norms in force and in compliance with the following provisions (**GB**):

- Gas Safety (Installation and Use) Regulations, 1984
- Health and Safety at Work Act, 1974
- Codes of Practice, BS6173, 1982
- The Building Regulations, 1985
- The Building Standards Regulations, 1981

For others countries follow the relevant local rules for:

- Gas board rules
- Building regulations and local fire prevention provisions
- Safety norms in force
- Provisions of the Gas supplying company
- The Electrical Norms in force
- The Fire Brigade rules.

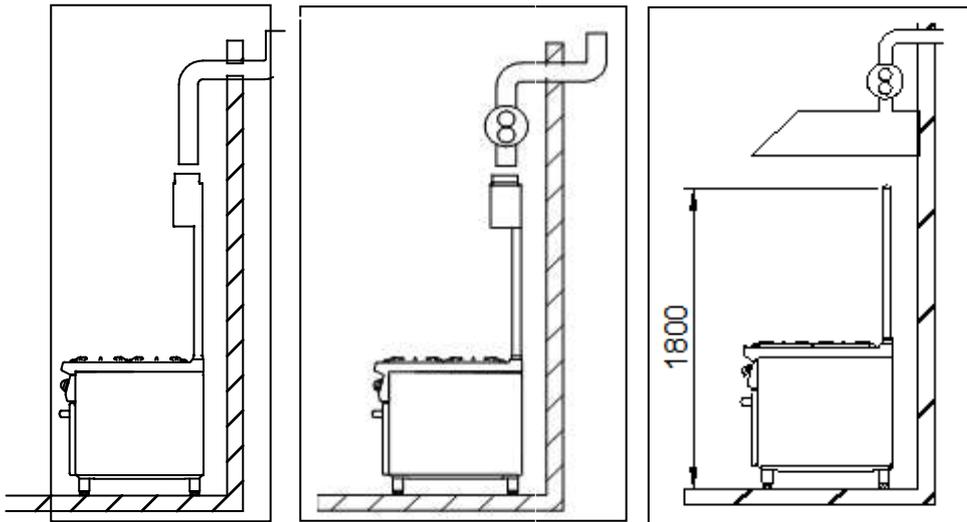
## Fumes evacuation

### Type "A1" gas appliances

The deep fat fryers are type A1 gas appliances and it is not necessary to connect directly to an evacuation pipe for combustion products. The products of combustion, however, have to be directed into suitable hoods or similar devices, connected to a reliably efficient chimney, otherwise directly outside. if these devices are not available, it is possible to use an extractor fan connected directly to external environment with a capacity no lower than what is stated in table 1.

This value has to be increased with the air exchange necessary for the operators' well-being in accordance with the norms in force (approximately a total of 35 m<sup>3</sup>/h per KW of gas output installed).

### Type "B21" gas appliance



These appliances must be connected in one of the following ways:

- *Natural evacuation*  
Connection to reliable chimney with natural pull, interposing a pull device, letting out the products of combustion directly outside.
- *Direct forced evacuation*  
Connection to a chimney with forced pull, putting in a pull device, letting out the products of combustion directly into the external environment. The energy supply to the appliance must be controlled by the system of forced evacuation and must be interrupted if its capacity falls below the values prescribed by the norms in force. Restarting the gas supply must only be done manually.
- *Forced evacuation under hood*  
In this case, the fume evacuation device of the appliance must be brought to a height of 1.8 m from floor level, and the outlet section of the evacuation pipes for products of combustion must be placed inside the base perimeter of the hood. The energy supply to the appliance must be controlled by the system of forced evacuation and must be interrupted if its capacity falls below

the values prescribed by the norms in force. Restarting the gas supply must only be done manually.

## INSTALLATION

### Preliminary operations

Remove the appliance from the packaging, ensure that it is intact and, if in doubt, do not use it but contact professionally qualified personnel. The packaging materials are compliant with environmental safety regulations. They can be stored without risk, or else should be disposed of in accordance with current national regulations, particularly those regarding the nylon bag and the polystyrene.

After verifying that the appliance is in good conditions, the protective film may be removed. Clean the external parts of the appliance carefully with warm water and detergent, using a cloth to remove all remaining residues and then dry it with a soft cloth. If there are still traces of glue, these can be removed using a suitable solvent (e.g. acetone). Under no circumstances should abrasive substances be used. After the installation the appliance should be levelled by lowering or raising the adjustable legs.

### Gas Connection

Before connecting the appliance, it is necessary to check that the type of gas available corresponds to the type of gas the appliance has been set for. In the event that they do not correspond, it is necessary to proceed as described in the paragraph *Functioning with a gas type different from the type provided for*. The connection to the screwed pipe joints, which have a diameter of ½ inch and are situated on the appliance bottom, may be fixed or mobile by using a fitting quick-coupler. If flexible piping is used, it has to be made of stainless steel and meet the regulations in force. All the seals on the junction threads have to be made of materials certified for gas use. In order to ensure a quick interruption of the gas supply, before setting up each single appliance, it is necessary to install a cut-off cock; the device has to be placed in an easily accessible position so that it is possible to turn off the gas supply when the appliance is not used. After completing the connection, the tightness of the cut-off cock has to be checked by using a leak-finder spray.

### Electric connection

Before connecting the appliance, it is necessary to check that the voltage of the available power supply corresponds to the voltage the appliance has been set for. If they do not correspond, it is necessary to modify the connection as shown in the electric diagram, if voltage change is provided for. The junction box is situated behind the control panel of the top and it is made accessible by unscrewing the screws that fix the panel, removing it and taking out the junction box.

Furthermore, it is necessary to check that the earthing wire is efficient, that the earth conductor on the connecting side is longer than the other conductors, that the connecting cable has a wire bunch adequate for the power absorbed by the appliance, and that the connecting cable is at least type H07 RN-F. It is necessary to run the cable first through the cable gland. ***If the supply cord is damaged, it must be replaced by the manufacturer service agent or similarly qualified persons in order to avoid a hazard. As in international provisions, before setting up the appliance a unipolar device has to be installed with a contact opening of at least 3 mm that must not interrupt the YELLOW-GREEN earthing wire.*** This device has to be installed near the appliance, has to be approved, and has to have adequate capacity for the absorption of the appliance (see table TECHNICAL FEATURES).

The appliance has to be connected to the EQUIPOTENTIAL system. The connector is situated near the end of the electric cable and it is identified by a label with the symbol shown.



While using a safety thermostat for breakdown tensions, it is necessary to note what follows:

- According to the normative law in force, the leakage of electric power for this kind of appliances can have a value of 1 mA without limitations for the maximum for each kW of installed power. Besides, it must be noted that all the switches for breakdown to be found on the market have a tolerance for the operating tension of less than the 50%; therefore, a suitable switch has to be chosen.
- Connect only a single appliance to each switch.
- In some cases, after long periods of inactivity or in case of a new installation, it is possible that the appliance switches off during the setting-up. The main reason is usually the moist produced during the isolation. The problem can be easily solved through a short pre-heating bypassing the safety thermostat.

## FOR PASTA COOKERS ONLY

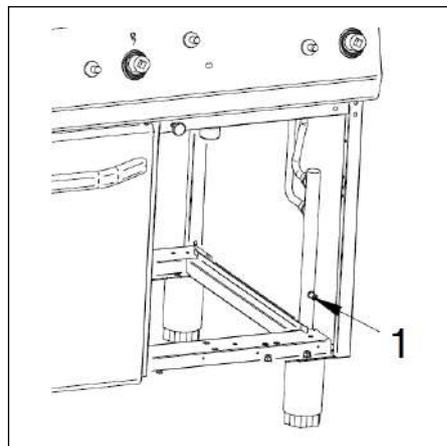
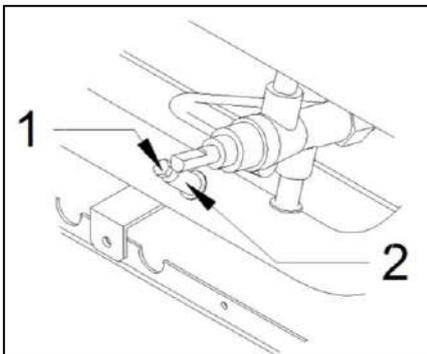
### Connection to the water mains

Connect the water inlet pipe to the mains, following the rules stipulated by the norms in force.

### Drainage

The drainage pipe must not be connected directly to a common drain, but positioned over a reservoir, at a distance which does not allow it come into contact with the sides of the reservoir or with the water inside it, in order to avoid contaminating the food in the tank.

### Checking gas tightness and pressure



Before checking the gas pressure, it is necessary to check the tightness of the gas installation up to the nozzle with a leak-finder spray to ensure that no damage has been done to the appliance during transportation. Then, it is possible to check the inlet pressure, which can be carried out by means of a pressure gauge, either a “U” gauge or an electronic gauge with a minimum definition of 0,1 mbar. In order to measure the gas pressure, remove the screw (1) from the pressure outlet (2) and connect it to the pressure gauge pipe. Open the appliance gas supply valve, check the pressure output, and close the valve. Remove the pressure gauge pipe and screw the screws correctly into the pressure outlet. The pressure valve has to be within the minimum and maximum values shown in the table TYPES OF GAS.

If the pressure measured is not within the limits shown in the table, find out the cause. After solving the problem, check the pressure again.

### Checking the appliance power

Normally it is sufficient to check that the nozzles installed are the right ones and that the burners function properly. If desired, it is possible to check the power absorbed by using the “Volumetric Method”, measuring the volume of gas output supplied to the appliance in time units with the aid of a chronometer and a counter. The right comparison volume [E], measured in litres per hour (l/h) or in litres per minute (l/min), can be obtained using the formula shown below dividing the nominal and minimum outputs (power) shown in the table of burner features by the lowest heat capacity of the gas type pre-arranged for the appliance. This value can be found in the norm tables or can be provided by the local gas supply company.

$$E = \frac{\text{Power}}{\text{Heat capacity}}$$

The reading has to be done when the appliance is already in function.

### Checking pilot burner

Check the flame of the pilot burner, which must be neither too short nor too high but must lap the thermocouple and have a sharp form; otherwise, it is necessary to check the size of the nozzle depending on the pilot version, as specified in the following paragraphs.

### Checking regulation of primary air

All the main burners are provided with primary air regulation. It is necessary to carry out the check observing the values shown in the air regulation column of the burner features tables. In order to regulate the primary air, proceed as specified in the following paragraphs.

**ATTENTION! All the parts protected and sealed by manufacturer can not be regulated by the installer if not specifically indicated.**

## MAINTENANCE

**ATTENTION! Before doing any kind of maintenance or repairs, make sure that the appliance is disconnected from the electric mains and that the gas cut-off valve is closed.**

The following maintenance operations have to be carried out at least once a year by specialized personnel. It is advisable to have a maintenance contract.

- Check for correct functioning of all control and safety devices;
- Check for correct ignition of burners and proper functioning at minimum;
- Check the tightness of the gas pipes;
- Check the condition of the power cable;
- Clean the evacuation pipes of type "B" appliances, following the prescriptions in force in the country of installation;
- The gas tap should be lubricated, but this operation is quite difficult and its results are not very reliable. Therefore, it is advisable to substitute the gas tap.

## GAS PASTA COOKERS SERIES 700

Technical features

Burners Features

Dimensions

Description of appliances

Regulation using a different type of gas

Substituting components

Operating anomalies

Instructions for Use

Device care and cleaning

**CARACTERISTIQUES TECHNIQUES**  
**TECHNICAL FEATURES**  
**TECHNISCHE DATEN**

Modele Model Modell	/ Dimensions/ Masse/ [mm]	Gas Gaz (B) [KW]	Type Typ (A)	GPL/LPG (G30) (D) [Kg/h]	Methane/ Erdgas (G20) (C) [m3/h]	Air/ Luft/ [m3/h]	Racc. gaz/ Gas fitting/ Gasanschluss/ s	Capacité cuve/Tank capacity/Beckeninhal t [l]	Pression eau Water pressure Wasserdruck MAX [kPa]	Racc. eau/ Water fitting/ Wasseranschluss/
2853051	400x700x900	8,7	A1	0,6860	0,9206	17,4	UNI-ISO 7/1 R ½	26	300	UNI-ISO 7/1 R ½
2853101	800x700x900	17,4	A1	1,3721	1,841	34,8	UNI-ISO 7/1 R ½	26	300	UNI-ISO 7/1 R ½

**CARACTÉRISTIQUES BRÛLEURS**  
**BURNER FEATURES**  
**BRENNEREINGESCHAFTEN**

(Tabella/Tableau/Table/Tafel/Tabla 46) (LV, PL - CAT. I<sub>2H</sub>, I<sub>2E</sub>)

Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Gicleur/ Injector/Düse/ [1/100 mm]	Ø By-pass [1/100 mm]	Veilleuse/P ilot/Zündfl amme/ [N°]	Air/Luft "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Natural Methane gas (G20)	8.70	1.90	220	105	51	0
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methane gas (G20)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0

(Tabella/Tableau/Table/Tafel/Tabla 47) (IS - CAT. I<sub>3P</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Injector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veilleu se/Pilot/Zündf lamme/ Piloto [N°]	Aria/Air/Luft /Aire "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Liquid Gas PLG (G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Liquid Gas PLG (G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 48) (CY, MT, HU, NL - CAT. I<sub>3B/P</sub> 29mbar)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veilleuse/Pilot/Zündflamme/ Piloto [N°]	Aria/Air/Luft /Aire "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Liquid Gas PLG (G30-G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Liquid Gas PLG (G30-G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 49) (HU- CAT. I<sub>3B/P</sub> 50mbar)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veilleuse/Pilot/Zündflamme/ Piloto [N°]	Aria/Air/Luft /Aire "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Liquid Gas PLG (G30-G31)	8.70	3.40	130	85	30	3,0
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Liquid Gas PLG (G30-G31)	8.70 x 2	3.40 x 2	130 x 2	85 x 2	30 x 2	3,0

(Tabella/Tableau/Table/Tafel/Tabla 50) I, PT, CH, GR, GB, IE, ES – CAT. II<sub>2H3+</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veilleuse/Pilot/Zündflamme/ Piloto [N°]	Aria/Air/Luft /Aire "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR F ø 61</b>						
Natural Methan gas (G20)	8.70	1.90	220	105	51	0
Liquid gas LPG (G30-G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methan gas (G20)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0
Liquid gas LPG (G30-G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 51) (CZ, FI, LT, BG, SE, DK, NO, SK, RO, EE, SI, HR, TR - CAT. II<sub>2H3B/P 29mbar</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veilleuse/Pilot/Zündflamme/ Pilote [N°]	Aria/Air/Luft/Aire "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR F ø 61</b>						
Natural Methan gas (G20)	8.70	1.90	220	105	51	0
Liquid gas LPG (G30-G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methan gas (G20)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0
Liquid gas LPG (G30-G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 52) (CH, SK, DE, AT – CAT. II<sub>2H3B/P 50 mbar</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veilleuse/Pilot/Zündflamme/ Pilote [N°]	Aria/Air/Luft/Aire "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Natural Methan gas (G20)	8.70	1.90	220	105	51	0
Liquid gas LPG (G30-G31)	8.70	3.40	130	85	30	3,0
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methan gas (G20)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0
Liquid gas LPG (G30-G31)	8.70 x 2	3.40 x 2	130 x 2	85 x 2	30 x 2	3,0

(Tabella/Tableau/Table/Tafel/Tabla 53) (LU – CAT. II<sub>2E3P</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veilleuse/Pilot/Zündflamme/ Pilote 4N°	Aria/Air/Luft/Aire "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Natural Methan gas (G20-G25)	8.70	1.90	220	105	51	0
Liquid gas LPG (G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methan gas (G20-G25)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0
Liquid gas LPG (G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 54) (FR, BE– CAT. II<sub>2E+3+</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø gello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]]	Pilota/Veilleuse /Pilot/Zündflam me/Piloto [N°]	Aria/Air/Luf t/Aire “x” [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Natural Methan gas (G20-G25)	8.70	1.90	220	105	51	0
Liquid gas LPG (G30-G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methan gas (G20-G25)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0
Liquid gas LPG (G30-G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 55) (PL - CAT. II<sub>2E3PB/P</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]]	Pilota/Veilleu se/Pilot/Zünd flamme/ Piloto [N°]	Aria/Air/Luf t/Aire “x” [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Natural Methan gas (G20)	8.70	1.90	220	105	51	0
Liquid gas LPG (G31)	8.70	3.10	140	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methan gas (G20)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0
Liquid gas LPG (G31)	8.70 x 2	3.10 x 2	140 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 56) (DE – CAT. II<sub>2ELL3B/P</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veilleu se/Pilot/Zünd flamme/ Piloto [N°]	Aria/Air/Lu ft/Aire “x” [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Natural Methan gas (G20)	8.70	1.90	220	105	51	0
Natural Methan gas (G25)	8.70	1.70	245	105	51	0
Liquid gas LPG (G30-G31)	8.70	3.40	130	85	30	3,0
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methan gas (G20)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0
Natural Methan gas (G25)	8.70 x 2	1.70 x 2	245 x 2	105 x 2	51 x 2	0.0
Liquid gas LPG (G30-G31)	8.70 x 2	3.40 x 2	130 x 2	85 x 2	30 x 2	3,0

(Tabella/Tableau/Table/Tafel/Tabla 57) (NL - CAT. II<sub>2EK3B/P</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veil- se/Pilot/Zünd flamme/ Piloto[N°]	Aria/Air/ Luft/Aire “x” [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Natural Methane Gas (G25.3)	8.70	2.10	225	105	51	0.0
Liquid Gas LPG (G30-G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methane Gas (G25.3)	8.70 x 2	2.10 x 2	225 x 2	105 x 2	51 x 2	0.0
Liquid Gas LPG (G30-G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 58) (HU - CAT. II<sub>2HS3B/P</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veill- euse/Pilot/Z ündflamme/ Piloto[N°]	Aria/Air/Luf- t/Aire “x” [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Natural Methane Gas (G25.1)	8.70	1.80	240	105	51	0.0
Liquid Gas LPG (G30-G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Natural Methane Gas (G25.1)	8.70 x 2	1.80 x 2	240 x 2	105 x 2	51 x 2	0.0
Liquid Gas LPG (G30-G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

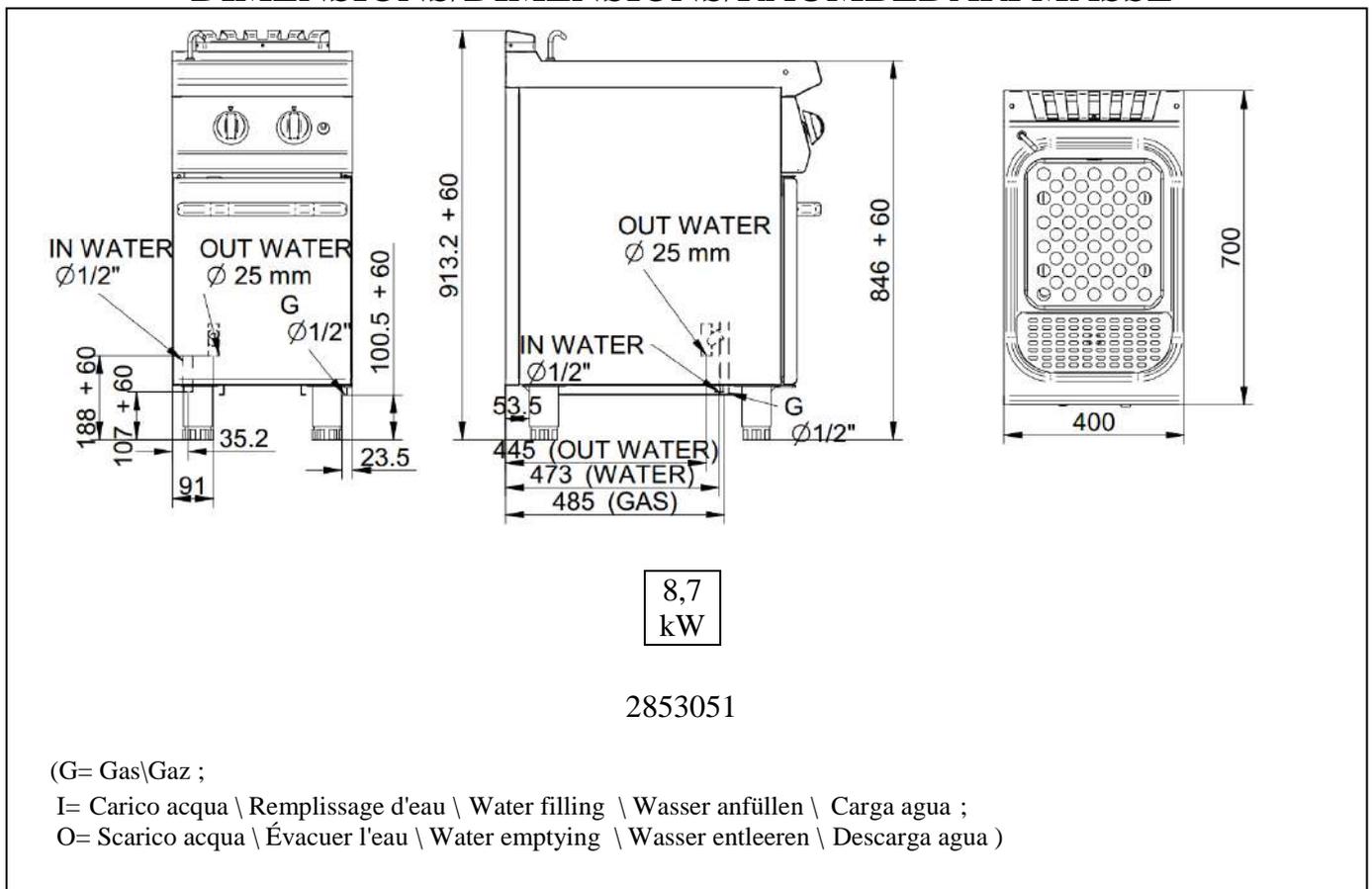
(Tabella/Tableau/Table/Tafel/Tabla 59) (DK - CAT. III<sub>1a2H3B/P</sub>)

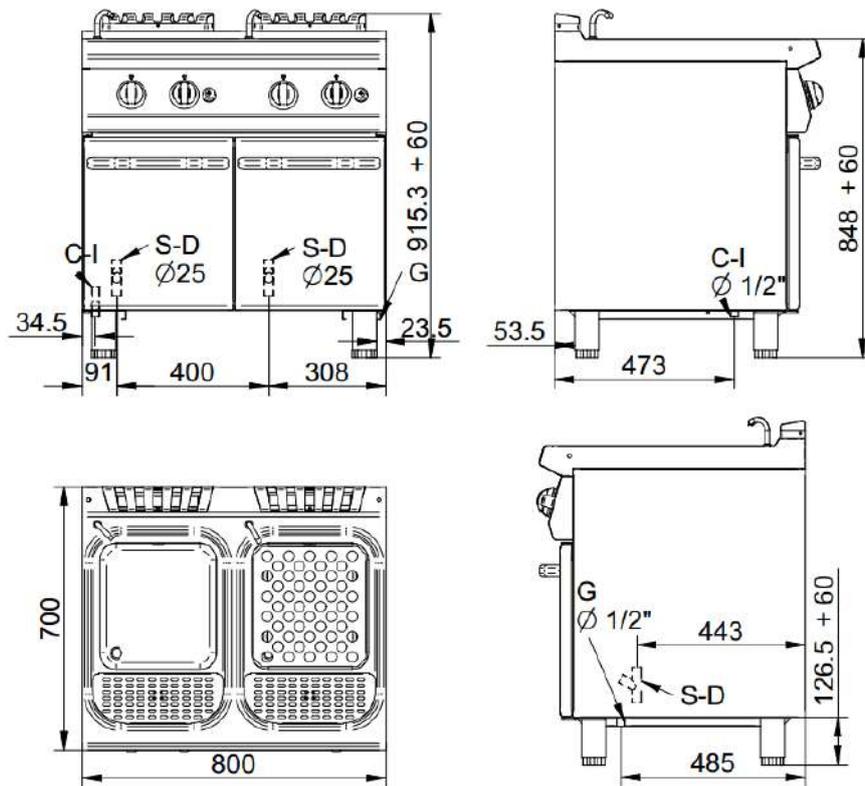
Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Inyector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veil- se/Pilot/Zünd flamme/ Piloto [N°]	Aria/Air/Luf- t/Aire “x” [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Town Gas (G110)	7,80	2.30	480	 105 + 2 round	75	0
Natural Methane Gas (G20)	8.70	1.90	220	105	51	0
Liquid Gas LPG (G30-G31)	8.70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Town Gas (G110)	7,80 x 2	2.30 x 2	480 x 2	 105 + 2 round	75 x 2	0
Natural Methane Gas (G20)	8.70 x 2	1.90 x 2	220 x 2	105 x 2	51 x 2	0
Liquid Gas LPG (G30-G31)	8.70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

(Tabella/Tableau/Table/Tafel/Tabla 60) (SE - CAT. III<sub>lab2H3B/P</sub>)

Tipo gas/ Type gaz/ Gas Type/ Gasart	MAX [kW]	MIN [kW]	Ø Ugello/Gicleur/ Injector/Düse/ Injector [1/100 mm]	Ø By-pass [1/100 mm]	Pilota/Veil- leu- se/Pilot/Zünd- flamme/ Piloto [N°]	Aria/Air/Luf- t/Aire "x" [mm]
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR ½ module</b>						
Town Gas (G110)	7,80	2.30	480	105 + 2 round	75	0
Town Gas (G120)						
Natural Methane Gas (G20)	8,70	2.60	480	105 + 2 round	75	0
Liquid Gas LPG (G30-G31)	8,70	1.90	220	105	51	0
Liquid Gas LPG (G30-G31)	8,70	2.70	150	85	30	4,5
<b>BRUCIATORE/BRÛLEUR/BURNER/BRENNER/QUEMADOR 1 module</b>						
Town Gas (G110)	7,80 x 2	2.30 x 2	480 x 2	105 + 2 round	75 x 2	0
Town Gas (G120)						
Natural Methane Gas (G20)	8,70 x 2	2.60 x 2	480 x 2	105 + 2 round	75 x 2	0
Liquid Gas LPG (G30-G31)	8,70 x 2	1.90 x 2	AL195 x 2	105 x 2	51 x 2	0
Liquid Gas LPG (G30-G31)	8,70 x 2	2.70 x 2	150 x 2	85 x 2	30 x 2	4,5

## DIMENSIONS/DIMENSIONS/RAUMBEDARFMASSE





8,7 kW	8,7 kW
-----------	-----------

2853101

(G= Gas\Gaz ;

C-I= Carico acqua \ Remplissage d'eau \ Water filling \ Wasser anfüllen \ Carga agua ;

S-D= Scarico acqua \ Évacuer l'eau \ Water emptying \ Wasser entleeren \ Descarga agua )

## DESCRIPTION OF APPLIANCES

### **Gas Appliances**

Sturdy structure in steel placed on four feet which make it possible to regulate the height.

The outer finishing is stainless steel. It has a safety gas cock, enabling regulation of the output from maximum to minimum, safety is ensured by a thermocouple which is kept active by the flame of the pilot burner.

The vat is made entirely in stainless steel, resistant to salted water and to starch. The chamber is heated by means of a stainless steel tubular burner, suitable for proper functioning at the high temperatures to which it is exposed.

It is equipped with a water loading system with a tap to continuously regulate the filling of the water in the tank.

The pasta cooker is equipped with a large section ball valve for draining the water at the end of the cycle. Furthermore, it is equipped with a system for connecting the drain according to the regulations in force.

### **REGULATIONS AND SUBSTITUTIONS FOR USING A GAS DIFFERENT FROM THE TYPE PROVIDED FOR**

#### **Functioning with a gas type different from the type provided for**

In order to change to another gas type, it is necessary to substitute the nozzles of the main burners and of the pilot burner, following the instructions in the following paragraphs. The nozzle type to be installed can be found in tables BURNER FEATURES. The nozzles of the main burner, marked with their diameter in hundredths, can be found in a transparent bag attached to the instruction booklet.

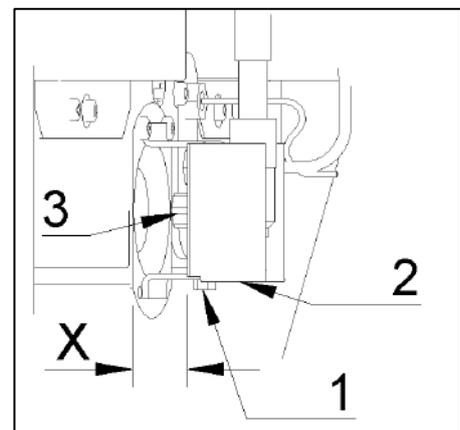
If not included in the equipment, nozzles must be requested directly to the manufacturer. In the event that the nozzles are replaced, the responsibility for the functioning of the appliance lies entirely with the person who carried out the operation.

When the conversion is completed, check that the pipe joints are tight and that the ignition and functioning of both the pilot and the main burner – both at minimum and maximum – are correct. It may be advisable to check the output power.

Then, modify the technical sheet and place the sheet (provided as standard kit equipment) referring to the new gas type in the **X** position.

#### Substituting the burner nozzle

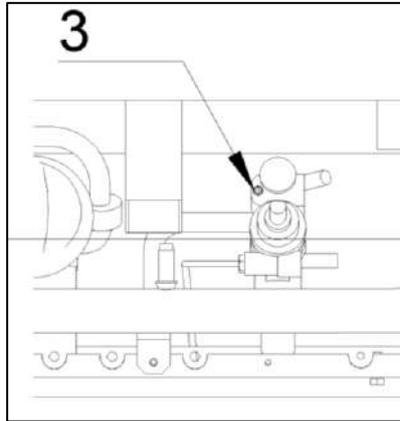
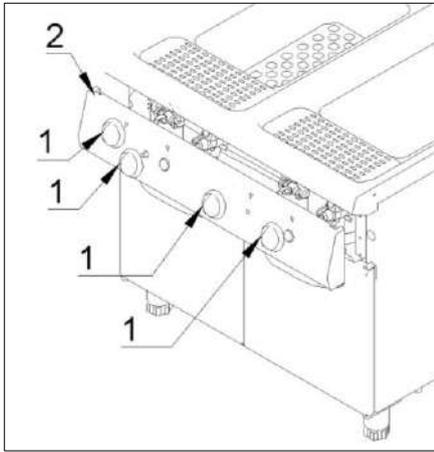
To substitute the burner nozzle, it is necessary to open the door of the compartment. After doing this, the screw which blocks the regulation of primary air must be loosened (1) and regulated until completely open (2); the nozzle must be unscrewed (3) with a spanner and substituted with an appropriate nozzle for the type of gas used, shown in tables BURNER FEATURES. This nozzle must be assembled, tightening well and it is then necessary to proceed by regulating the primary air, as indicated in the next paragraph. When all this is done, replace the parts previously removed and proceed to regulate the primary air, as indicated in the next paragraph.



### Regulating the primary air of the burner

After having substituted the burner nozzle, it is necessary to proceed by regulating the primary air: loosen the screw which fixes the regulating stirrup (1), bring value "x" to the correct measurement, referring to tables BURNER FEATURES tighten the screw (2) and check the accuracy of value "x".

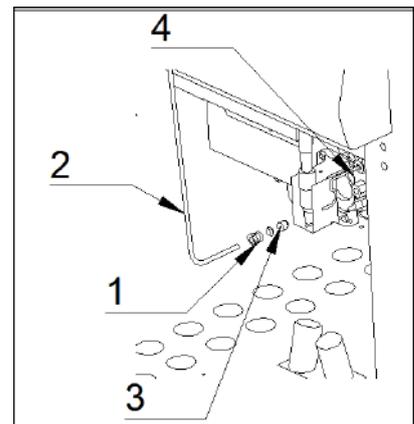
### Substituting the By-Pass



To substitute the by-pass, the knob (1) and the control panel (2) must be removed. When the work area has been cleared, unscrew the by-pass (3) with a screwdriver and substitute it with the suitable for the type of gas to be used. Reassemble the by-pass and tighten it well. Put back the control panel and the knobs.

### Substituting the pilot burner nozzle

To substitute the pilot burner nozzle, it is necessary to open the door of the compartment, unscrew the fitting (1) which fixes the gas supply pipe of the pilot (2) to the gas nozzle holder (4) and remove the nozzle (3). This must be substituted with an appropriate nozzle for the type of gas used. Assemble the new nozzle, replace the pipe and tighten the fitting fully.



## SUBSTITUTING COMPONENTS

**ATTENTION! Before carrying out any substitutions, make sure that the appliance is disconnected from the electric mains and that the gas cut-off valve is closed.**

### *Safety cock*

To substitute the cock, it is necessary to remove the knobs and the control panel, then unscrew in sequence the pipe union of the piping which goes to the burner, the pipe union of the piping of the pilot burner, the thermocouple and finally, the pipe union of the ramp. Then substitute the part.

### *Thermocouple*

To substitute the thermocouple of the pasta cooker, remove the knobs and take off the control panel. It is then necessary to unscrew the fitting of the thermocouple on the cock and the one on the pilot unit, then substitute the part.

### Some problems and their possible solutions

<i>Problem</i>	<i>Possible solution</i>
The gas burner does not light on	<ul style="list-style-type: none"> <li>• Check that gas inlet pressure is the same as that shown in table TYPE OF GAS</li> <li>• Check that the nozzle of the pilot burner is not blocked</li> <li>• Check that the igniter electrode, is well fixed and connected</li> <li>• Check that the igniter electrode is intact.</li> <li>• Check that the igniter cable is intact.</li> <li>• Check that the piezo is intact and functions correctly</li> <li>• Check the gas cock.</li> </ul>
The pilot burner lights off after loosening the igniter knob	<ul style="list-style-type: none"> <li>• Check that gas inlet pressure is the same as that shown in table TYPE OF GAS</li> <li>• Check that the flame of the pilot burner laps the thermocouple</li> <li>• Press the gas knob in its correct position</li> <li>• Change the thermocouple</li> <li>• Check if the valve magnetic group is rusted</li> <li>• Check the gas cock.</li> <li>• Check if the safety thermostat has been activated.</li> </ul>
The pilot burner stays on but the main burner does not light on	<ul style="list-style-type: none"> <li>• Check that gas inlet pressure is the same as that shown in table TYPE OF GAS</li> <li>• Check that the gas nozzles are not blocked</li> <li>• Check that the burner holes are not blocked</li> <li>• Check that the gas pipe is not blocked</li> <li>• Check that the nozzles installed are in accordance to tables BURNER FEATURES.</li> <li>• Check the gas valve</li> <li>• Check if the safety thermostat has been activated</li> </ul>
Slow and/or insufficient heat	<ul style="list-style-type: none"> <li>• Check that gas inlet pressure is the same as that shown in table TYPES OF GAS</li> <li>• Check that the nozzles installed are in accordance to tables BURNER FEATURES.</li> <li>• Check the gas cock.</li> </ul>

## Connection to the water mains

Connect the water inlet pipe to the mains, following the rules stipulated by the norms in force.

## Drainage

The drainage pipe must not be connected directly to a common drain, but positioned over a reservoir, at a distance which does not allow it come into contact with the sides of the reservoir or with the water inside it, in order to avoid contaminating the food in the tank.

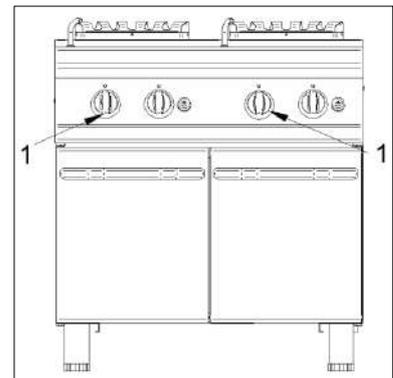
*Make sure that the appliance is turned off before draining the water.*

## INSTRUCTIONS FOR USE

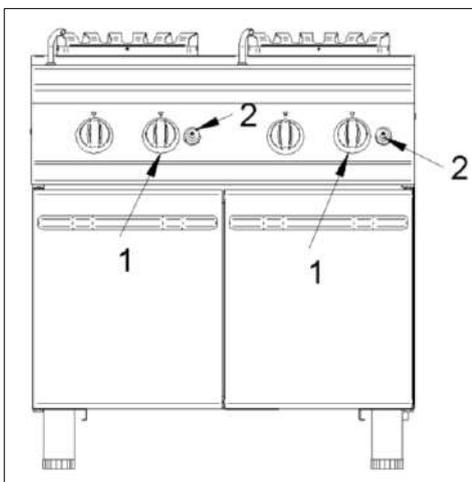
- *The appliance is intended to be used EXCLUSIVELY when its cooking vat contains water; any other use is not considered appropriate.*
- **ATTENTION:** *The appliance cannot be used as a fryer.*
- **ATTENTION:** *The cooking vat of the appliance must not be cooled down hard (i.e. cooling it down by ice or cold water); otherwise there is a danger of cracking the cooking vat itself.*
- **ATTENTION!** *Drain the water from the tank only when the appliance is switched off.*
- **ATTENTION!** *Make sure you have filled the vat with water before turning the appliance on.*
- *When not in use, make sure the appliance is disconnected from the electric mains.*

## Filling the vat

First of all, check that the drainage tap, situated inside the appliance under the combustion chamber, is closed tightly. After that, turn the water filling knob (1) in anti-clockwise direction; fill the tub up to the level mark. During the cooking, it is advisable to leave the tap turned slightly on, in order to keep the right water level and to allow the removal of excess starch through the overflow device.



## Gas Pasta Cooker



To light the burners of the pasta cooker, proceed in the following way:

- turn the knob (1) from the off position ● into the on position ★ ;
- press down fully;
- push the button of the piezoelectric lighter (2) ★ to light the pilot burner;
- keep the knob pressed down until the thermocouple heats up, keeping the pilot lit; this can be checked through the opening in the combustion chamber;
- light the main burner as desired, going from maximum 🔥 to minimum 🔥 .

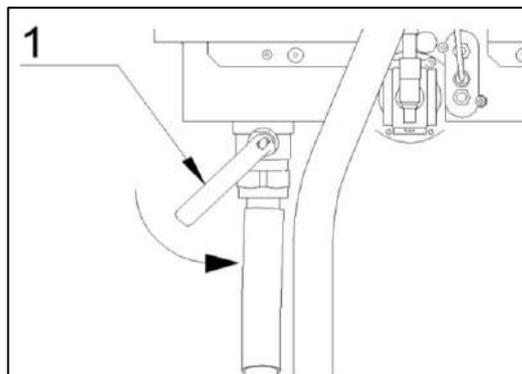
To put out the main burner, it is necessary to turn the knob to the right into the on position ★ , to put out also the pilot, turn the knob again, into the off position ● .

### Emptying the vat

To empty the tub, it is necessary to open the door of the compartment and activate the outlet valve situated inside by turning the lever (1) in anti-clockwise direction.

**Make sure that the appliance is turned off before draining the water.**

**ATTENTION! Only use the appliance under surveillance. Never let the pasta cooker function when empty.**



## CARE AND MAINTENANCE OF THE APPLIANCE

### Cleaning

**ATTENTION! Before doing any cleaning, make sure that the appliance is disconnected from the electric mains. During cleaning operations, avoid using direct or high pressure sprays of water on the appliance. Cleaning must be done when the appliance is cold.**

**The cooking vat of the appliance must not be cooled down hard (i.e. cooling it down by ice or cold water); otherwise there is a danger of cracking the cooking vat itself.**

Steel parts can be cleaned with warm water and neutral detergent, using a cloth. The detergent should be suitable for cleaning stainless steel and should not contain abrasive or corrosive substances. Do not use ordinary steel wool or anything similar, as this can deposit rust-forming iron particles, and avoid contact of iron objects with the stainless steel. It is also inadvisable to use sandpaper or emery paper. Pumice powder should only be used for heavily encrusted dirt; however, a synthetic abrasive sponge or stainless steel wool used in the direction of the glazed finish would be preferable. After washing, dry the appliance with a soft cloth.

When cleaning, abrasive powders of any type, chlorine-based detergents and bleach should all be avoided. Also avoid pouring cold liquids on appliances while they are hot, or cracks could form which could cause the appliance to become deformed or broken.

The stainless steel should not be exposed to prolonged contact with concentrated acidic substances (vinegar, condiments, spice mixtures, concentrated kitchen salt...) as these can create chemical and physical conditions that damage the passivation of the steel; it is therefore advisable to remove these substances using clean water.

If the appliance is not in use for a long time, it is advisable to turn off the gas tap. Then disconnect the main electricity supply; wipe all stainless steel surfaces with a cloth soaked in Vaseline oil in order to give it a protective film; air the rooms now and again.

In particular, in order to clean the baskets and cooking vat – which are made of austenitic stainless steel – and to maintain their features unaltered in time, the user should:

- Never let them dry after use without carefully rinsing them with warm clean water;
- Never pour salt directly within;
- Never use any abrasive or corrosive substances and/or materials such as sponges;
- When washing the appliance, pay attention to all those areas where interstices (such as welding or connections) are: some salted water may stagnate there and this can start corrosion processes;
- Never use substances, detergents and other solutions containing chlorine or its by-products.

If the appliance is out of use for a long time, it is advisable to disconnect the main electricity supply and wipe all stainless steel surfaces with a cloth soaked in vaseline oil in order to give it a protective film and air the rooms now and again.

**ATTENTION:** Never use substances, detergents and other solutions containing chlorine or its by-products.

In order to remove any possible scale-marks, do not use products containing salt or sulphuric acid; suitable products are to be found in the market or, alternatively, a solution diluted in acetic acid can be used.

While cleaning the appliance, do not use inflammable liquids.

### **Abnormal functioning**

If for any reason, the appliance does not start up or stops working during use, check that the energy supply and the control knobs are set correctly; if all is regular, call customer service.