

# MODULE GMC 850

<b>Description</b>	<b>EXTEND CONCEPT</b>
<b>GMC0021</b>	<b>MODULE 850</b>
<b>GMC0080</b>	



## *Installer's Instructions*

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MANUAL: GMC 850 SOLID TOP/ELECT OVEN  
Ind. A – Created on: 21.12.2009  
Updated on:

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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. Notify your seller.

### 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 (3).

**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).

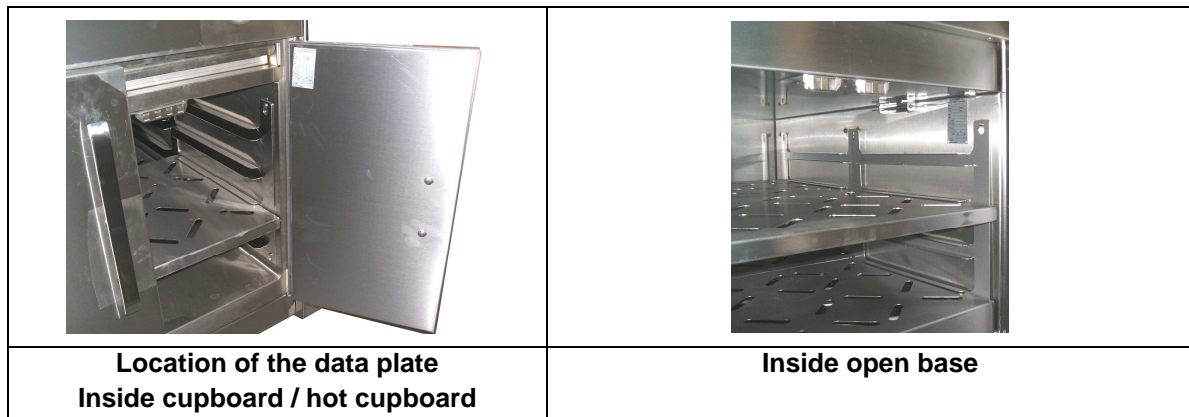
Warranty: The warranty is mentioned in our conditions of sale.

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

**1.4. Data plate**

Each appliance has its own data plate. Transfer all this 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.

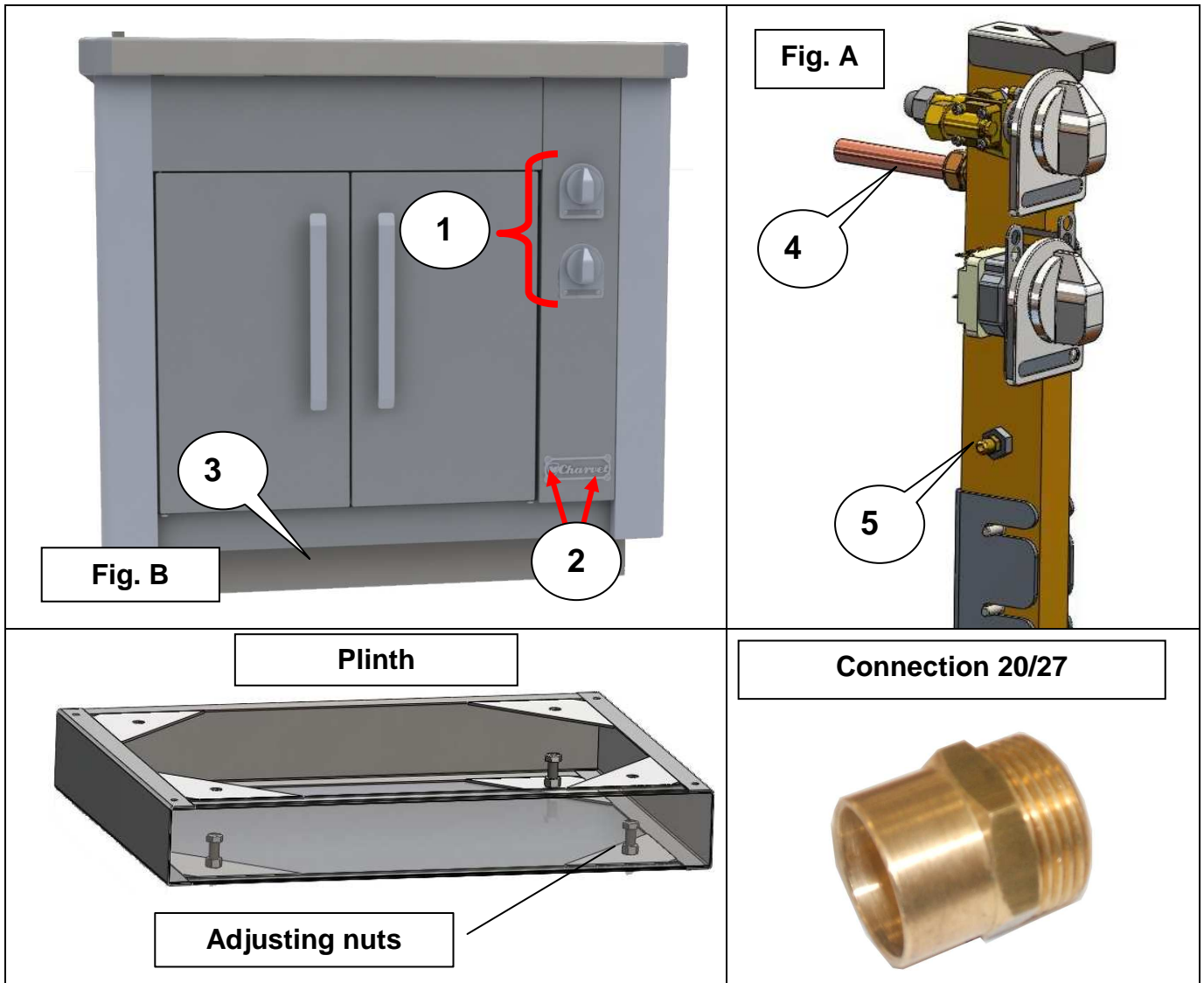
**2.1. Checks before proceeding**

**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 2m<sup>3</sup>/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.

<b>CHART</b>			
<b>Code</b>	<b>Appliance</b>	<b>Power (kW)</b>	<b>Fresh air input required (m<sup>3</sup>/h/kW)</b>
GMC0021	850	10.5 kW	21 kW
GMC0080		10.5 kW	21 kW

2.2. **Connecting the appliance to the gas mains**



Remove the control knobs, ((1) screwed).  
 Unscrew the 2 screws (2) located under the Charvet's logo. Pull the bottom of the panel up and out,  
 Connect to connection 20/27.

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 burner ramp,
- Switch ON appliance to maximum setting,
- Then check your figures (see § 3 "Gas Adjustments").

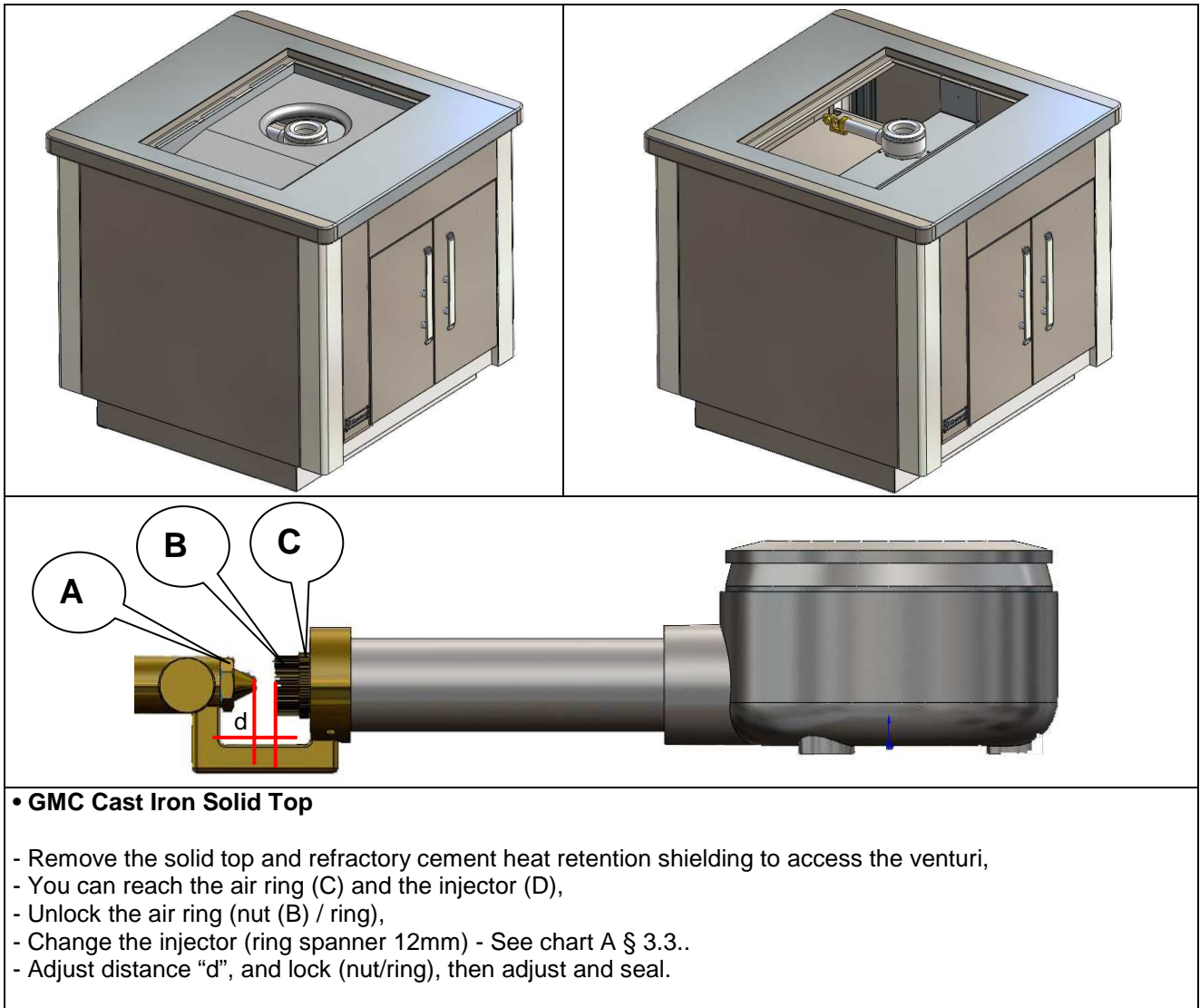
Note: All the appliances connected to the same gas supply should be in working state while taking the pressure supply.

**3. CONVERSION TO OTHER TYPES OF GAS**

Change of gas upon installation: 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 the air**

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



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

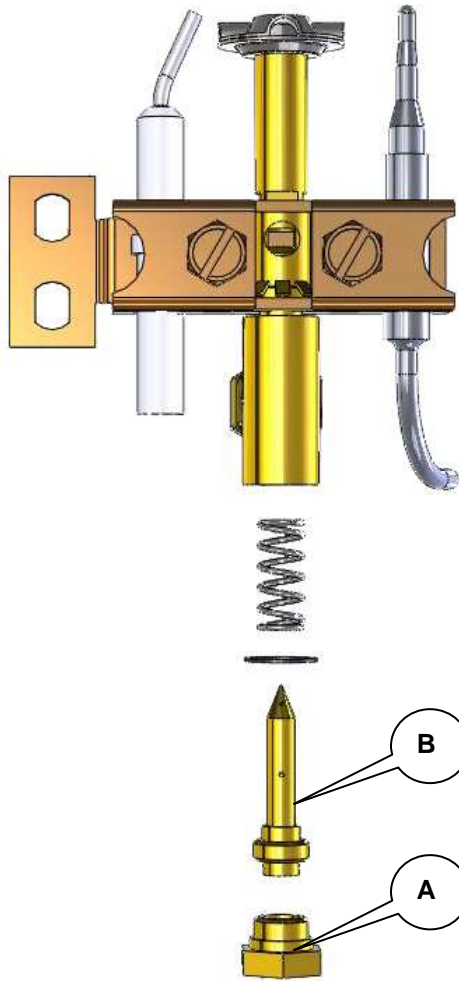
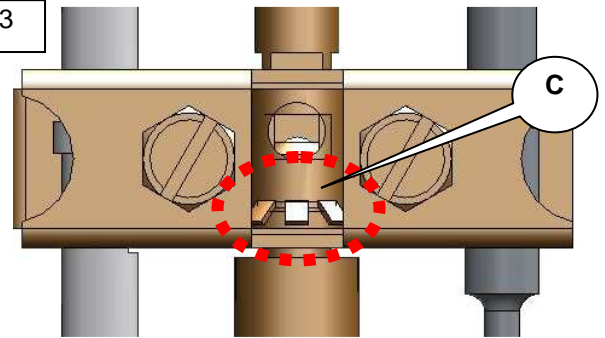


Fig. 3



- Remove the solid top and refractory cement heat retention shielding to access pilot light
- 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.
- Check the watertightness of the gas pipe and the good working condition of the pilot light.

3.3. Gas adjustment charts

Small cast iron plate				Chart A
Air	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	Max	10.5
2	G 25: Pn = 20 mbar			
3	G 25: Pn = 25 mbar			
4	G 30: Pn = 29 mbar	160	Max	
5	G 30: Pn = 50 mbar			
6	G 31: Pn = 37 mbar			
7	G 31: Pn = 50 mbar			

1 – Measured power over lower calorific power of the gas (HI) for one open burner.

2 – Adjustment of measured primary air according to fig. 1.

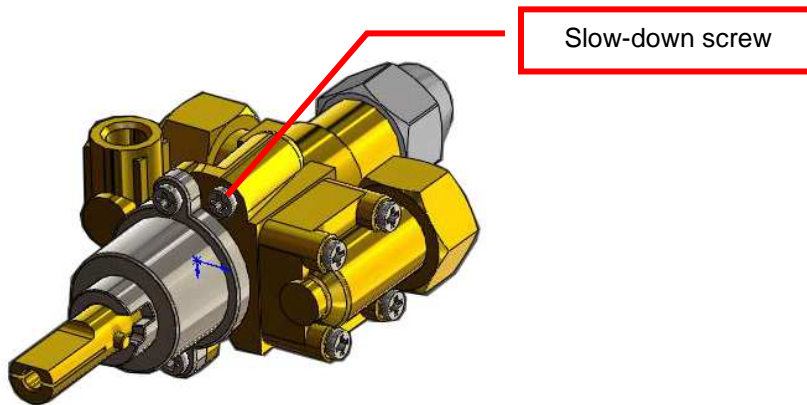
Oven				Chart B
Air	Gas type & operating pressure	Mark engraved on the injector	Air adjustment d (mm)*2	Nominal calorific output (kW)*1
1	G20: Pn = 20 mbar	250	2	11
2	G 25: Pn = 20 mbar			
3	G 25: Pn = 25 mbar			
4	G 30: Pn = 29 mbar	170	Max	
5	G 30: Pn = 50 mbar			
6	G 31: Pn = 37 mbar			
7	G 31: Pn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

Oven Pilot light			Chart C
Air	Gas type & operating pressure	Mark engraved on the injector	Air adjustment
1	G20: Pn = 20 mbar	40	Sans
2	G 25: Pn = 20 mbar		
3	G 25: Pn = 25 mbar	20	Sans
4	G 30: Pn = 29 mbar		
5	G 30: Pn = 50 mbar		
6	G 31: Pn = 37 mbar		
7	G 31: Pn = 50 mbar		



3.4. **Adjusting the slow-down position**

**Adjusting the slow-down position of the burner**



- Remove the control knobs,
- Remove the control panel, (see § 2.2. – gas connections)
- Refit in place the control knob
- Switch ON the appliance. (See the user's manual, § 2).
- Set control knob to the slow-down position (fig. 3)
- Adjust the screw.
- To increase the slow-down position, unscrew the screw (fig. 3)

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

#### 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 proceeding

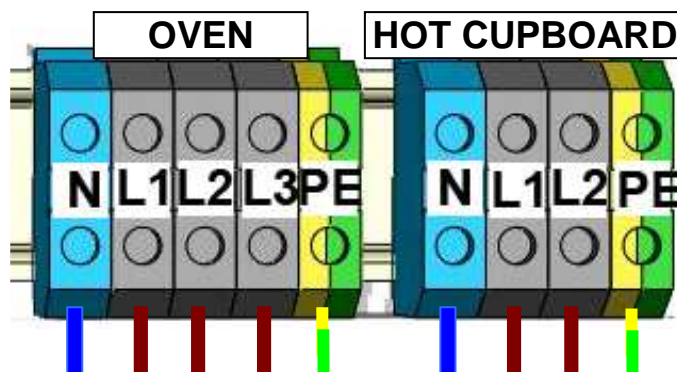
Check that:

- 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 § “Gas connection” 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).

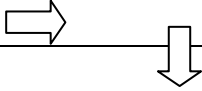


4.3. **Checks after proceeding**

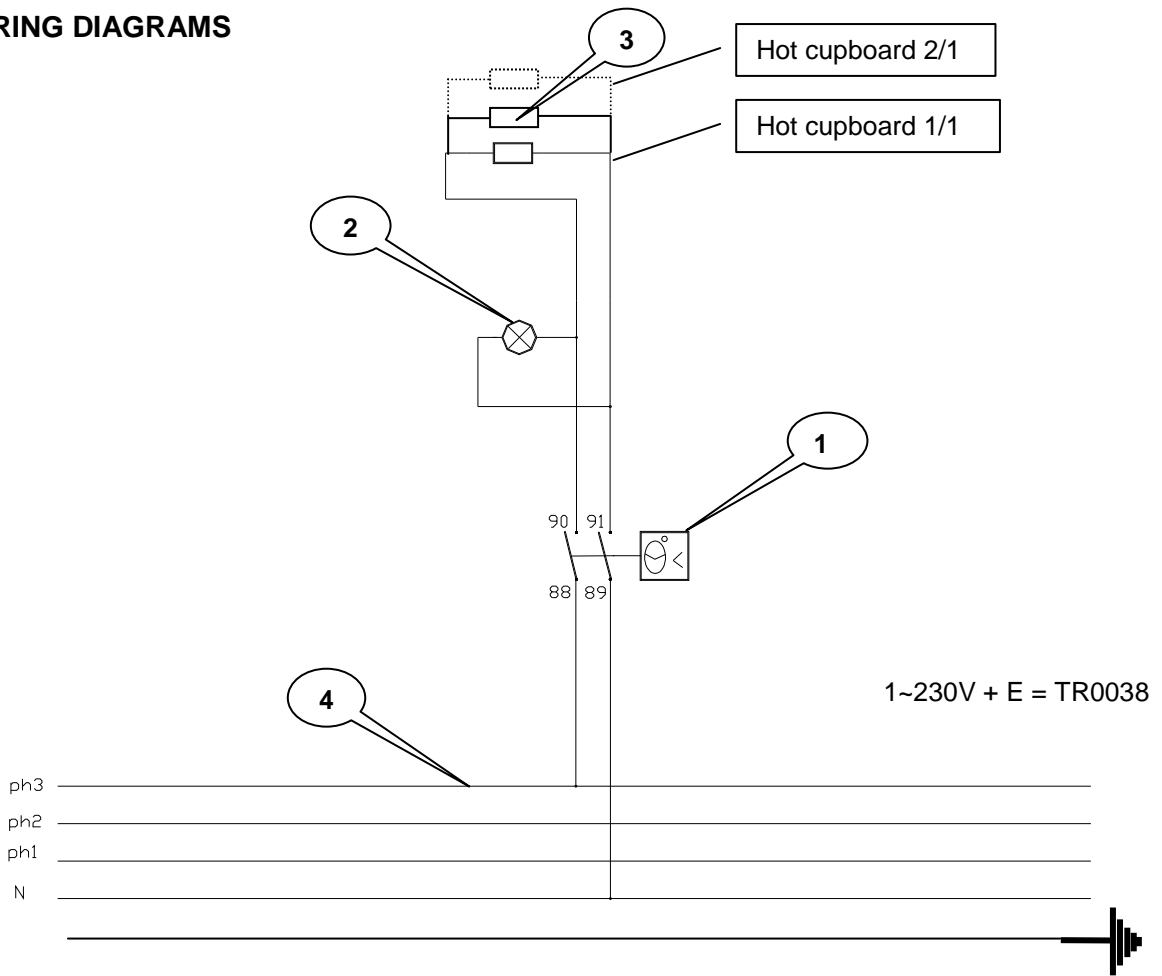
- The appliance is earth wired (see the warnings)
- The electric equipment is well isolated from the rest of the equipment,
- The appliance is in good working order (ignition, thermostat, etc.).

STARTING UP: Please see the user’s manual, section “Starting up”

4.4. **Adapting the appliance to the various electrical supply voltages**

<i>Voltages available</i>				
<i>Voltage of appliance</i>		1~230V + E	3~230V + E	3~400V + E
	<b>Wiring diagrams #</b>	<b>S = standard coupling</b>		
<b>Hot cupboard</b>	<b>TR0038</b>	<b>S</b>	<b>A</b>	<b>A</b>
<b>Electric ignition</b>	<b>TR0087</b>	<b>S</b>	<b>A</b>	<b>A</b>
<b>Electric oven</b>	<b>TR0101</b>	<b>S</b>	<b>A</b>	<b>A</b>
A → Coupling possible B→ Please consult Charvet C → Coupling impossible D → No voltage available				

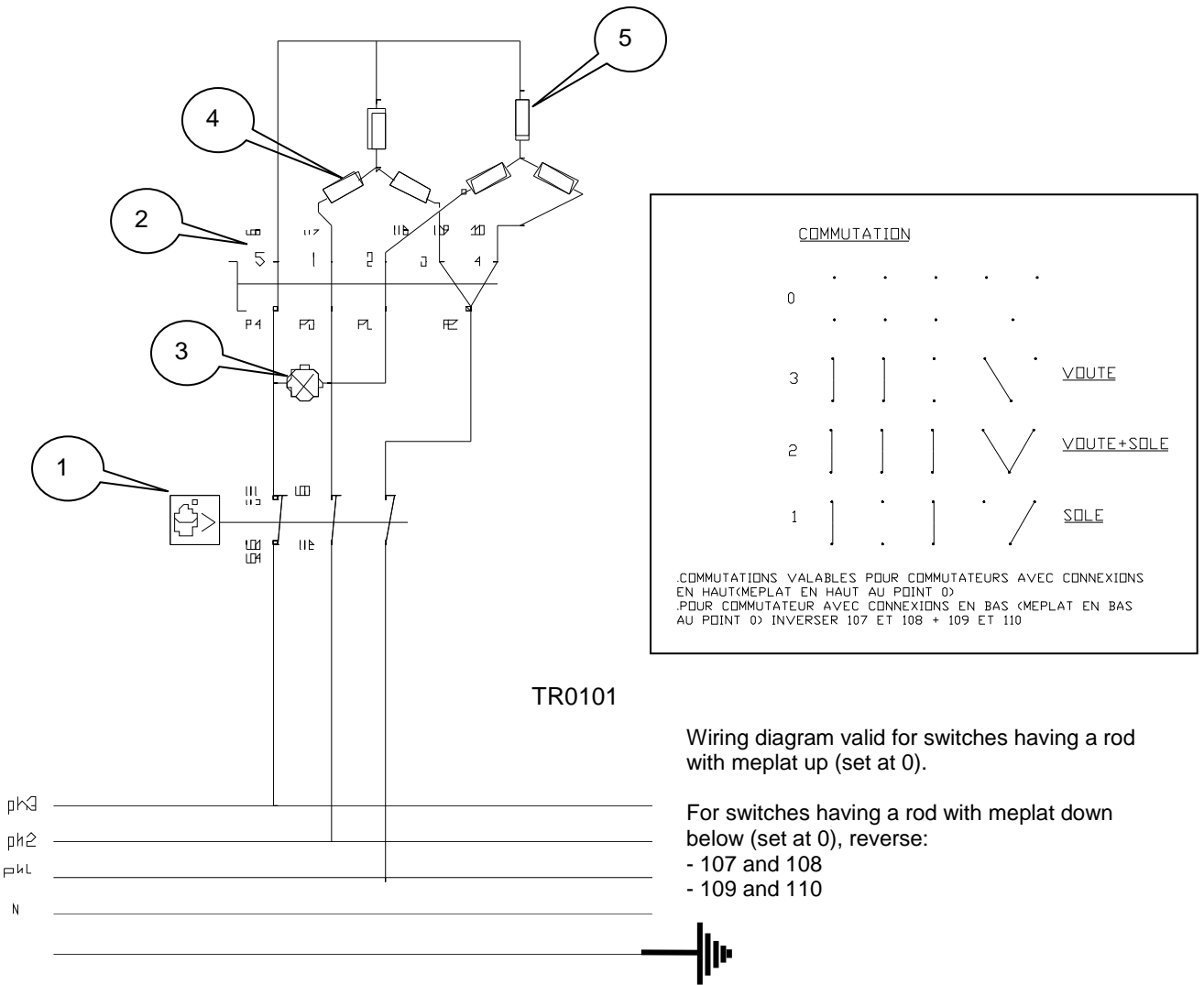
5. WIRING DIAGRAMS



NOMENCLATURE: Hot cupboard – single phase 230 V

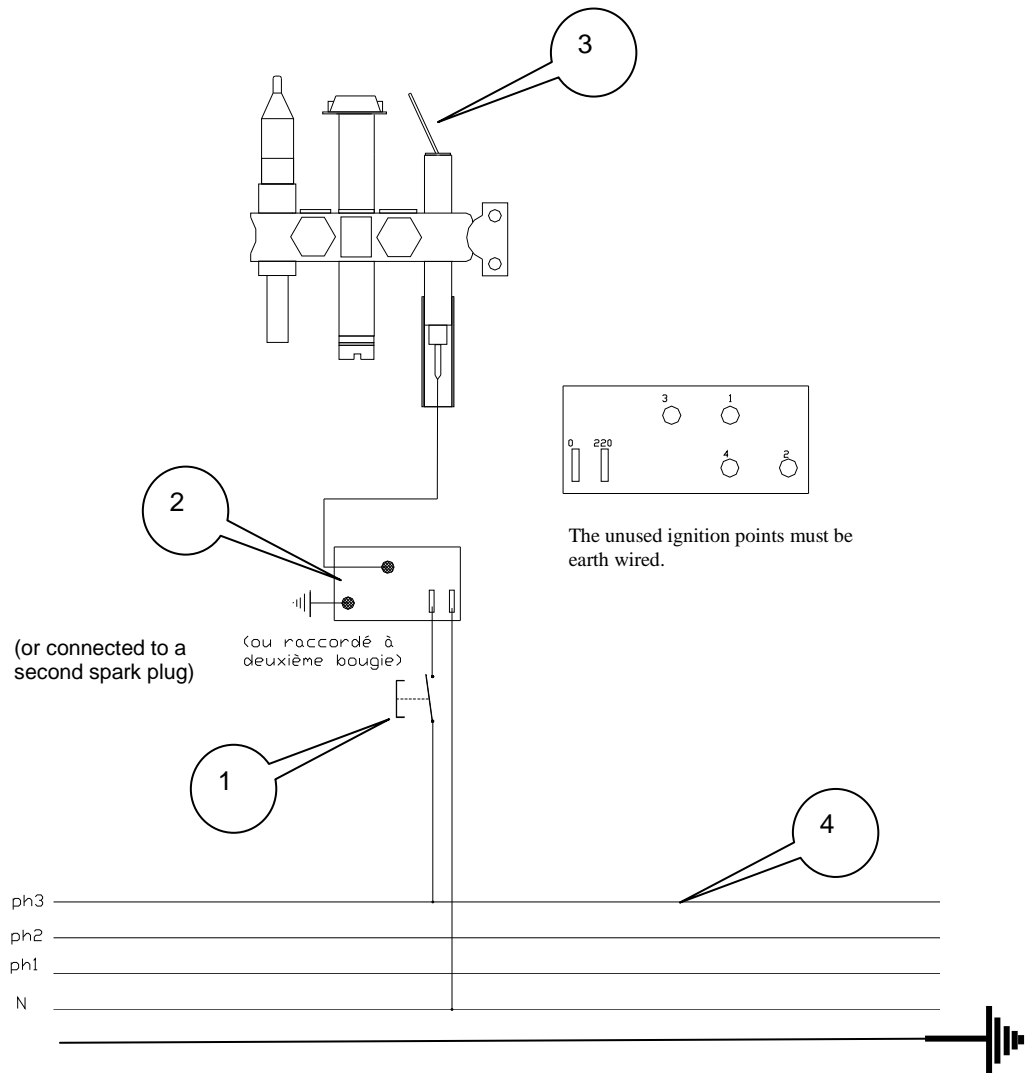
Marks	Code	Description	Quantity
01	ELE0304	Regulation thermostat	1
02	ELE0434	230V heating indicator	1
03	ELE0231	Heating element 230V 600W	2
04	02466A	Terminal	3
04	03575A	Viking earth terminal	1

# GMC 850 SOLID TOP / ELECT OVEN



## 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**

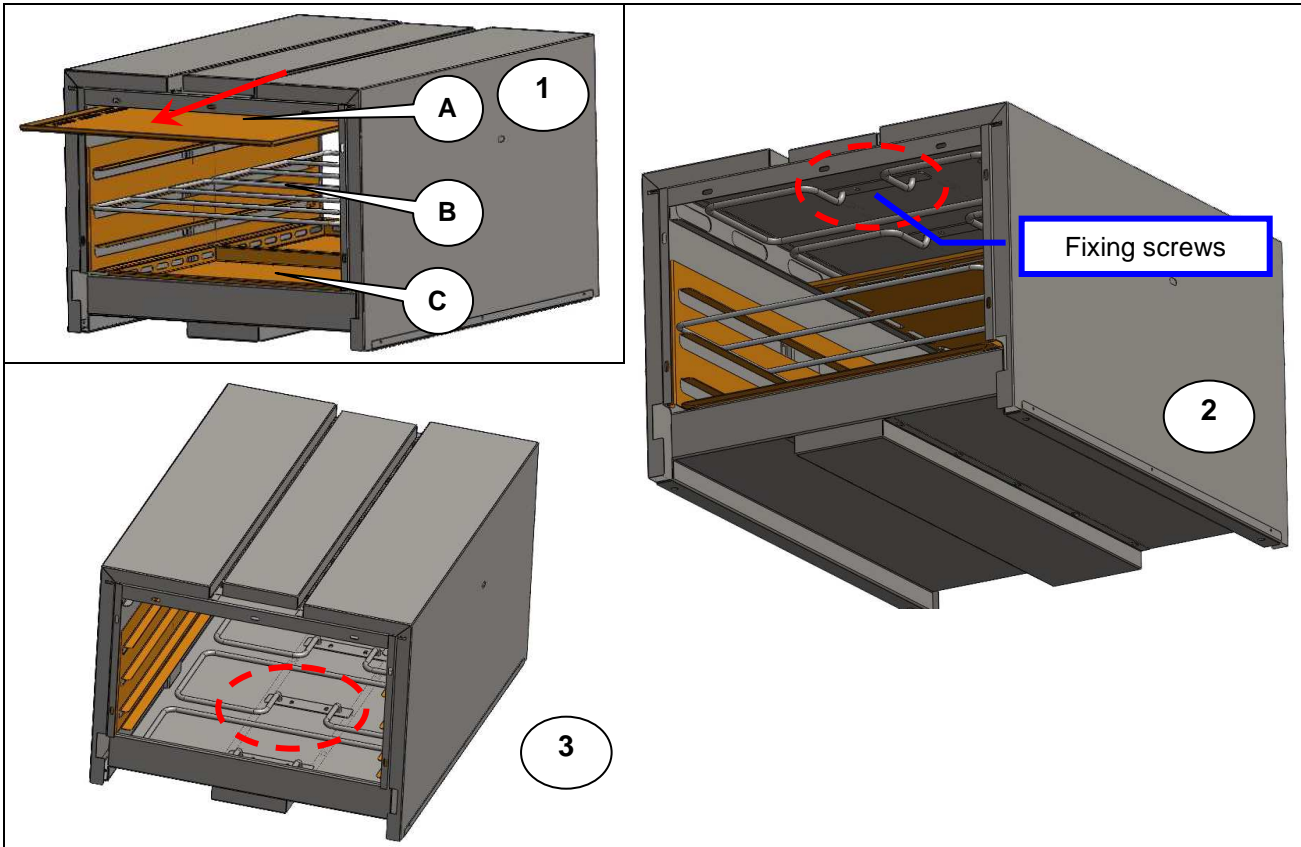
Marks	Code	Description	Quantity
01	ELE0018	Electric ignition push button	1
02	GAZ0002	2-point or 4-point ignitor	1
03	07010A	Spark plug	1
04	02466A	Terminal	3
04	03575A	Earth terminal Vicking	1

6. BASIC SPARE PARTS LIST

Description / Code	Photograph	Description / Code	Photograph
Gas tap 08094A		3-flame pilot light 07551A	
Gas injector for cast iron solid top G20/G25 Ø 2,40 Natural 00208A G31 Ø 1,35 Propane 00200A		Thermocouple 00290A	
Orange indicator Ele0434 Red indicator Ele0435		Push button for ignition 08865A	
Electric oven heating element Mild steel base 1200W 502632 Vault 1800W 502637		4-point ignitor 230V GAZ0002	
Hot cupboard heating element 230V ELE0231		Electrode 07010A	
Hot cupboard thermostat ELE0304		Oven switch Ele0074	

8. MAINTENANCE

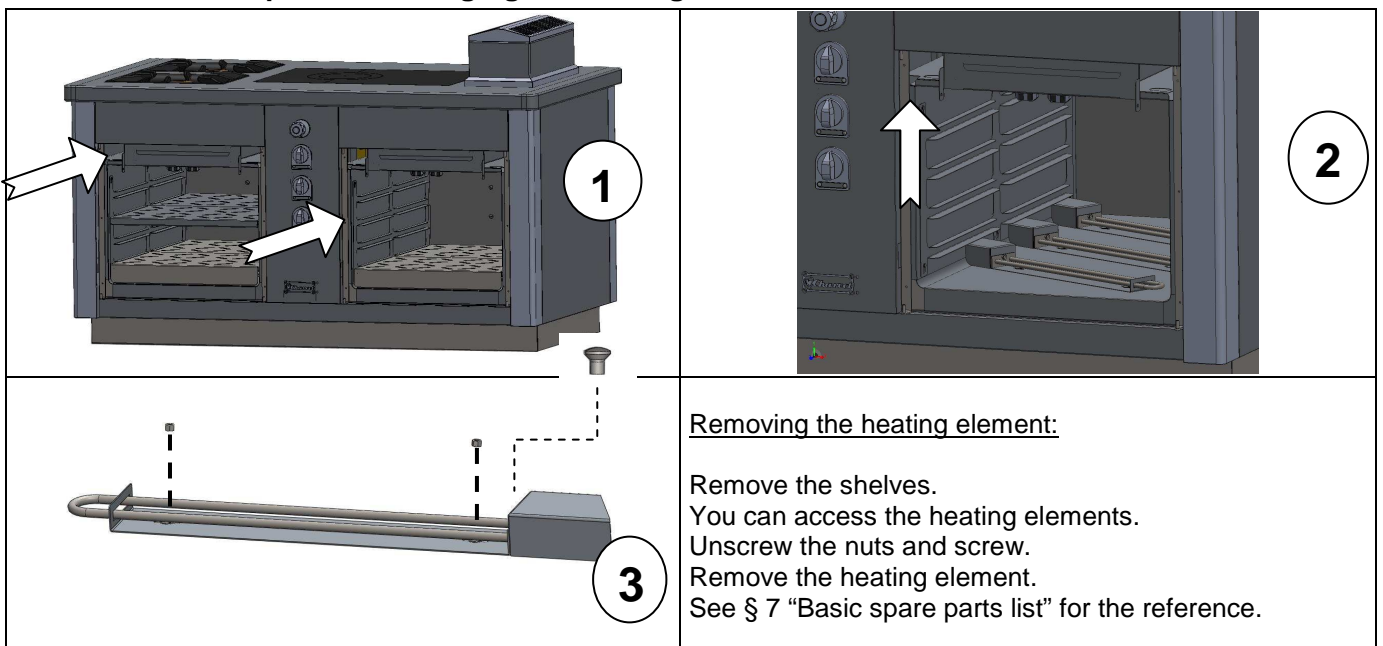
8.1. Electric oven: changing the heating element



**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.

8.2. Hot cupboard : changing the heating element



Removing the heating element:

Remove the shelves.  
You can access the heating elements.  
Unscrew the nuts and screw.  
Remove the heating element.  
See § 7 "Basic spare parts list" for the reference.



# MODULE GMC 850

<b>Description</b>	<b>EXTEND CONCEPT</b>
<b>GMC0021</b>	<b>MODULE 850</b>
<b>GMC0080</b>	



## *User's Instructions*

CHARVET

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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) **WARRANTY:** *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.

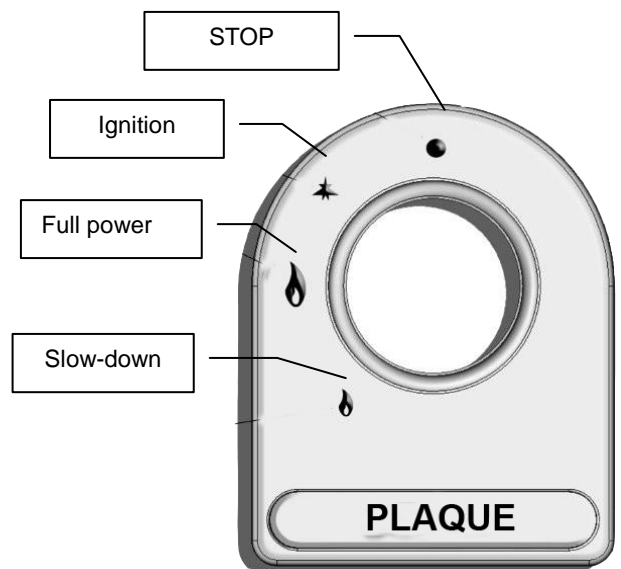
We recommend ovens are run empty for 1 or 2 hours to avoid an unpleasant taste of new material in food.

## **3. STARTING UP**

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

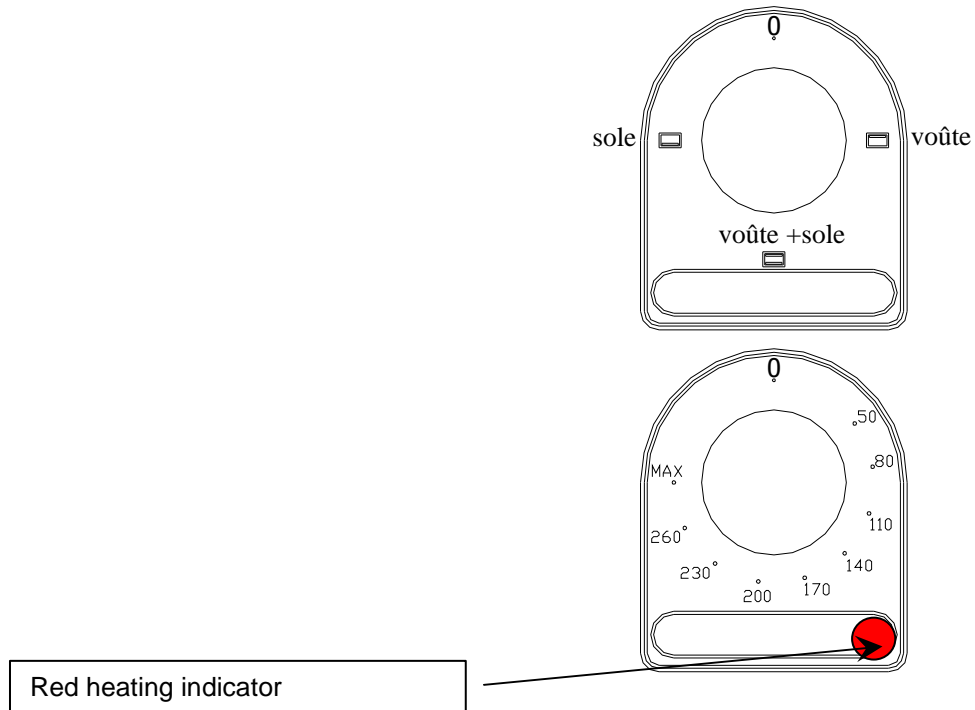
### **3.1. Cast iron solid top**

- 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. **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.



**WARNING:**

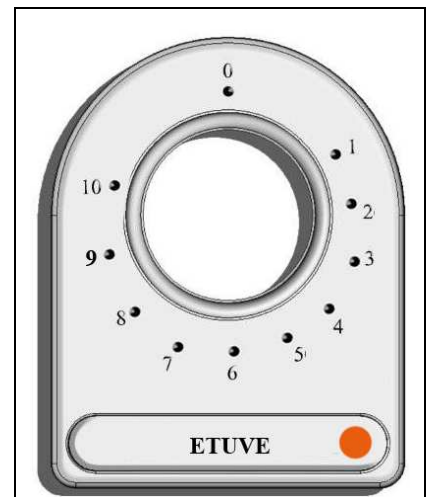
*When opening the oven door in “wet” cooking mode, stay clear from the oven as vapours can escape and burn your skin very seriously!*

*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.*

3.3. **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

- Turn off the apparatus. After each service and before each cleaning operation, we advise you to disconnect the appliance from the mains.
- 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.

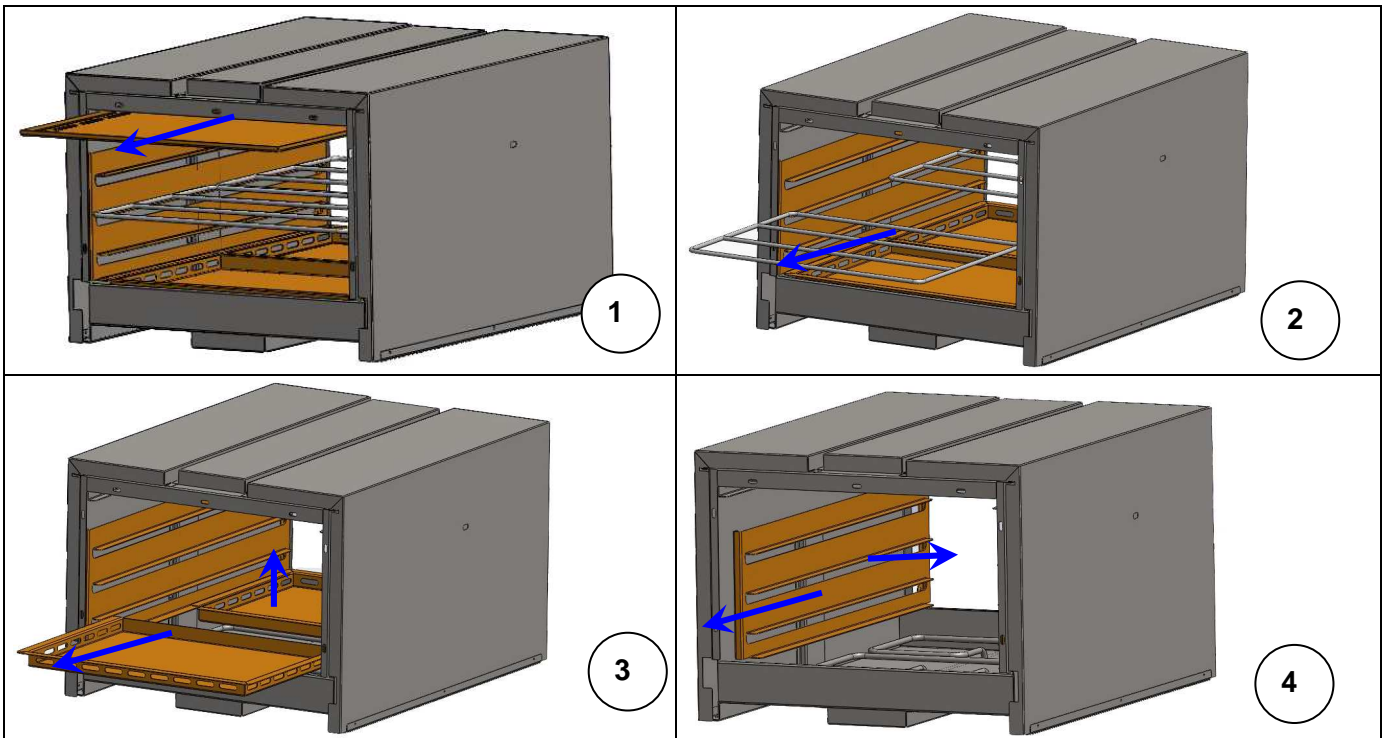
##### 5.2. Cleaning the oven

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.**

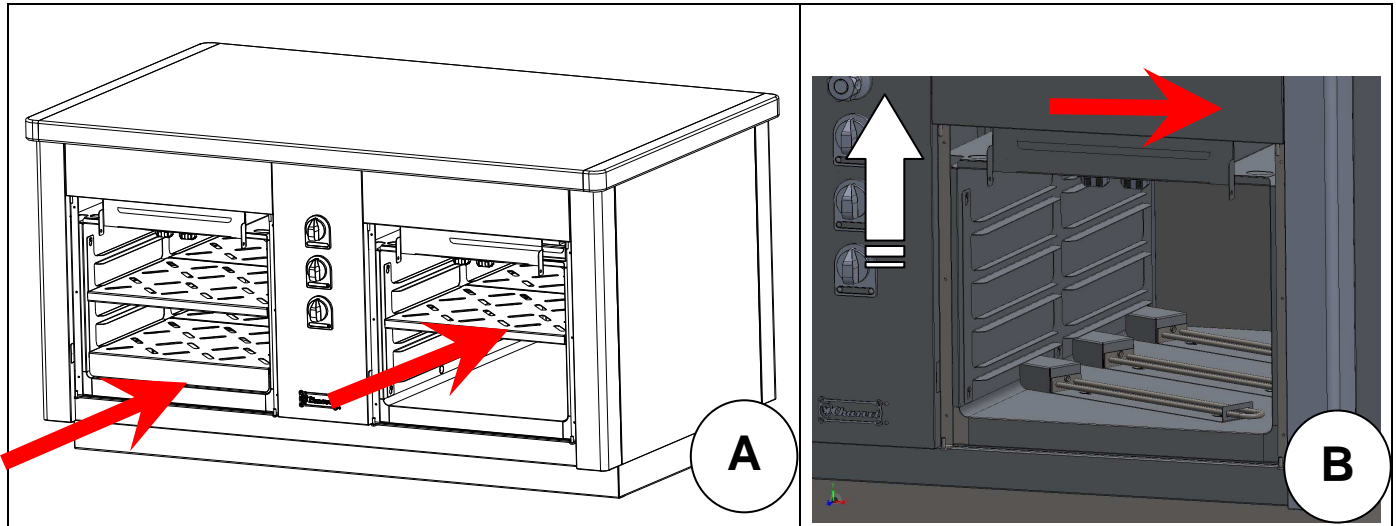
##### 5.3. Maintenance of the mild steel base, oven shelf and shelf runners (in an electric oven)



#### Cleaning the electric oven:

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.

5.4. 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. IN CASE OF BREAKDOWN**



Breakdown	Probable causes
Unsatisfactory heating	Clogging of the burners, injectors, etc.
	Incorrect gas pressure.
	Incorrect grading of the injectors.
	Clogging of the rear internal flue box (oven).
Incorrect oven temperature	Faulty thermostat.
Incorrect ignition	Clogging of the pilot lights.
	Clogging of the thermocouples
	Faulty thermocouples, incorrect output of the pilot lights.
	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.

 <b>CHARVET S.A.</b> <b>38850 CHARAVINES</b>	
Réf.	<input style="width: 60%;" type="text"/>
Code:	<input style="width: 40%;" type="text"/> Type: <input style="width: 20%;" type="text"/>
N°FC:	<input style="width: 40%;" type="text"/> <input style="width: 20%;" type="text"/>
N°OF:	<input style="width: 40%;" type="text"/> Rep. <input style="width: 20%;" type="text"/>
Cat.	<input style="width: 70%;" type="text"/>
Gaz	<input style="width: 70%;" type="text"/>
P (mbar)	<input style="width: 70%;" type="text"/>
$\Sigma Q_n$ (kW)	<input style="width: 70%;" type="text"/>
$\Sigma V_n$ (m <sup>3</sup> /h)	<input style="width: 70%;" type="text"/>
$\Sigma M_n$ (kg/h)	<input style="width: 70%;" type="text"/>
U	<input style="width: 20%;" type="text"/> V <input style="width: 20%;" type="text"/> Hz Ip <input style="width: 20%;" type="text"/>
P	<input style="width: 20%;" type="text"/> kW <input style="width: 40%;" type="text"/>
	<input style="width: 60%;" type="text"/>
MADE IN FRANCE	

This will help you with maintenance problems and spare parts