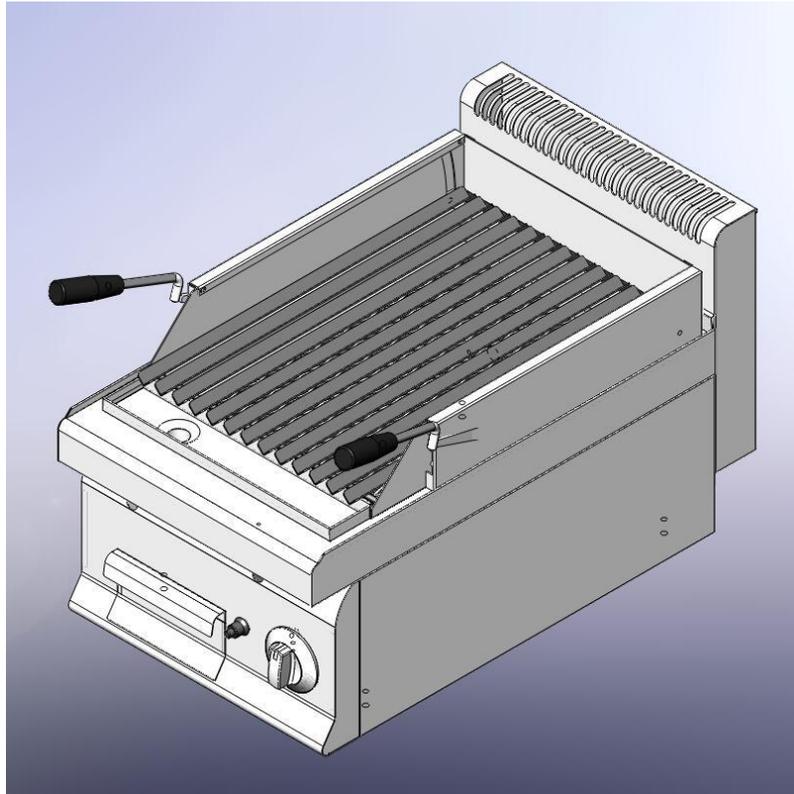


GAS LAVA ROCK GRILL

Installation and Operation Manual

Model No: GLK473C GLGK400-E



Important:

- 1. You are advised to read these instructions first before installation commences.**
- 2. This manual must be handed to the end user after installation and commissioning.**
- 3. These instructions are only valid if the country code appears on the appliance. If the code does not appear on the appliance, refer to the technical instructions for adapting the appliance to the conditions for use in that country.**

Introduction

We are confident that you will be delighted with your Lava Rock Griller, and it will become a most valued appliance in your commercial kitchen.

To ensure you receive the utmost benefit from your new Griller, there are two important things you can do.

Firstly:

Please read the instruction book carefully and follow the directions given. The time taken will be well spent.

Secondly:

If you are unsure of any aspect of the installation, instructions or performance of your appliance, contact your dealer promptly. In many cases a phone call could answer your question.

CE Only:

These instructions are only valid if the country code appears on the appliance. If the code does not appear on the appliance, refer to the supplier of this appliance to obtain the technical instructions for adapting the appliance to the conditions for use in that country.

WARNING:

INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE USER SMELLS GAS ARE TO BE POSTED IN A PROMINENT LOCATION. THIS INFORMATION SHALL BE OBTAINED BY CONSULTING THE LOCAL GAS SUPPLIER.

Technical specification

Technical Specifications Table

MODEL	GLK473C/ GLGK400-E
DIMENSIONS	
WIDTH (mm)	400
DEPTH (mm)	700
HEIGHT (mm)	455
GAS FEED PIPE	G1/2 "
HEAT INPUT (kW)	
LPG	7.0
NATURAL GAS	

1. General Information

- 1) Read the instructions in this manual carefully, as they contain important information on how to install, use and service the appliance safely, properly, and effectively.
- 2) Keep this manual in a safe place so that it can be used as reference by other operators of the appliance.
- 3) This appliance should be installed following the instructions provided by the manufacturer and in compliance with all applicable local regulations. This appliance should be connected to the gas supply by qualified personnel only.
- 4) All personnel in charge of using this appliance should be specifically trained in its operation.
- 5) In the event of failure or malfunction, switch off the appliance. The periodic functional checks requested in this manual should be carried out according to the instructions. Have the appliance serviced by a technically qualified person duly authorized by the manufacturer that uses genuine spare parts.
- 6) Failure to comply with the above may jeopardize the appliance's safety.

2. Safety

2.1 Using the appliance safely

Being an appliance designed only for professional use, it should be operated by qualified personnel exclusively. Never leave the appliance unattended while it is on.
Do not move the appliance while hot.

2.2 Safety instructions in case of malfunction

If the appliance will remain idle for some time or in the event of a failure, abnormal operation, etc., turn off the shutoff valve upstream of the appliance. Call the service.

2.3 Additional prohibitions (hazardous procedures)

Never tamper with the seals of the adjusting screws located on the gas valves.

3. Functional Description

3.1 Application of the appliance

The cooking grate is designed to grill, simmer, and cook any kind of food. It is a versatile unit, which can be used in hotel kitchens, restaurants.

3.1.1 Prohibited use

The manufacturer cannot be held liable for any faults caused by defective installation or inappropriate use of the appliance. In such cases, the warranty shall be null and void.

3.2 Construction

3.2.1 Construction features

Exterior finish and height-adjustable feet are stainless steel.

The appliance is equipped with gas burners controlled by safety valves with thermocouple and pulse electric ignition.

3.2.2 Operating principle

The cooking grate is heated to the required temperature by burners located underneath.

4. Installation

4.1 General information

The manufacturer cannot be held liable for any damage to property or injury to persons deriving from installation errors or from inappropriate use of the appliance and is not responsible for any faults caused by defective installation. In such cases, the warranty shall be null and void.

•It is most important that this appliance is installed correctly and that operation is correct before use. Installation shall comply with local gas, health and safety requirements.

4.1.1 Regulatory installation conditions

For your information, we remind you that all appliances installed in public assembly buildings must meet all the requirements listed below. The appliance should be both installed and serviced in accordance with all applicable regulations and standards in force, namely:

- 1) Safety regulations on fire hazard and panic in public assembly buildings.
- 2) General regulations applicable to all appliances;
- 3) Systems burning combustible gas and liquefied hydrocarbons.

Then, follow the specific regulations according to the type of gas being used.

- 1) Heating, ventilation, refrigeration, air conditioning, and generation of steam and hot water for sanitary use;
- 2) Installation of foodservice cooking appliances;
- 3) Specific regulations applicable to each type of public assembly building (hospitals, shops, etc.).

4.2 Exhausting fumes

The appliance should be installed in a well-ventilated area, if possible under a vent hood, in compliance with all applicable regulations in force. This will ensure that all burnt gases produced during the combustion process are completely exhausted.

NOTE: Do not obstruct or block the appliances flue. Never directly connect a ventilation system to the appliance flue outlet.

4.3 Possible environmental interference

If the appliance is installed with its sides next to flammable walls (made of wood or similar materials) or to heat-sensitive walls (made of plasterboard or similar materials), suitable protective measures should be taken to keep such walls undamaged.

NOTE: Only non-combustible materials can be used in close proximity to this appliance.

	Combustible Surface	None	Combustible Surface
Left / Right Hand Side	150mm		0mm
Rear	150mm		0mm

4.4 Preparing for installation

Check that the appliance is pre-set to use the gas family available at the place of use. If the available gas is different, you will need to convert the appliance to use this other type of gas. For directions, please refer to section "*Adjustment instructions*" below.

4.5 Storage

If the appliance has been stored in a warehouse where room temperature is below 0°C (32°F), it should be warmed up to at least +10 °C (50 °F) before switching it on.

4.6 Transporting the appliance

The best way to transport this appliance is inside its packing to protect it from outside damage. After the appliance has been unpacked, use wooden spacers if you should need to lift it up.

4.7 Unpacking the appliance

Prior to installation, remove all packaging materials from the appliance. Certain parts are wrapped up in adhesive film, which should be carefully removed. Remove any glue traces left on the appliance thoroughly using non-flammable solvents. It is forbidden to use abrasive substances.

4.10 Gas supply connection

This appliance is designed to burn natural and liquid gas. To find out the category to which this appliance belongs in the country where it is installed, please refer to the table below.

Table 1: gas categories and pressure values

Country of destination	Category	Gas	Supply Pressure (mbar)	Manifold Pressure (mbar)	Total Heating Input (KW)	Gas Consumption	Gas Type
GR, GB, AT, BG, CZ, DK, EE, FI, HR, HU, IS, IE, IT, LV, LT, NO, PT, RO, SK, SI, ES, SE, CH, TR, GB	I2H	G20	20	20	7.0	0.74 m ³ /h	
DE, LU, PL	I2E	G20	20/25	20/25	7.0	0.74 m ³ /h	
BE, FR	I2E+	G20/G25	20/25	20/25	7.0	0.74 m ³ /h	
EE, BG, CY, CZ, DK, EE, FI, FR, GB, GR, HR, HU, IT, LT, LU, LV, MT, NL, NO, RO, SE, SI, SK, T	I3+	G30/G31	28 - 30/37	28 - 30/37	6.5	0.51 kg/h	
AT, BG, CH, CY, CZ, DK, EE, ES, FI, FR, GB, GR, IE, IT, LT, LV, NO, PT, RO, SE, SI, SK	I3B/P	G30/G31/ Mixture	30	30	6.5	0.51 kg/h	
AT, CH, DE, SK	I3B/P	G30/G31/ Mixture	50	50	6.5	0.51 kg/h	

This appliance shall be installed in conformity with the current regulations and use only in a well-ventilated location. Consult the instructions before installing and using this appliance.

NOTE: ALL GAS FITTING MUST ONLY BE CARRIED OUT BY A QUALIFIED PERSON.

1. This appliances do not require an electrical connection, as they function totally on the gas supply only.
2. It is essential that the gas supply is correct for the appliance to be installed and that adequate supply pressure and volume are available. The following checks should therefore be made before installation:-
 - a. Gas Type the appliance has been supplied for is shown in the rating label. Check that this is correct for the gas supply the appliance is being installed for. The gas conversion procedure is detailed in this manual.
 - b. Supply Pressure required for this appliance is shown above table 1. Check the gas supply to ensure adequate supply pressure exists.
 - c. The appliance should be connected to the gas supply by means of metal pipes --either rigid or flexible-- having an adequate diameter. When joining pipe fittings, never use oakum or Teflon as their residues could get to the valve and jeopardize its operation. Instead, interpose a seal gasket suitable for use in gas systems.

WARNING:

DO NOT USE A NAKED FLAME TO CHECK FOR GAS LEAKAGES.

4.11 Checking gas supply pressure after installation

Gas supply pressure may be measured using a liquid or a digital manometer.

Proceed as follows:

- 1) Remove the control panel;
- 2) Connect the manometer;
- 3) Start up the appliance by following the information in "Operating instructions";
- 4) Check supply pressure;
- 5) Remove the manometer;
- 6) Refit the screw and check for leaks.

If the measured pressure valve is within the range shown in ."Table 1: Gas categories and pressures", the appliance can be turned on; otherwise, contact your Gas Company.

4.12 Gas technical specifications

The appliance should be started up at its rated output with the nozzles shown in "Table 2: burner specifications" below. All the necessary nozzles are provided in a small bag together with the appliance. The nozzles of the main burners are marked in hundredths of mm, while those of pilot flames have a reference number.

Table 2: burner specifications

Nominal Heat Input (kW)		7.0
Low Heat Input per Burner (kW)		3.5
Liquid gas consumption (kg/h)		0.55
Natural gas consumption (m³/h) - G20		0.74
G20		
Rated pressure (mbar)		20
Max pressure(mbar)		25
Min pressure(mbar)		17
Nozzles	Pilot flame	0.35
	Injector	2.05
G25		
Rated pressure (mbar)		20
Max pressure(mbar)		25
Min pressure(mbar)		17
Nozzles	Pilot flame	0.35
	Injector	2.20
G30/G31/Mixture		
Rated pressure (mbar)		30
Max pressure(mbar)		35
Min pressure(mbar)		25
Nozzles	Pilot flame	0.20
	Injector	1.30
G30/G31		
Rated pressure (mbar)		28-30/37
Max pressure(mbar)		35/45
Min pressure(mbar)		25
Nozzles	Pilot flame	0.20
	Injector	1.30

Table 2: burner specifications (cont')

G30/G31/Mixture		
Rated pressure (mbar)		50
Max pressure(mbar)		57.5
Min pressure(mbar)		42.5
Nozzles	Pilot flame	0.20
	Injector	1.15

4.13 Checking operation

1. Start up the appliance by following the instructions given in chapter "Using the appliance";
2. check for gas leaks;
3. check for flame stability throughout the whole control range by going from high to low.

4.14 Staff training

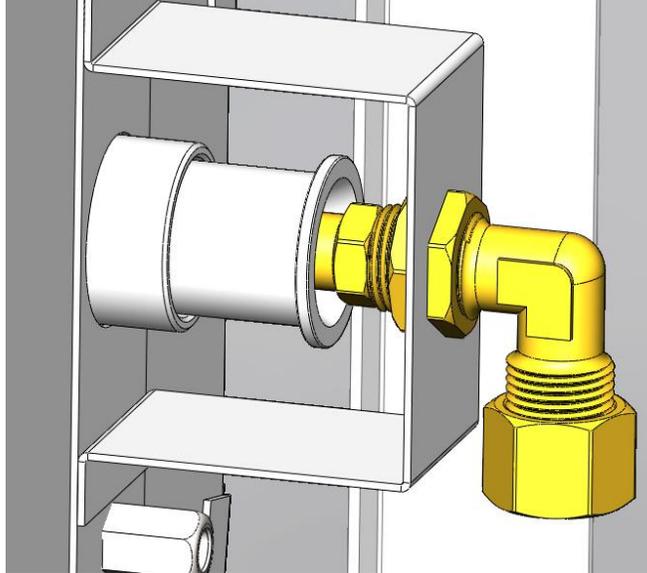
Inform all personnel assigned to operate the appliance on how to use it by referring to this user's manual and hand them out the manual.

4.15 Rating plate

The rating plate showing the specifications of the corresponding model is applied in the position shown in the installation and connection drawings and includes the data listed below:

5. Adjustment Instructions

To convert (for example) from natural gas to liquid gas, you need to change the nozzles of main and pilot burners. The appropriate nozzles are shown in "Table 2: burner specifications".



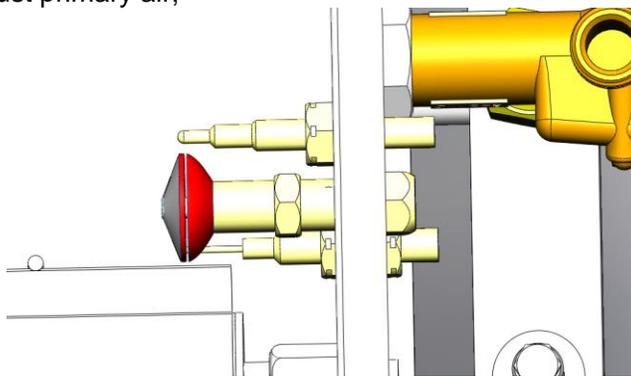
Pic 1: Nozzle

5.1 Adjust air ratio device

- 1) Unscrew the control panel thus can see the adjust air ratio device from bottom view.
- 2) Adjust the air ratio based on burner flame.

5.2 Replacing the nozzle of the pilot flame

- 1) Place a 11-mm spanner on the pilot burner body to counterbalance torsional stress;
- 2) With a 10-mm spanner, unscrew the nut fixing the thermocouple and remove the thermocouple;
- 3) Unscrew the nut fixing the gas pipe and remove the pipe;
- 4) Take the nozzle out of the pilot burner body and replace it with a suitable one (see "Table 2: burner specifications");
- 5) Refitting the spare part is a reversal of removal;
- 6) It is not necessary to adjust primary air;



5.3 Functional check

- 1) Start the appliance by following the "Operating instructions";
- 2) Check for leaks;
- 3) Check for flame stability throughout the ON-OFF-ON control range;
- 4) Check the lighting process along the main burner and check that flames are even;
- 5) Check for proper operation of pilot flame;
- 6) Check that flue gases come out of the corresponding pipes regularly;
- 7) Check that there is a good inflow of fresh air.

6. Operating Instructions

6.1 Before using the appliance

6.1.1 Preparing the appliance for use

Before cooking food for the first time, we recommend cleaning the appliance thoroughly. Remove all packaging materials and adhesive films from the appliance very carefully. Before cleaning the stainless steel parts, make sure that the detergent you intend to use does not contain any abrasive substances and that it is suitable for stainless steel surfaces. Wipe the appliance dry with a clean cloth.

Never use water jets to clean the appliance.

6.2 Using the appliance

6.2.1 Operating controls

By way of example, below are represented 2 of the most comprehensive appliances in this family.

6.2.2 Turning the burners on and off



Fig 1



Fig 2



Fig 3

1. Press the knob and turn it anti-clockwise to the position “”. (Fig 1)
2. Hold down the knob and at the same time press the pulse igniter to light pilot.
3. After lighting the pilot, hold down the knob for 15 more seconds to allow the thermocouple to heat.
4. If the pilot flame goes out when you release the knob, repeat the item 1 to 3 specified above.
5. “Full Flame” can now be achieved by depressing and rotating the gas control knob anti-clockwise to the position “”. (Fig 2)
6. Turn the knob clockwise to the position “”. The burner shall extinguish and the pilot shall remain alight.
7. To turn off the appliance completely, turn the knob fully clockwise to the position “”.

NOTICE:

An unpleasant smell the very first time it is operated can be considered as completely normal.

6.3 After-use care

6.3.1 Cleaning

Before cleaning, turn off the appliance, shut off gas supply upstream of it.

General information

The main causes for stainless steel wear or corrosion are:

- 1) Using abrasive or acid detergents, especially chlorine-based products such as hydrochloric acid or sodium hypochlorite (bleach). Therefore, before buying a detergent product, make sure it does not corrode stainless steel

- 2) Stagnation of ferrous deposits (such as those created by rust dissolved in the water flowing through the piping, especially after the appliance has remained idle for some time). Therefore, avoid such stagnation; do not use wire wool pads to remove the most stubborn food residues. Use, rather, pads or spatulas made of stainless steel or softer, non-ferrous materials;

Stains and abrasions on the steel surface

Scratches and dark stains may be smoothed or removed using stainless steel wool pads or synthetic abrasive sponges, which should always be rubbed in the same direction as the satin finish.

6.3.3 Periodic maintenance

Only qualified personnel are allowed to carry out service and maintenance operations.

The following maintenance operations should be performed at least once a year:

Checking for proper operation of all control and safety devices;

Checking burner combustion, i.e.:

1. ignition;
2. combustion safety;
3. checking for proper operation throughout the entire HIGH-to-LOW control range.

We recommend signing a service agreement providing for at least one check-up a year.

7. Trouble Shooting

This section provides an easy reference guide to the more common problems that may occur during the operation of your equipment. The fault finding guide in this section is intended to help you correct, or at least accurately diagnose problems with your equipment.

Although this section covers the most common problems reported, you may encounter a problem not covered in this section. In such instances, please contact your local authorized service agent who will make every effort to help you identify and resolve the problem. Please note that the service agent will require the following information:

The Model Trade Name and the Serial Number of the Appliance. (Both of them can be found on the rating label located on the appliance.)

Fault	Possible Cause	Remedy
Pilot won't light	No gas supply	Ensure gas isolation valve is turned on, and that bottle is not empty.
	Blocked pilot injector	Call service provider
Pilot goes out when gas control knob released	Releasing knob before the thermocouple has heated.	Hold knob in for at least 20 seconds following ignition of pilot.
	Pilot flame too small. - Gas pressure too low. - Partially blocked pilot injector	Call service provider.
	Thermocouple faulty	Call service provider.
Main burner will not light	Incorrect supply pressure	Call service provider.
	Faulty gas control	Call service provider.

Note: Components having adjustments protected by the manufacturer, are only allowed to be adjusted by an authorized service agent. They are not to be adjusted by an unqualified service person.