



## INSTALLATION MANUAL



### WATER-JACKETED BOILING PAN GAS-POWERED – 150 LITRES

Description	Code
PRO900-GI-MF-150-BME	V03199





<b>SECTION 1</b>	<b>INTRODUCTION</b>	<b>PAGE 2</b>
1.1	Foreword	PAGE 2
1.2	Scope of application of the manual	PAGE 2
1.3	Accessories	PAGE 2
1.4	About the symbols in this manual	PAGE 3
1.5	Legal notice concerning the recycling of the electrical and electronic components of the appliance	PAGE 3
<b>SECTION 2</b>	<b>INSTALLATION</b>	<b>PAGE 4</b>
2.1	General	PAGE 4
2.2	Handling - Positioning	PAGE 4
2.3	Installation	PAGE 4
2.4	Assembly and precautions	PAGE 4
2.5	Data plate	PAGE 4
<b>SECTION 3</b>	<b>UTILITIES</b>	<b>PAGE 5</b>
3.1	Electrical connection	PAGE 5
3.2	Gas connection	PAGE 6
<b>SECTION 4</b>	<b>BURNER CONVERSION</b>	<b>PAGE 7</b>
4.1	Changing the injectors	PAGE 7
4.2	Gas settings tables	PAGE 9
4.3	Pressure check	PAGE 9
<b>SECTION 5</b>	<b>MAINTENANCE - SERVICING</b>	<b>PAGE 10</b>
5.1	Wiring diagram	PAGE 10
5.2	Gas circuit diagram	PAGE 11
5.3	Water circuit diagram	PAGE 11
5.4	List of emergency parts	PAGE 12




## 1.1 FOREWORD


Thank you for choosing Charvet equipment for your installation. Our equipment is designed and manufactured in France by our teams who are committed to meeting five targets:

- ROBUSTNESS
- PERFORMANCE
- HYGIENE
- ERGONOMICS
- SAFETY

If, however, despite our commitment and effort, you encounter a problem with one of our products, please get in touch with our After-sales service.

**Information:** [info@charvet-sa.fr](mailto:info@charvet-sa.fr)  
**After Sales Service:** [sav@charvet-sa.fr](mailto:sav@charvet-sa.fr)  
 Tel.: +33 (0)4 76 06 64 22

 <b>INFORMATION</b>	Our appliances are intended for professional use and should be used by qualified personnel. Any modifications to existing equipment or any new installations must be carried out by a qualified installer.
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## 1.2 SCOPE OF APPLICATION OF THE MANUAL

This instruction is applicable to equipment with the code and description shown in the table below.









Description	PRO 900
PRO900-G1-MF-150-BME	V03199

## 1.3 ACCESSORIES

Description	PRO 900
CW/HW mixed water tap ø 15x21 - Movable spout: 360°	V00561
CW/HW mixed water tap ø 15x21 - Movable spout: 180°	V01651
Cut-out for water tap	V01292

## I.4 ABOUT THE SYMBOLS IN THIS MANUAL




For the sake of clarity, this manual uses various pictograms and colour codes to indicate a specific point of care or particularly relevant information.

Pictogram	Meaning	Pictogram	Meaning
	General information		Operating feature
	Temperature-related information		Gas-related information
	Point of care		Electricity-related information
	Recommendation for use		Information related to recycling

### Associated colour codes

<b>*Pictogram*</b>	Advice on use or installation
<b>*Pictogram*</b>	A note or reminder about our equipment
<b>*Pictogram*</b>	An instruction aimed at protecting the user from minor injuries and the appliance from premature wear
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## I.5 LEGAL NOTICES CONCERNING THE RECYCLING OF ELECTRICAL AND ELECTRONIC COMPONENTS

 <b>INFORMATION</b>	<p><b>'Compliance with French Decree No. 2014-928 of 19 August 2014' Exclusively for France</b></p> <p>In accordance with Decree No. 2014-928 of 19 August 2014, concerning the disposal of waste electrical and electronic equipment, CHARVET ensures the organisation and financing of the collection and processing of professional WEEE placed on the market after 13/08/2005 or when replacing such equipment with equipment that is the equivalent or performs the same function. As such, the CHARVET company is a member of ECOLOGIC, an eco-organisation approved by the State. The equipment should be palletised and ready for loading in a place that is accessible by the carrier. Except in exceptional circumstances, the equipment shall in no case have been dismantled, even partially, otherwise CHARVET reserves the right to re-invoice the costs of processing and taking responsibility for the equipment.</p> <p><b>How WEEE is disposed of:</b></p> <p>For any request for collection, contact:</p> <ul style="list-style-type: none"> <li>➔ <a href="http://www.e-dechet.com">www.e-dechet.com</a></li> <li>➔ +33 (0) 1 30 57 79 14.</li> </ul> <p>All requests weighing less than 500 kg shall either be dropped off by the end user at a collection point or collected from the end user's premises, in which case the end user will be liable to pay the cost of such collection.</p> <div style="text-align: right;">   </div>
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## 2.1 GENERAL

The equipment must be installed in a room with adequate ventilation, equipped with an air extraction system, according to best practice and in accordance with the instructions in this manual and the regulations in force in the country of installation. Special attention must be paid to the fire prevention regulations of the establishment concerned. This appliance is an A-type and must not be connected to a flue gas pipe. Users should be trained in the use of this appliance once it has been installed.

## 2.2 HANDLING - POSITIONING

At delivery, leave the appliance on its wooden pallet during the handling process until the final installation. Unpack and check the appliance for damage upon receipt.

### INFORMATION

In case of damage, it is mandatory to detail it immediately on the delivery note; notify the carrier by registered mail with acknowledgement of receipt within 48 hours.

## 2.3 INSTALLATION

The appliance must be placed under an extraction hood.

If it 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 there is any doubt about the nature of the materials in the vicinity of the appliance, place it at a distance of 20 centimetres.

Remove all protective plastic wrap from the outer panels.

Fit the legs of the appliance (delivered in a separate box). Position the appliance at the chosen location.

## 2.4 ASSEMBLY AND SPECIAL PRECAUTIONS

### WARNING

**Fixed appliance:** Level the equipment. To do this, the height of each leg can be adjusted individually. Also ensure that the height of the worktop is 90 cm (900 mm).  
It is necessary to install the appliance in accordance with the EN1717 standard and the national regulations on water use in force in the country of installation.

## 2.5 DATA PLATE

Each appliance has a data plate.

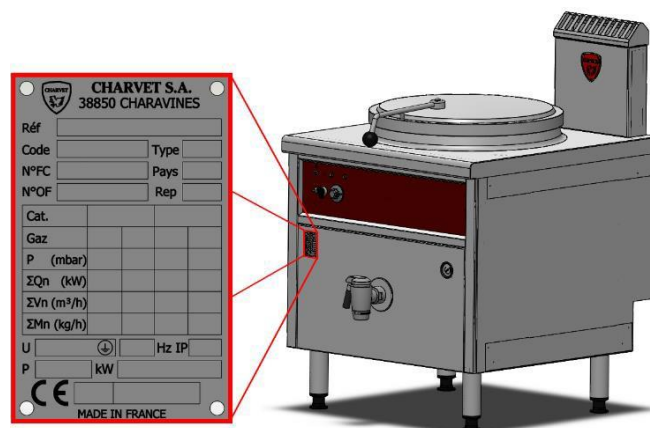


Fig. 1 – Data plate location

## 3.1 ELECTRICAL CONNECTION



The appliance must be earthed. It is dangerous to put the appliance into service without connecting it to earth. Use standard cable (245 IEC 57 or 245 IEC 66) or other cables with the same characteristics.

Ensure that the user's fixed installation has an all-pole circuit breaker with point gap in compliance with standard EN 60335-1, ensuring complete shutdown in overvoltage category III conditions.

The cable used to connect the appliance to the user's fixed power supply must have a cable section of at least 6mm<sup>2</sup>. In addition, in case of damage to the cable and in order to avoid any danger, a qualified person should proceed with its replacement.

Mobile appliances are equipped with an electric plug of the correct wattage. This plug must be accessible at all times.

### 3.1.1 Checks before connection

Before switching on the appliance, check:

- That the electrical voltage of the supply is compatible with the voltage and wattage of the appliance.
- That the cable is fixed correctly
- That the appliance's connections are tight.
- That the cable section is compatible with the voltage of the appliance.
- 

### 3.1.2 Electrical connection

Connect the appliance to the electric power supply using the terminal block, according to the instructions on the electrical cabinet label.

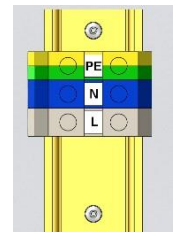


Fig. 2 – Connector

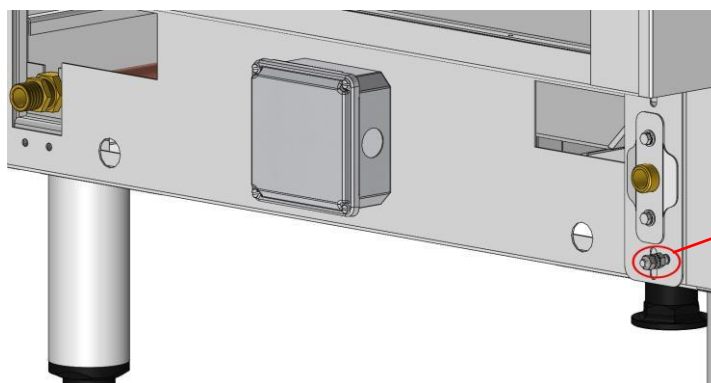


Fig. 3 – View of equipotential bonding

Equipotential bonding



**Equipotential bonding** The appliance must be included in an equipotential system the operation of which must be verified in accordance with regulations. Connect the equipotential terminal



IEC 60417-5021(2002-10) symbol

### 3.1.3 Checks after connection

After connection, check:

- That the appliance is correctly earthed
- The insulation of the electrical equipment

## 3.2 GAS CONNECTION

**CAUTION**

The installation must take place in a sufficiently ventilated room with mechanical extraction, according to best practice and in accordance with the regulations and standards in force in the country of installation and the instructions contained in this manual.

This appliance is an A-type and must not be connected to a flue gas pipe. The new air flow required to supply combustion is  $PN \times 2 \text{ m}^3/\text{h}/\text{kW}$ .

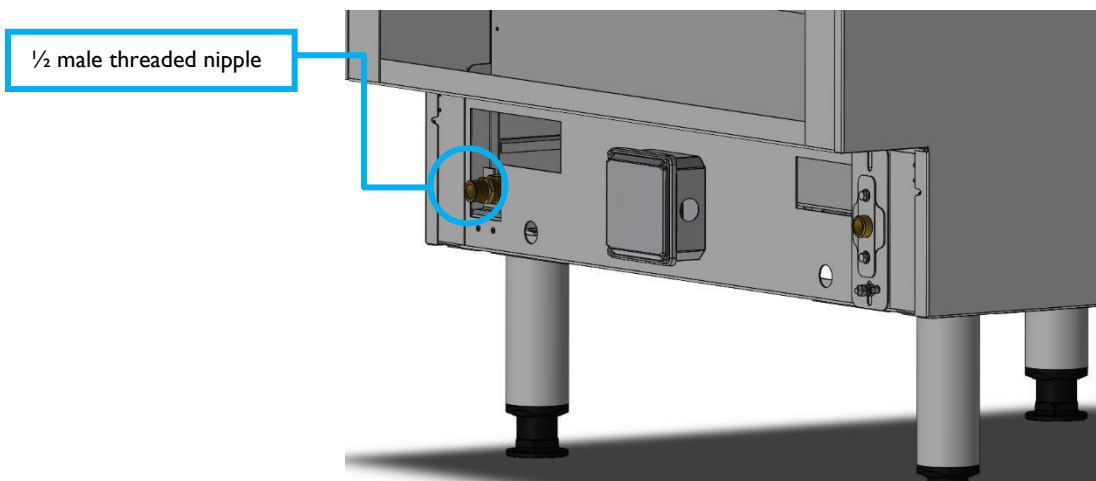
### 3.2.1 Checks before connection

Before connecting the appliance to the gas supply, you must check:

- That the mains are free of obstructions, and clean.
- That the gas supply is correctly sized so as to minimise pressure drops; the diameter depends on the power of the appliance, the gas pressure, the path travelled (length and number of elbows).
- The type of gas used. Check that the appliance is set for the type of gas delivered to the installation (type/pressure). This information is to be found on the label near the gas connection.

**NOTE:** The required new air flow is  $44\text{m}^3/\text{h}$  \_\_\_\_\_

### 3.2.2 Gas connection



**Fig. 4 – View of gas connection**

- **Fixed appliance:**

Connect the appliance at the 1/2" male threaded nipple at the back of the appliance (see Fig. 4) and then to the gas mains, inserting a block valve so that the appliance can be isolated from the rest of the installation.

**NOTE:** A hose connection is possible provided that the hose is approved according to the conditions of the country of installation and is suitable for the type of gas used. Its length must also not exceed 1.50m.

### 3.2.3 Checks after connection

After connecting, check the tightness of the gas circuit up to the supply connection.



## 4.1 CHANGING THE INJECTORS

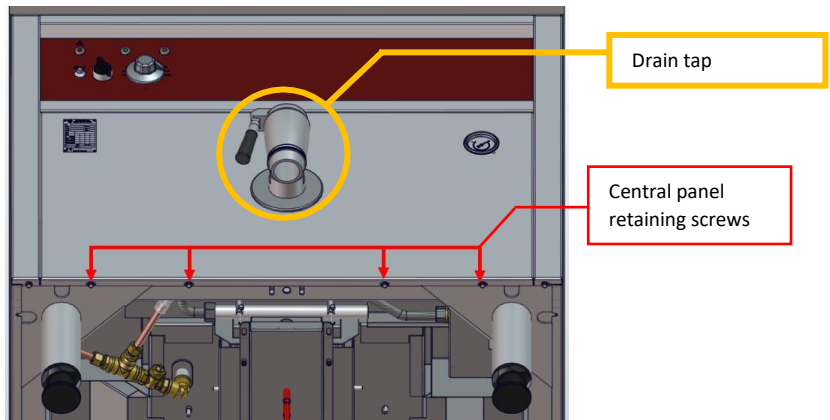


**CAUTION**

When replacing an injector, ensure that the gas circuit at the injector/injector holder connection point is sealed after replacement.

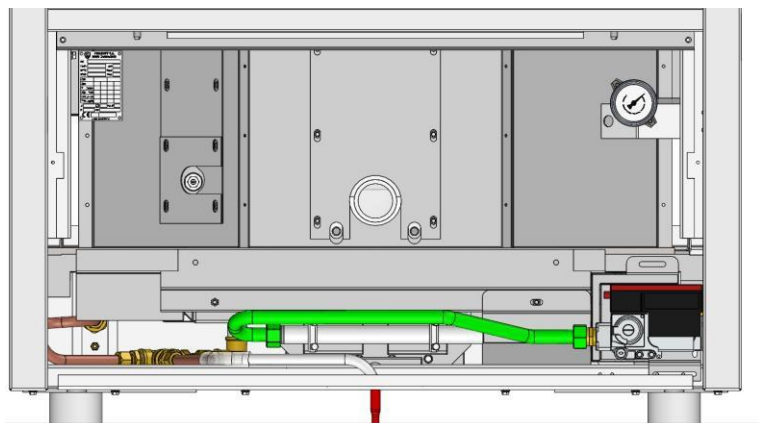
### Step No.1 – Remove the central panel

- a. Unscrew the 4 Central panel retaining screws
- b. Unscrew the drain tap
- c. Remove the central panel

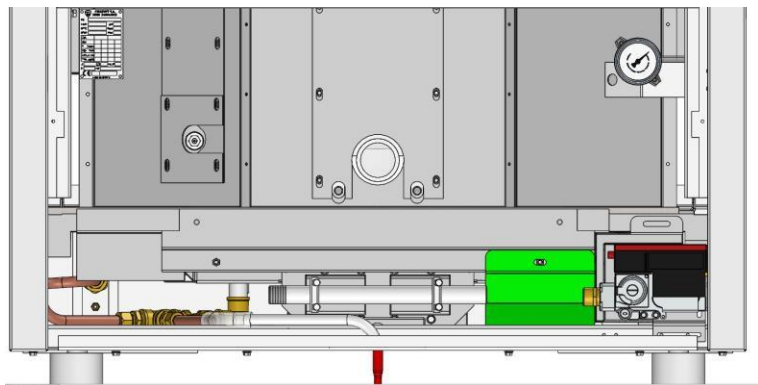


### Step No.2 – Remove the gas hose and the insulation

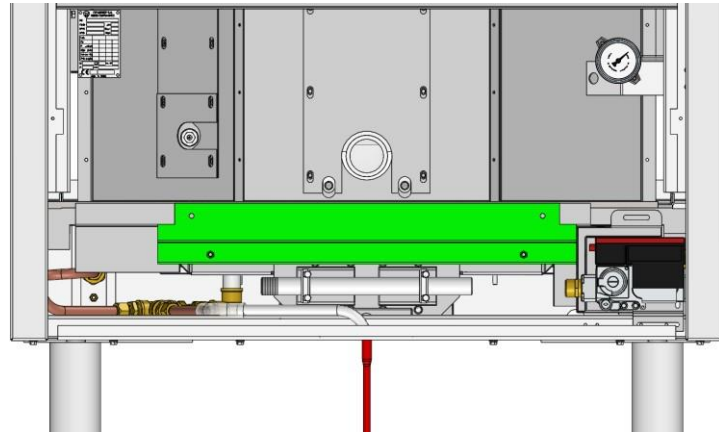
- a. Disconnect the gas supply pipe (see opposite).



- b. Unscrew the insulation plate (one screw, see opposite).



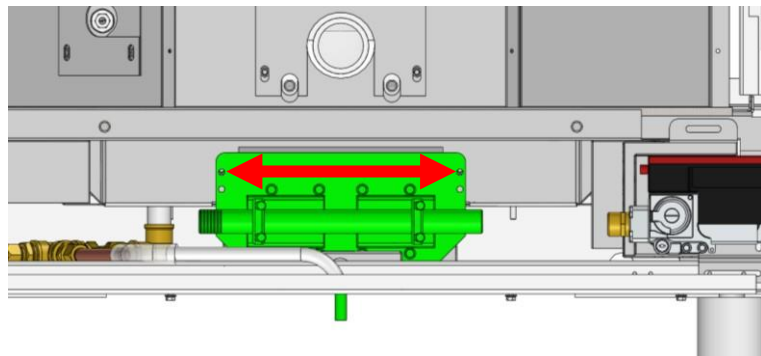
- c. Unscrew the insulation housing (two screws, see opposite).  
Remove the insulation.



### Step No.3 – Remove the burner kit

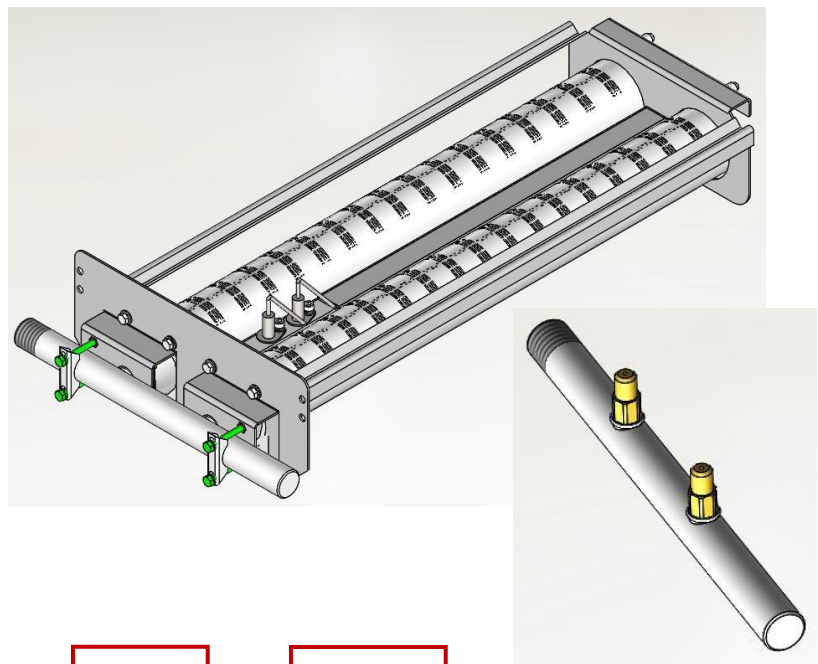
Unscrew the burner retaining screws (red arrows opposite).

**Caution:** The burner carcass has a second pair of holes below the mounting holes. Position the burner correctly when reassembling.

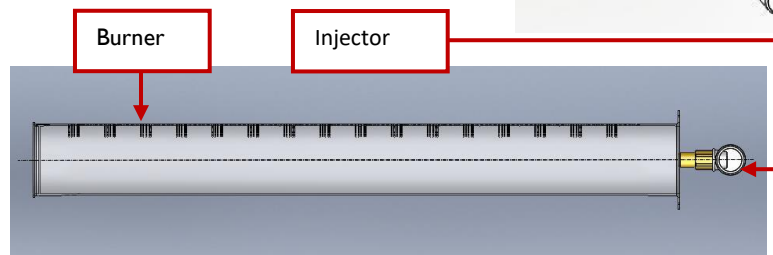


### Step No.4 – Access the injectors

Unscrew the 4 screws shown in the diagram opposite to gain access to the injectors.



**Note:** When reassembling the injection on the burner kit, make sure the injectors are oriented in the axis of the corresponding burners.



## 4.2 GAS SETTINGS TABLE

Setting	Gas type under nominal pressure	Item engraved on the injector	Air adjustment d (mm)	Nominal Heat output kW
1	G20-20	2 x 2.50	Max.	22
2	G25-25	2 x 2.50	Max.	22
3	G31-37	2 x 1.70	Max.	22
4	G31-50	2 x 1.55	Max.	22
5	G30-50	2 x 1.50	Max.	22

## 4.3 PRESSURE CHECK

- The gas valve is behind the central cover.
- Remove the cover, the valve is at bottom right.
- Input pressure check:
  - Remove the screw (Fig.5 – Item 4) and connect the pressure gauge to the pressure gauge outlet.
  - Turn on the appliance (at max. output)
  - Check your readings (Table 4.2)
  - Turn off the appliance, refit the screw.
- Adjusting the output pressure:
  - Remove the screw (Fig.5 – Item 3) and connect the pressure gauge to the pressure gauge outlet.
  - Turn on the appliance (at max. output)
  - Check your readings (Table 4.2)
  - To increase the pressure, turn the adjusting screw (Fig.5 – Item 2) clockwise.
  - Turn off the appliance, refit the screw (Fig.5 – Item 1).

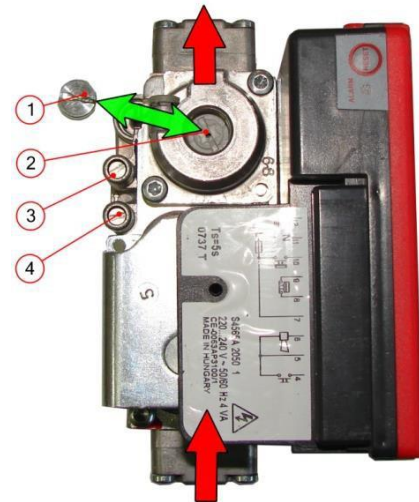
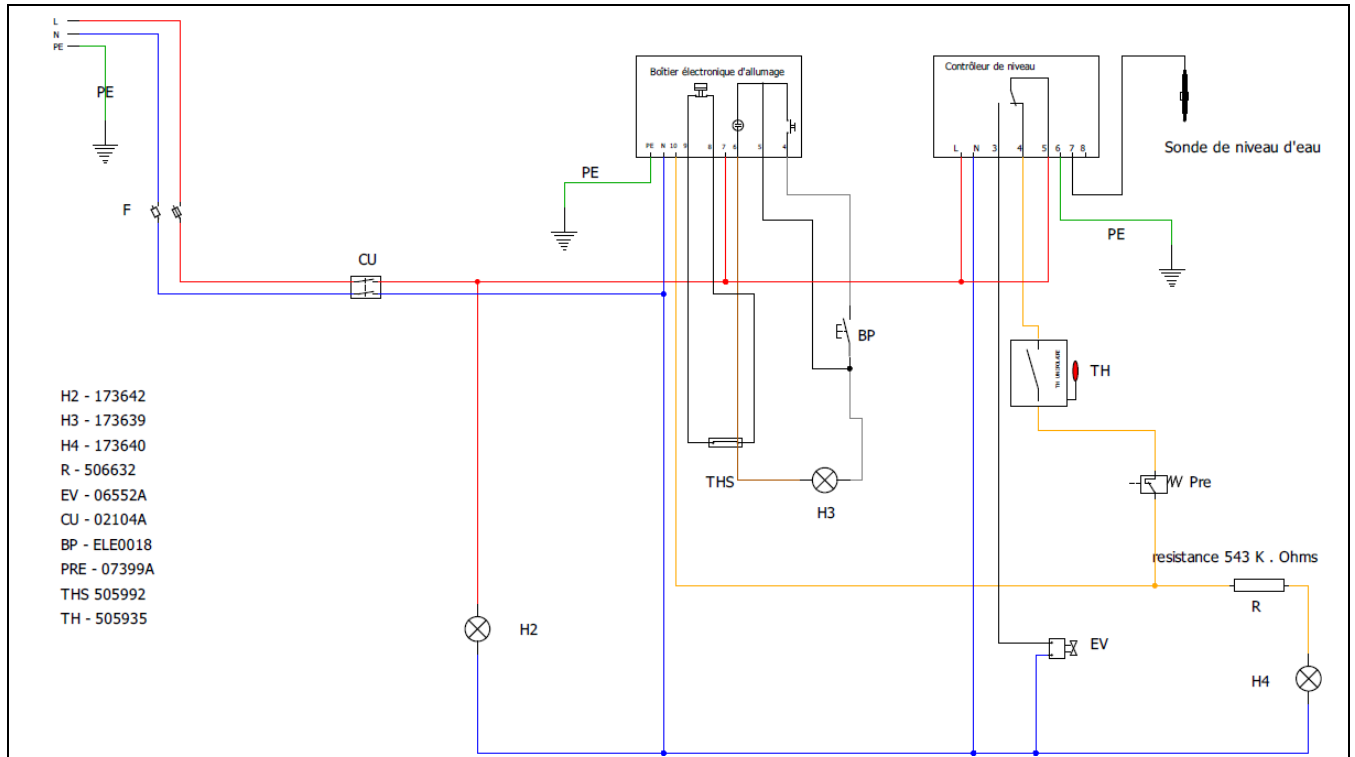


Fig. 5– View of ignition control box

## 5.1 WIRING DIAGRAM



Item	Code	Description
H2	173642	Green light
H3	173639	Red light
H4	173640	Amber light
R	506632	453 K $\Omega$ heating element
EV	06552 A	Solenoid valve
CU	02104 A	Switch
BP	ELE0018	Ignition push-button
PRE	07399 A	Pressure switch
THS	505992	Safety thermostat
TH	505935	Thermostat

## 5.2 GAS CIRCUIT DIAGRAM

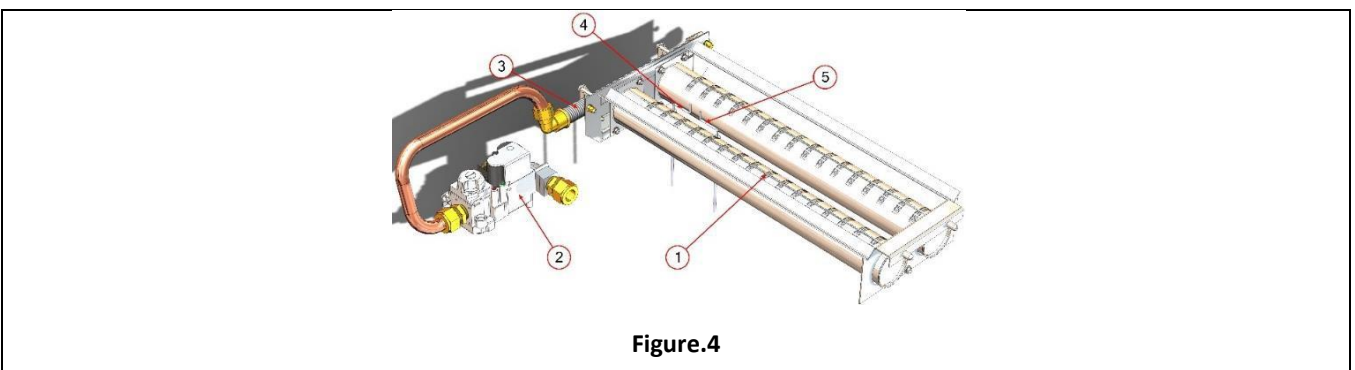
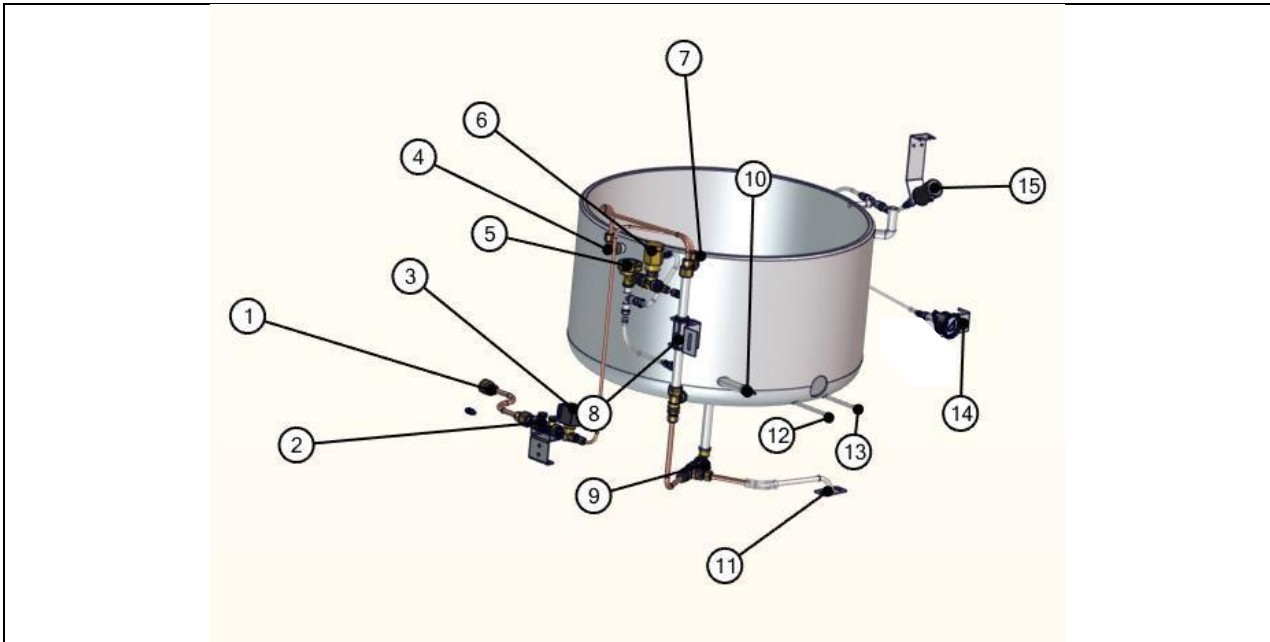


Figure.4

Item	Code	Description and main characteristic
01	506541	Micro-perforated burner
02	09122 A	Gas valve
03	173305	Boiling pan manifold
04	175188	Ignition spark plug
05	175188	Flame detection spark plug

## 5.3 WATER CIRCUIT DIAGRAM



Item	Description	Item	Description
1	Connection M1/2"	8	Non-return valve 0.5Bar
2	Anti-pollution valve.	9	Jacketed drain tap
3	Filling solenoid valve	10	Jacketed level probe
4	Jacketed outlet	11	Overflow drain
5	Gas eliminator	12	Thermostat 30°-110°
6	Vacuum valve housing	13	Safety thermostat 155°
7	Jacket filling	14	Pressure gauge
15	Pressure switch		

## 5.4 LIST OF EMERGENCY PARTS

Thermostat

230V meter

Switch



**Code  
505935**

Ignition  
push-button



**Code  
ELE0018**

Green light



**Code  
173642**

Pressure switch



**Code  
07399  
A**

HONEY  
WELL control  
box

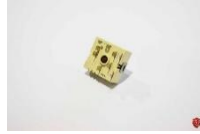


**Code  
177136**

Level probe



**Code  
02655 A**



**Code  
09099  
A**

Red light



**Code  
173639**

Electric  
control knob



**Code  
501146**

Burner



**Code  
506541**

Gas valve



**Code  
506222**

Water solenoid  
valve



**Code  
05405 A**



**Ref.  
02104  
A**

Amber light



**Code  
173640**

Pressure gauge



**Code 506627**

Ignition  
spark plug  
kit



**Code 175188**

Drain tap  
ø40-49



**Code  
03917  
A**

Level  
controller



**Code  
02681 A**



## USER MANUAL



### GAS-POWERED WATER- JACKETED BOILING PAN – 150 LITRES

Description	Code
PRO900-GI-MF-150-BME	V03199

#### CHARVET

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Charavines – France  
Tel.: +33 (0)4 76 06 64 22  
Fax: +33 (0)4 76 55 78 75  
Email: [info@charvet-sa.fr](mailto:info@charvet-sa.fr)  
Email: [sav@charvet-sa.fr](mailto:sav@charvet-sa.fr)

USER MANUAL PRO900-GI-MF-  
150-BME REVISION INDEX: C  
Date created: 06/06/2018  
Date of the revision:  
15/10/2018 15/10/2018







<b>SECTION 1</b>	<b>INTRODUCTION</b>	<b>PAGE 2</b>
1.1	Foreword	PAGE 2
1.2	Scope of application of the manual	PAGE 2
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<b>SECTION 2</b>	<b>CONTROL PANEL</b>	<b>PAGE 4</b>
<b>SECTION 3</b>	<b>STARTING UP</b>	<b>PAGE 5</b>
3.2	Warning	PAGE 5
3.3	Use	PAGE 5
3.4	Switching off	PAGE 5
<b>SECTION 4</b>	<b>CLEANING</b>	<b>PAGE 6</b>
4.1	Warnings	PAGE 6
4.2	Cleaning the outer surfaces	PAGE 6
4.3	Cleaning the pan	PAGE 6
4.4	Cleaning the burner	PAGE 6
4.5	List of emergency parts	PAGE 7




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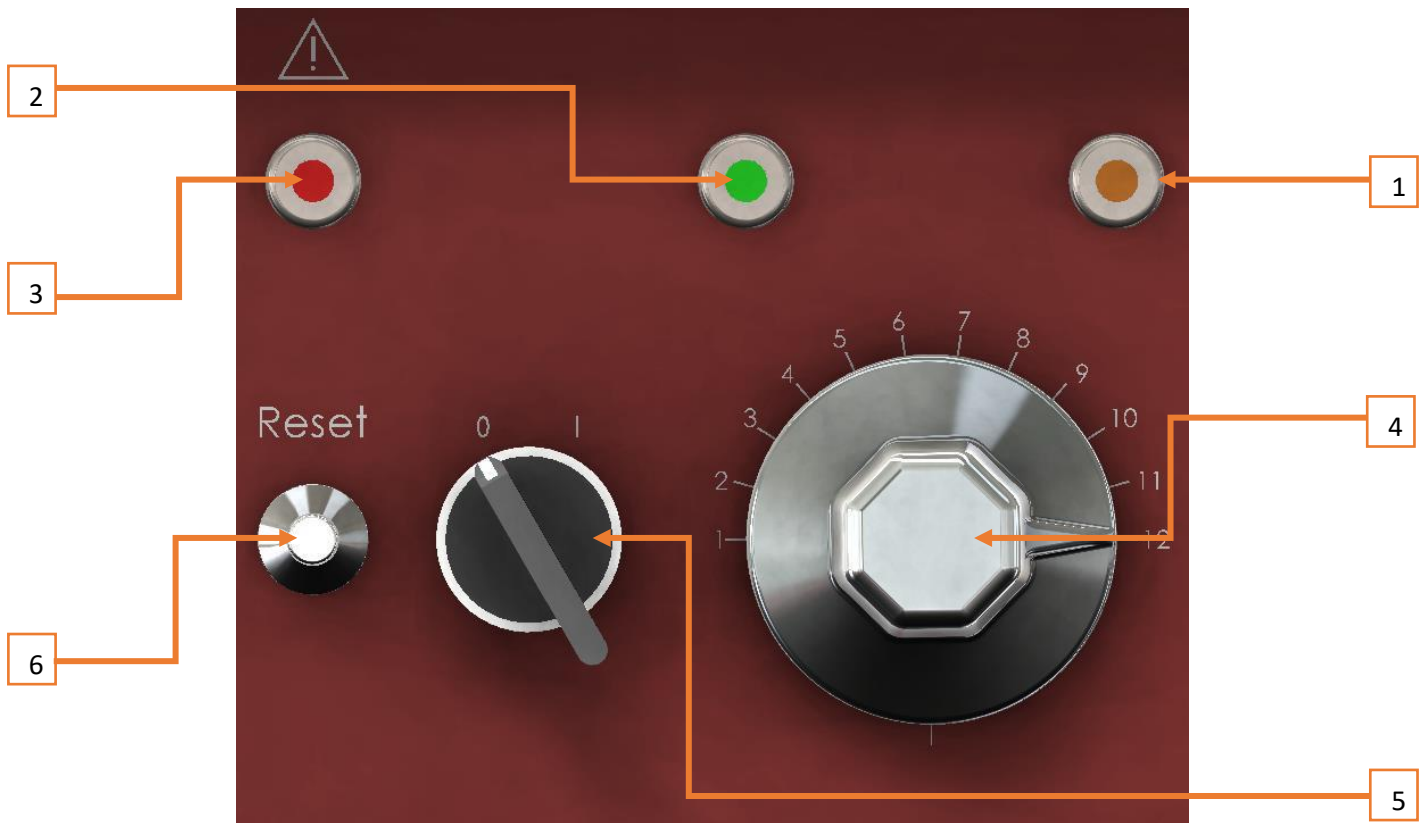


Fig. 1 – Control panel

Item	Description	Item	Description
1	Heating indicator light	4	Energy meter
2	Burner ignition indicator light	5	On/Off switch
3	'Gas valve shut-off' fault warning light	6	Gas valve reset button

## 3.1 WARNINGS



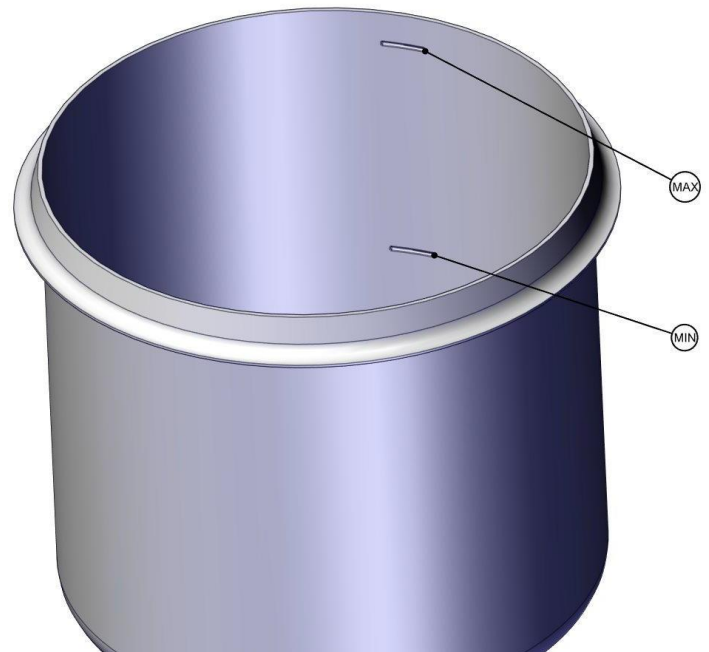
The boiling pan should not be used for deep frying (Standard EN 203-2-8). Any abnormal use of this appliance could have consequences on its operation, but also on the safety of property and persons. In such a case, Charvet cannot be held responsible.



Prolonged use of the pan when empty and without supervision may damage the appliance. When opening the lid during 'wet' cooking, be careful of steam escaping as you pass your arm over the pan because there is a risk of burning. When draining the pan, keep well clear of the area in which cooked products are being transferred. There is a risk of scalding from splashes. The walls of the pan, the lid and the drain tap body may be very hot after intense or prolonged use. Always hold the drain tap and the lid using the handles provided.

## 3.2 USE


- Fill the pan (between min. and max. levels, see fig. opposite).
- Move the switch to position I.
- Turn the power selector to the desired temperature.
- The green indicator light comes on, indicating that the burner is in operation.
- The burner starts to heat the pan, the amber light indicates that heating is in progress.
- When the desired power is reached, the amber light goes off.
- After cooking, empty the contents of the pan (liquids can be collected from the tap on the front of the appliance, and solids from above)
- Switch off the appliance (switch to 0).
- At the end of the day, shut off the gas valve and the electric power supply.




## 3.3 SWITCHING OFF

Put the control knob/s and control components into the 'Off' or '0' position. At the end of the day, shut off the electric power supply.

## 4.1 WARNINGS

 <b>INFORMATION</b>	<p>For best results, have your equipment serviced and cleaned regularly by a qualified installer. Contact the installer to replace any faulty electric control components before further use. The manufacturer and the installer cannot be held liable if the user does not make a request for them to intervene in case of malfunction. Some parts of this appliance are factory-sealed by the manufacturer. In the event of a malfunction, call a qualified installer.</p>
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 <b>CAUTION</b>	<p>Before any cleaning or maintenance work:</p> <ul style="list-style-type: none"><li>- Ensure that the appliance's gas supply has been cut off</li><li>- Ensure that the appliance's electricity supply has been cut off</li><li>- Ensure that the surfaces or parts you are working on are at room temperature. The appliance must not be cleaned using water jets under any circumstances</li></ul>
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## 4.2 CLEANING THE OUTER SURFACES

- Switch off the appliance. After each service and before each cleaning operation, we strongly advise you to disconnect the appliance from the mains.
- Wash with a sponge in soapy water (or any other neutral cleaning product).
- After each cleaning, rub with an oily rag.
- Do not use bleach or any acid, even if heavily diluted.

## 4.3 CLEANING THE PAN

This cleaning can be carried out by soaking, washing with water and a dishwasher cleaning product.

When salting foods with coarse salt for dry or semi-wet cooking in the pan, thoroughly rinse the bottom of the pan with plenty of water to remove any remaining salt, thereby avoiding the risk of pitting the stainless steel.

## 4.4 CLEANING THE BURNER

Please call your installer for any work on the burner. You must not clean the burner with water.

## 4.5 LIST OF EMERGENCY PARTS



Thermostat

**Ref.  
505935**



Ignition  
push-button

**Code  
ELE0018**



Green light

**Code  
173642**



Pressure switch

**Code  
07399 A**

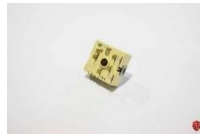
HONEY  
WELL control  
box

**Code  
177136**



Level probe

**Code  
02655 A**



230V meter

**Code  
09099  
A**



Red light

**Code  
173639**



Electric  
control  
knob

**Code  
501146**



Burner

**Code  
506541**



Gas valve

**Code  
506222**

Water solenoid  
valve

**Code  
05405 A**



Switch

**Code  
02104  
A**



Amber light

**Code  
173640**



Pressure gauge

**Code 506627**



Ignition  
spark plug  
kit

**Code 175188**



Drain tap  
ø40-49

**Code  
03917 A**

Level  
controller

**Code  
02681 A**

