GMC MODULE UNIT

Description	EXTEND CONCEPT	
GMC0035		
GMC0078	Module 1300	
GMC0157		



Installer's Instructions

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SUMMARY

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1. INSTALLATION

1.1. General points

Installation must be undertaken in compliance with the following instructions and with local codes and bylaws. Ensure you have a suitable and sufficient risk assessment in place.

This appliance is of A-type and shall not be connected to a flue gas pipe.

The user's manual must be given to the user after installation.

1.2. Handling

It is imperative to leave the appliance on its wooden pallet for handling on site until the final installation.

Unpack and check the appliance for damage upon receipt.

In case of damage, mark delivery note accordingly and immediately (within 48 hours) notify the carrier by registered mail with acknowledgement of receipt.

1.3. Installation

All local fire regulations must be adhered to.

The appliance must be installed under a suitable mechanical extraction hood.

If the apparatus is to be installed against a wall or partition, near a piece of furniture or decorative borders, it is recommended that these are made of fireproof material.

If this is not the case, they must be protected by an approved fireproof, insulating material.

If in doubt of fireproof construction of adjacent walls, distance to combustible material shall be no less than 10 cm.

Remove all plastic protection.

Install the appliance in the kitchen.

Warning



Fixed appliance:

- Check that the masonry plinth is well horizontally leveled.
- Adjust height to level the unit to a horizontal working plan of 900 mm.
- Remove the plinth (fixed with 2 screws) see Gas Connections § 2.2 Fig. B (5).

Any technical action on an appliance must be undertaken by a qualified technician.

The appliance will be isolated from the gas mains by closing the gas valve.

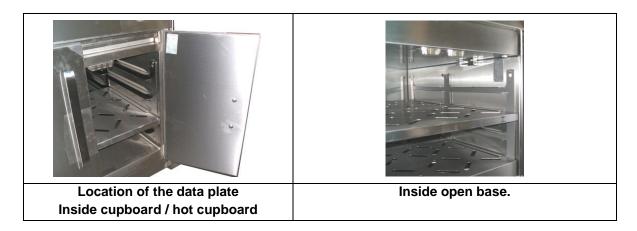
When the appliance is ready for use, ensure the users know how to use it properly. (Please see the user's manual).

Warranty: The warranty is mentioned in our conditions of sale.

This warranty does not cover damage due to faulty installation, misuse or inadequate maintenance.

1.4. Data plate

Each appliance has is own data plate. Transfer all these information on the last page of the user's manual. This will ease the communication between you and your client for better service.



2. GAS CONNECTIONS

Warnings



Fixed appliance:

Connect the appliance to the gas mains using 1/2" NPT pipe and connections. Install a suitable shutoff valve (or valve + pressure regulator) in the supply line, allowing the unit to be isolated from the rest of the cooking range.

2.1. Checks before connection

Check that:

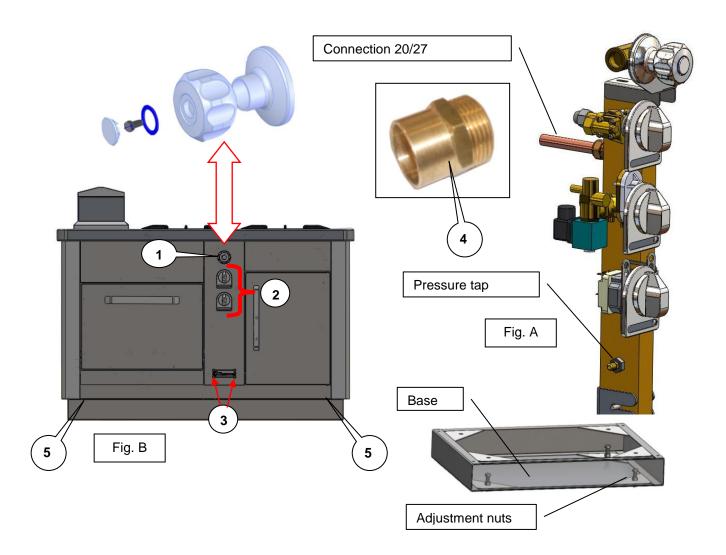
- The mains should be free of obstructions, and clean.
- Ensure that the gas supply pipe is of the correct size for minimum pressure drop according to length, elbows, and total unit capacity.
- The appliance requires a fresh air input of 2m3/h/kW. (See chart below).
- The type of gas used: Ensure that the appliance is set for the type of gas supplied (nature/pressure); see data plate on the appliance and label on the gas connection.

CHART				
Code	Appliance	Power (kW)	Flow of new air required (m³/h/kW)	
GMC0030		43 KW	86 KW	
GMC0033	1300	32 KW	64 KW	
GMC0156		32 KW	64 KW	

2.2. Connecting the appliance to the gas mains:

Remove the control knobs, (2) (fixed with screws) Remove the water tap (1), Unscrew the 2 screws (3) and disengage the control panel. Connect to connection 20/27 (4) located in the technical space.

Note: Nota: The technical space is behind the control panel.



2.3. Checks after connection

- · Watertightness of the gas pipe,
- Supply pressure of the appliance in working condition
- The colour of the flame (blue),
- The slow-down position (see § 3.4.),
- The good working state of the appliance and its safety devices.

2.4. Checks of pressure supply

Taking the pressure:

- · Remove the control knobs,
- · Remove the control panel,
- Connect the manometer on the pressure outlet located on the manifold,
- · Switch ON appliance to maximum setting,
- Then check your figures (see § 3 "Gas Adjustments").

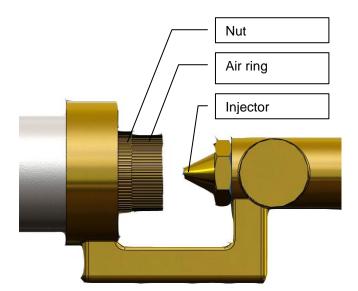
Note: All the appliances connected to the same gas supply should be in working state while taking the pressure supply.

3. CONVERSION TO OTHER TYPES OF GAS

<u>Change of gas upon installation:</u> After having replaced the injectors, ensure of the watertightness of the connection between the injector and its support.

3.1. Changing the injectors and adjusting air

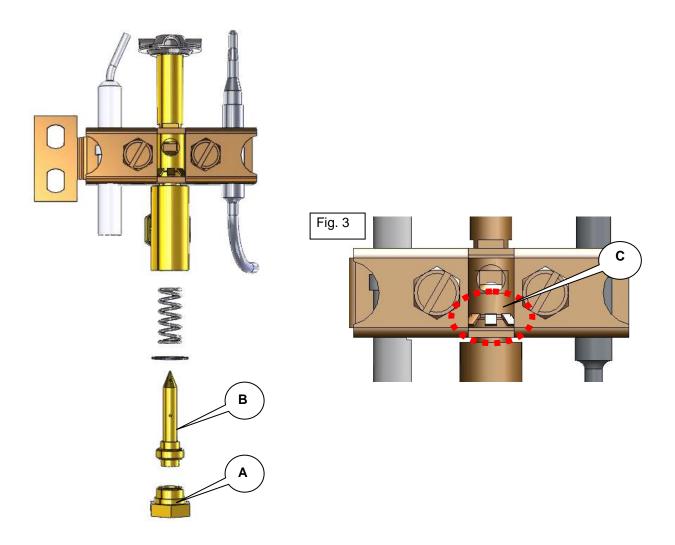
See charts § 3.3. according to the type of burners.



✓ GMC PCF/ Gas oven

- Remove the mild steel base.
- OR remove the solid top and refractory cement heat retention shielding to access the venturi
- You can reach the air ring and injector
- Unlock the air ring (nut/ring)
- Change the injector (ring spanner 12mm) (see chart A § 3.3)
- Adjust distance "d", lock (nut/ring) and seal when adjustment is done

3.2. Changing the injectors and adjusting air of the oven pilot light



- Remove the mild steel base.
- Unscrew the nut (A) with an open-end spanner 11mm.
- Change the injector (B); see chart § 3.3.
- Adjustment of air ring (Fig. 3 (C)); see chart § 3.3.

When the injector is changed, check the watertightness of the gas pipe and the good working condition of the pilot light.

Gas adjustment charts 3.3.

Plaque P	Plaque PM Chart A				
Adjustment	Gas type & operating pressure	Mark engraved on the injector	Air adjustment d (mm)*2	Nominal calorific output (kW)*1	
1	G20: Pn = 20 mbar	240			
2	G 25: Pn = 20 mbar	240	Max		
3	G 25: Pn = 25 mbar				
4	G 30: Pn = 29 mbar			10.5	
5	G 30: Pn = 50 mbar	160	Max		
6	G 31: Pn = 37 mbar	100	IVIAX		
7	G 31: Pn = 50 mbar				

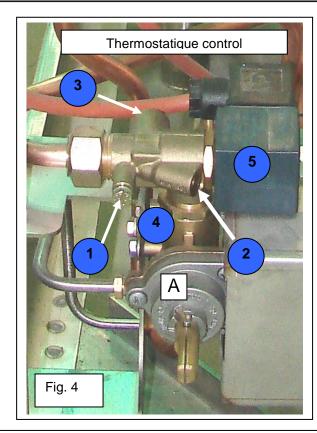
^{1 -} Measured power over lower calorific power of the gas (HI) for 1 burner.2 - Adjustment of measured primary air according to fig. 1.

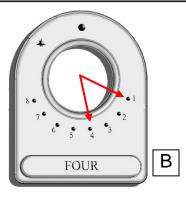
Oven	Oven Chart B					
Adjustment	Gas type & operating pressure	Mark engraved on the injector	Air adjustment d (mm)*2	Nominal calorific output (kW)*1		
1	G20: Pn = 20 mbar	250				
2	G 25: Pn = 20 mbar	250	2			
3	G 25: Pn = 25 mbar					
4	G 30: Pn = 29 mbar			11		
5	G 30: Pn = 50 mbar	170	Max			
6	G 31: Pn = 37 mbar	170				
7	G 31: Pn = 50 mbar					

Oven pilot light Chart C				
	Gas type	Mark	Air	
Adjustment	& operating	engraved	adjustment	
	pressure	on		
		the injector		
1	G20: Pn = 20 mbar			
2	G 25: Pn = 20 mbar	40	none	
3	G 25: Pn = 25 mbar			
4	G 30: Pn = 29 mbar	20	none	
5	G 30: Pn = 50 mbar			
6	G 31: Pn = 37 mbar			
7	G 31: Pn = 50 mbar			

3.4. Adjusting the oven output

Output adjustment is done in factory (Thermostatic control)
Only qualified staff can do the adjustment.
It could be necessary to adjust it.





This operation must be carried out very quickly and before the thermostat responds and the burner turns to the maxi output position.

Note: The maximum output position reduces flames to 1/4 of their size. The burner must remain alight when proceeding from the maximum output position to the minimum output position.

- 1) Pressure tap.
- 2) Mini output screw
- 3) Maxi output screw
- 4) Thermostatic control.

Adjusting the oven slow-down position

- Remove the control panel (see "Gas connection" § 2.2.).
- Refit the control knob (A).
- Ignite the burner and preheat for 15mn about with the door closed and thermostatic control in position 3-4.
- After 15mn, set the thermostatic control in position 1 (fig. B).
- Screw (3) to reduce the maxi output and unscrew to increase it.
- Screw (2) to reduce the mini output and unscrew to increase it.
- Pressure can be measured from the pressure tap (1) (fig. 4).

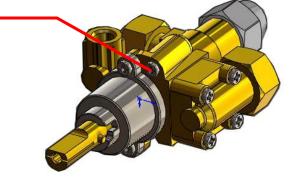
3.5. Adjusting the oven slow-down position

Note: The burner must remain alight when changing from maximum output to minimum output. See § "Adjusting the slow-down position".





- · Remove the control panel,
- (see § 2.1. « Gas connection »); refit the control knob.
- Switch ON the appliance. (See the user's manual, § 2).
- Set control knob to the slow-down position.
- Adjust the screw.
- To increase the slow-down, turn counter clockwise.



4. POWER CONNECTION

Warnings:



The appliance must be earth wired.

It is dangerous to connect the appliance unless it is earthed.

We cannot be held responsible for accidents due to non existent or incorrect earth link connection.

Fixed appliance:

Check that the electric network is equipped with all-pole circuit breakers having a cross section of 3.5 mm at least. All electrical equipment must be in compliance with the standard EN 60335-1.

WARNING.

Use a standardized cable (245 IEC 57 or 245 IEC 66) or other approved cable with the same characteristics.

All controls and checks below are done when the appliance is switched off and cold.

4.1. Checks before connection

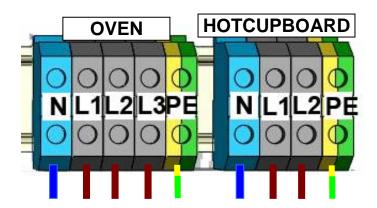
Check that:

- The electrical voltage of the supply is compatible with the voltage of the apparatus (see data plate and § 5).
- The cable is fixed properly,
- The connections are tight enough,
- The section of the cable is of correct size according to the voltage of the apparatus.

4.2. Connecting the appliance to the electric network

✓ Electric ignition

- Unscrew the front control panel to access the connection box (see the "gas connection" section, fig. A),
- Thread cable through the terminal box (fixed with 2 screws),
- Connect cable to the terminals, and follow the information written on the terminal box.
- Before reassembling the parts, check the electrical equipment is properly insulated (cable).



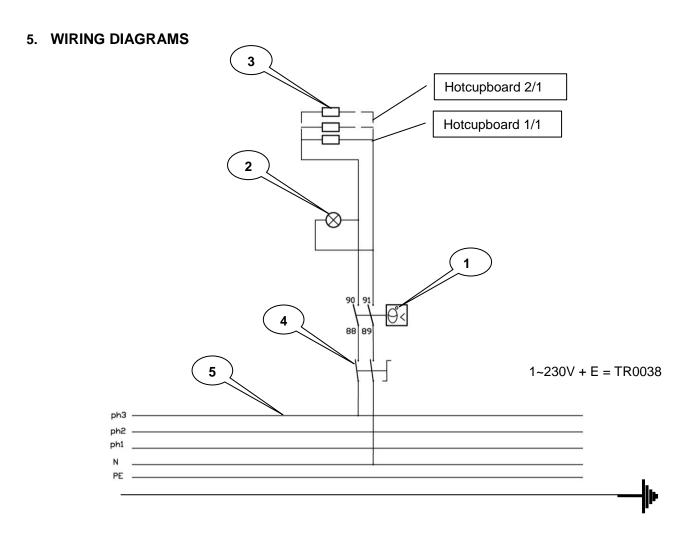
4.3. Checks after connection

- The appliance is earth wired (see the warnings),
- The electric equipment is well isolated from the rest of the equipment,
- The appliance is in good working order (ignition, thermostat, etc.).

STARTING UP: Please see the user's manual, section "Starting up"

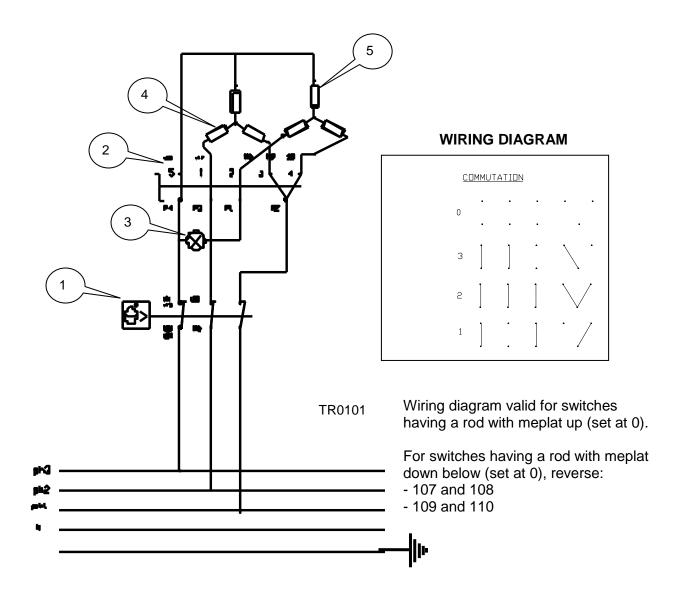
4.4. Adapting the appliance to the various electrical supply voltages

Voltages available				
Voltage of appliance		1~230V + E	3~230V + E	3~400V + E
	Wiring diagrams #	# S = standard coupling		coupling
Hot cupboard	TR0038	S	Α	Α
Electric ignition	TR0087	S	Α	Α
Electric oven	TR0101	S	Α	Α
$A \to \text{Coupling possible} B \to \text{Please consult the factory} C \to \text{Coupling impossible} D \to \text{No voltage available}$				



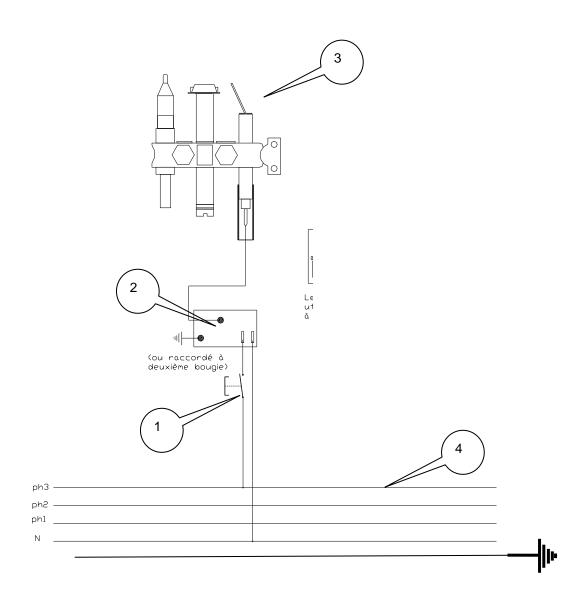
Nomenclature: Hot cupboard – single phase 230 V

Marks	Code	Description	Quantity
01	ELE0304	Regulation thermostat	1
02	ELE0434	230V heating indicator	1
03	ELE0231	Heating element 230V 600W	2
04	02104A	Switch	1
05	02466A	Terminal	3
05	03575A	Earth terminal Vicking	1



Nomenclature: Electric pass-through oven

Marks	Code	Description	Quantity
01	08426A	Thermostat 350°C	1
02	Ele0074	4-position switch	1
03	Ele0435	400V heating indicator	1
04	502632	Vault heating element 1200W	3
05	502637	Mild steel base heating element 1800W	3



Nomenclature: Electric ignition of the burners TR0087

Marks	Code	Description	Quantity
01	ELE0018	Electric ignition push button	1
02	GAZ0002	2-point or 4-point igniter	1
03	07010A	Spark plug	1
04	02466A	Terminal	3
04	03575A	Earth terminal Vicking	1

GMC MODULE UNIT

6. BASIC SPARE PARTS LIST

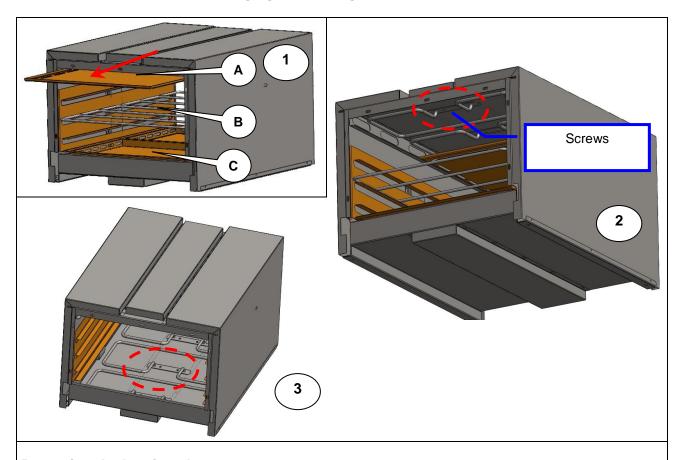
Description / Code	Photograph	Description / Code	Photograph
Gas tap 08094A		Thermostatic control 080425A	
Gas injector for cast iron solid top G20/G25 Ø 2,40 Natural 00208A G31 Ø 1,35 Propane 00200A		Gas injector Oven G20/G25 Ø 2,50 Natural 00209A G31 Ø 1,70 Propane 06250A	
Thermocouple 00290A		3-flame pilot light 07551A	
		Pilot light injector oven G30, G31 Ø 0,20 Propane 06988A G20/G25 00559A Ø 0,40 natural	



Description / Code	Photograph	Description / Code	Photograph
Orange indicator Ele0434 Red indicator Ele0435		Push button for ignition 08865A	
Thermostatic control coil 08936A		4-point igniter 230V GAZ0002	The state of the s
Electric oven heating element Mild steel base 1200W 502632 Vault 1800W 502637		Electrode 07010A	
Hot cupboard heating element 230V ELE0231		Electric Oven switch Ele0074	
Hot cupboard thermostat ELE0304		Switch 02140A	The Part of the Water Land of the Land of
Oven thermostat 350°C 08426A			

7. SERVICING

7.1. Electric oven: changing the heating element

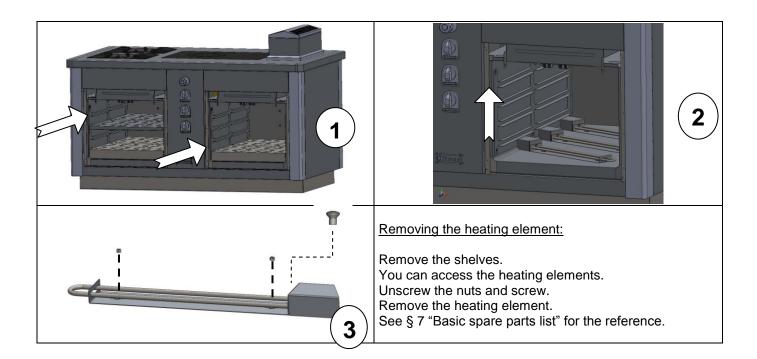


Removing the heating element:

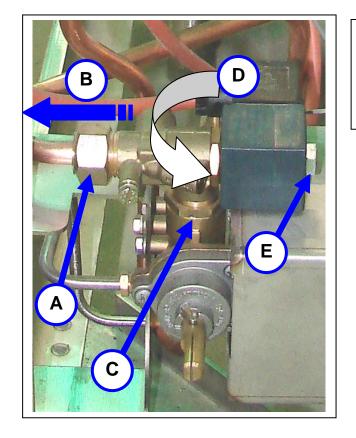
Open the oven door. Remove the enameled vaults from the oven (A), the oven shelves (B) and the mild steel bases (C).

Unscrew the fixing screws (2) and (3) of the heating element, vault and mild steel base.

7.2. Hot cupboard: changing the heating element



7.3. Changing the solenoid valve



• Changing the solenoid valve

(A) Unscrew the nut and pull the copper pipe (B) to
the left very carefully. Unscrew the nut (C), swivel (D)
and unscrew the nut (E) to remove the solenoid valve.

GMC MODULE UNIT

Description	EXTEND CONCEPT				
GMC0035					
GMC0078	Module 1300				
GMC0157					



User's Instructions

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SUMMARY

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1. INTRODUCTION

- A) Our equipment is for professional use only and must be used by qualified staff.
- B) The equipment must be installed in compliance with local codes and bylaws. It must be installed in a kitchen equipped with an adequately sized mechanical extraction system.
- c) Appliances may be installed side by side or against walls of non combustible material. Distance to combustible material shall be no less than 10 cm.
- D) It is imperative to call for a qualified engineer for all new installations or modifications of existing equipment.
- E) <u>WARRANTY:</u> The warranty is mentioned in our conditions of sale. Only a qualified engineer certifies the validity of the warranty. This warranty does not cover damage due to faulty installation, misuse or inadequate maintenance.

2. PRIOR TO STARTING UP

- a) Prior to starting up, it is advisable to clean the appliance in order to eliminate all dust and impurities that have accumulated during storage.
- b) Remove all plastic protection that wraps the stainless steel panels.
- c) Make sure that all controls are in good working condition before turning the gas on.

We recommend ovens are run empty for 1 or 2 hours to avoid an unpleasant taste of new material in food.

3. STARTING UP

General points: Each burner is equipped with a safety thermocouple and a pilot light.

3.1. Cast iron solid top

Take off the central ring.

Push and turn control knob of the desired burner to the left and up to the "full power" position.

Keep pushing thoroughly while pressing the ignition push button.

Keep the control knob pressed for 20 seconds about before releasing it.

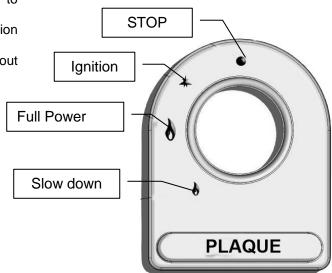
The pilot light must remain ignited.

Repeat the operation if it fails.

With the pilot light ON,

turn the control knob counter-clockwise to the "full power" position (see symbol markings), the burner is working at its nominal power. Turning control knob to the next position (small flame) will slow down the burner.

When done, refit the central ring.



3.2. Gas oven

Pilot light ignition

Push and turn control knob counter-clockwise to the ignition symbol.

Keep pushing thoroughly. At the same time, press the push button and wait for about 20 seconds before releasing it.

If the pilot light blows out, try again and keep pressing control knob a bit longer.

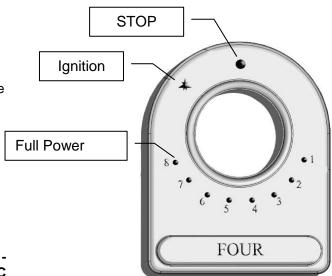
The pilot light can be seen through the hole in the mild steel base.

Temperature regulation device

Press slightly the control knob. Turn it to position "8". The burner starts.

When done, choose the desired temperature.

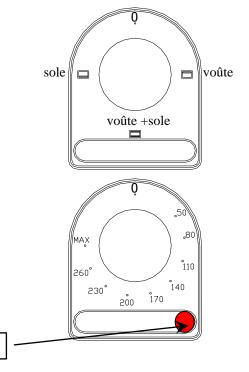
• The temperature positions - from "1" to "8" - refer to temperatures comprised between 100°C and 300°C.



Oven racks enable different positions of shelves and trays according to the cooking time and type of foods. Nevertheless, be careful not to cook on 2 levels at the same time as it will block the burned gases route.

3.3. Electric oven

- Turn control knob to the desired position (vault/vault-mild steel base/mild steel base); the heating indicator is alight.
- Turn thermostat to the desired temperature; the heating indicator is illuminated.
- When the desired temperature is reached, the regulation indicator is darkened. The regulation thermostat will constantly adjust the temperature of the oven.



Red heating indicator

WARNING:

When opening the oven door in "wet" cooking mode, stay clear from the oven as vapours can escape and burn your skin very seriously!

Side panels and oven door may be extremely hot after a prolonged or intensive use. Be careful to open the door only with the handle.

3.4. Electric hot cupboard

The appliance is ON.

Turn the regulation thermostat knob to the desired temperature.

The orange indicator remains illuminated until the desired temperature is reached.



4. SWITCHING OFF

At the end of the day, cut off gas supply and switch off electricity at the mains.

5. MAINTENANCE

Before doing anything on the appliance, wait until cooking areas has cooled down.

5.1. Cleaning the stainless steel surfaces

- a) Turn off the apparatus. After each service and before each cleaning operation, we advise you to disconnect the appliance from the mains.
- b) Wash with a sponge in soapy water (or any other neutral cleaning product).

Do not use bleach or any other acidic product – even well diluted.

Warning:

Clean the solid top with a Tampico brush or a wood spatula.

Never clean the cast iron solid top with ice.

Dry the cast iron solid top carefully to avoid rusting. Then clean with a greasy cloth.

5.2. Cleaning the oven

To avoid fumes due to greases, stains and food particles, we recommend you to clean all the oven internal sides every day.

The mild steel base can be removed to be cleaned. The burner housing can be cleaned as well (see § 5.3). The shelf runners can also be removed to be cleaned (see § 5.3).

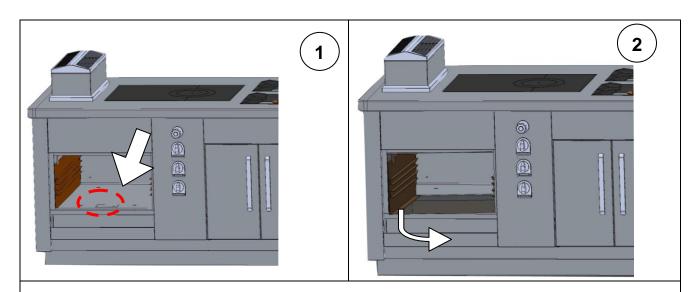
Wash the oven with a sponge in soapy water (or any other neutral cleaning product).

After cleaning, rinse and dry all the parts carefully.

Refit in order all the parts.

This appliance must not be cleaned with mechanical water jets or be subject to a deluge of water under pressure. Check that the appliance is well disconnected at the mains.

5.3. Maintenance of the mild steel base, oven shelf and shelf runners (in a gas oven)



Process: disassembly and reassembly of mild steel base and shelf runners

Remove the oven shelf from the oven.

Remove the mild steel base using the oblong hole (fig. 1).

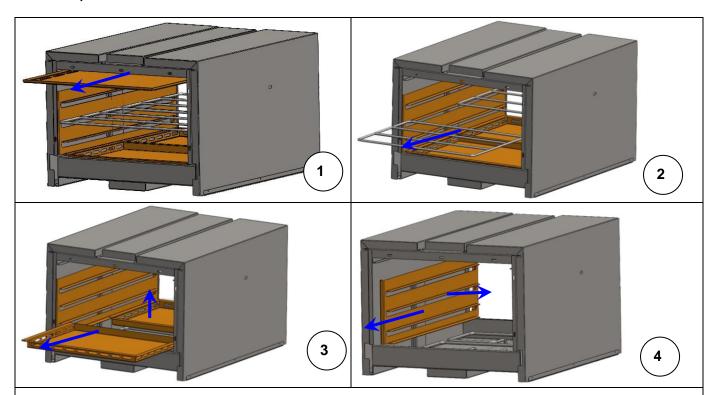
(fig. 2) Grab the shelf runner and pull it to the middle of the oven.

Then remove it from the oven.

The mild steel base is very heavy. Handle with care.

Weight: 23 Kg

5.4. Maintenance of the mild steel base, oven shelf and shelf runners (in an electric oven)



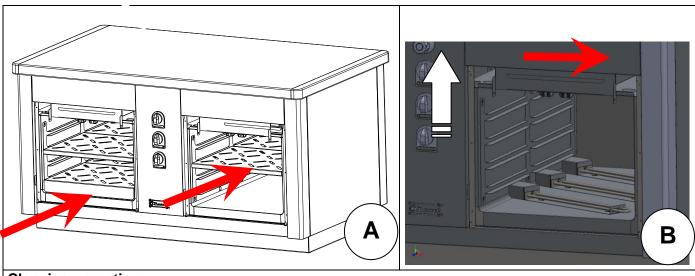
Cleaning the electric oven:

Open the oven door. Remove the enameled vaults from the oven (1), the oven shelves (2) and the mild steel bases (3).

Remove as well the enameled shelf runners (4).

Clean the parts in hot soapy water.

5.5. Electric hot cupboard



Cleaning operation:

Open the door and remove the removable shelves (A). Push them up before pulling them to the middle (B).

Clean the parts in hot soapy water.

For best results, have your equipment serviced and cleaned on a regular basis by a qualified installer.

WARNING: Factory-sealed components must be serviced by neither installer nor user. Only a qualified electrician should replace the parts.

6. POSSIBLE CAUSES OF BREAKDOWN

<u>Breakdown</u>	Probable causes		
	Clogging of the burners, injectors, etc.		
Unsatisfactory heating_	Incorrect gas pressure.		
	Incorrect grading of the injectors.		
	Clogging of the rear internal flue box (oven).		
Incorrect oven	Faulty thermostat.		
temperature			
	Clogging of the pilot lights.		
	Clogging of the thermocouples		
Incorrect \prec	Faulty thermocouples, incorrect output of the pilot lights.		
ignition	Incorrect position of the pilot lights.		
	The control knobs are not pushed far enough.		
Faulty electric ignition	Incorrect position of the spark plug.		

Call for your installer to replace the faulty electric components in preparation for a next use.



The manufacturer and the installer cannot be held responsible if the user neglects to ask for assistance in case of breakdown.

TRANSFER below information written on the data plate of your appliance.

CHARVET S.A. 38850 CHARAVINES									
Réf.	f.								
Code:				Туре:					
N°FC:									
N°OF:				Rep.					
Cat.									
Gaz									
Р	(mbar)								
ΣQ_n	(kW)								
ΣV_n	(m ³ /h)								
ΣM_n	(kg/h)								
U		V		Hz Ip					
Р		kW		~~					
	E [ADE IN	FRAN	CE					

This will help you with maintenance problems and spare parts