



PRO900

AUTHENTIC COOKING EQUIPMENT

ELECTRIC WATER-JACKETED BOILING PAN

INSTALLATION MANUAL



INSTALLATION MANUAL

FR_PRO900_PRO900-E1MF150BME/C NM-REV.
B
Written by JGD on 04/03/20
Revised by JGD on 19/10/20

APPLICABLE TO:

V03277				

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REVISION HISTORY

Revision index	Author of the revision	Date of the revision	Nature of the revision
A	JGD	23/09/2020	Creation



INTRODUCTION

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, and 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.

2. USEFUL CONTACT DETAILS

For any information, or sales request:

✉ info@charvet.fr

☎ +33 (0)4 76 06 64 22

For all technical assistance requests, contact our After-sales service department:

✉ sav@charvet-sa.fr

☎ +33 (0)4 76 06 64 22

3. WARRANTY



INFORMATION

The warranty is part of the sale contract. For any installation or work carried out under the warranty, contact an authorised dealer. In addition, we would like to remind you that the CHARVET warranty does not cover damage caused by faulty installation, misuse or inadequate maintenance. Please read this manual in full.

4. RESTRICTIONS ON USE



INFORMATION

This appliance should only be used by qualified persons. The installer should provide training on how to use the appliance once it has been installed. After the user training, the User Manual (below) must be passed to the final user for their records.

CHARVET equipment should not be used by untrained personnel unless they are under the supervision of a person who is liable and can guarantee their safety.

5. EQUIPMENT DISPOSAL



INFORMATION

Exclusively for France:

In accordance with Decree No. 2014-928 of 19 August 2014, concerning the disposal of waste and electrical and electronic equipment, the Paul CHARVET company is responsible for the organisation and financing of the collection and processing of professional EEE placed on the market from 13.08.2005. As such, the CHARVET company is a member of ECOLOGIC, an eco-organisation approved by the state.

How WEEE is disposed of:

At the end of its life, the equipment must be palletised and made available to the carrier in an accessible place. Except in exceptional circumstances, the equipment shall not have been dismantled, even partially. Otherwise, the CHARVET company reserves the right to re-invoice the costs of processing and taking responsibility for the equipment.

In addition, 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.

For any request for collection:

www.e-dechet.com

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INSTALLATION

1. GENERAL POINTS

The installation must be performed by a certified installer, who will install the equipment according to best practice, and in compliance with the instructions in this manual and local regulations.

During installation, special attention should be paid to the fire prevention regulations of the establishment concerned.

2. HANDLING

For all handling, leave the appliance on its wooden pallet during the handling process until the final installation.

Unpack and check the appliance for damage upon receipt.



WARNING

In the event of damage:

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

3. INSTALLATION

The appliance must be placed under a functioning extraction hood. If the appliance 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 minimum distance of 20 centimetres from the wall.

4. ASSEMBLY AND SPECIAL PRECAUTIONS

It is mandatory that the appliance be levelled before any use. To set the level it is possible to adjust each leg (or bolt if using a concrete plinth) individually.

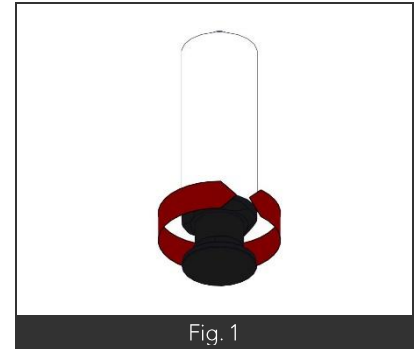


Fig. 1

5. DATA PLATE

Each appliance has a data plate. Its location varies according to the configuration of the appliance:

- On this model of the boiling pan, it is located at the front of the appliance.



Fig. 2

ELECTRICAL CONNECTION



WARNING

Instructions for the electrical connection of the appliance:

- Do not work on live cables.
- The appliance must be earthed.
- Use 245 IEC 57 or 245 IEC 66 standard cables (or other cables with similar characteristics).
- Ensure that the user's fixed installation has an all-pole circuit breaker with point gap in compliance with standard EN 60335 – I.
- If the cable is damaged, a qualified person must be called in to replace it.

In the case of a mobile appliance connected to the network via an electric socket:

- The size of the electric plug depends on the power of the appliance. If necessary, replace it with a socket with the same characteristics.
- During use, the electric socket must remain accessible at all times.

1. BEFORE ELECTRICAL CONNECTION

Before making the electrical connection of the appliance, you must:

- Locate the position of the electrical junction box and the equipotential bonding terminal.
- Check that the appliance's power supply is switched off while connecting the appliance.
- Ensure that the electrical voltage of the supply is compatible with the voltage and power required by the appliance.

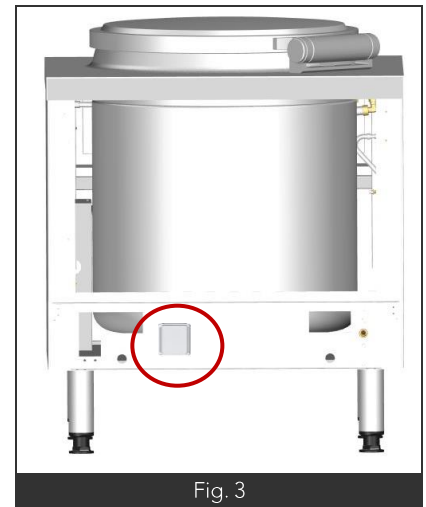


Fig. 3

2. ELECTRICAL CONNECTION

Connect the installation's fixed electrical supply to the appliance's electrical circuit via the junction box.

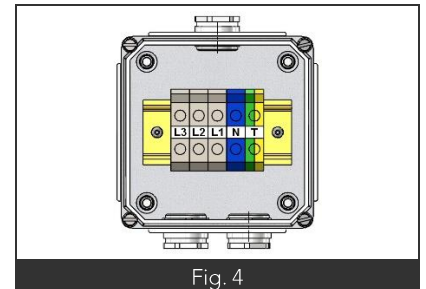


Fig. 4

Equipotential bonding:

The appliance must be included in an equipotential system, the operation of which must be verified in accordance with the regulations in force in the country of installation. Connect the equipotential terminal, the location of which is marked by the standard symbol IEC60417-502 2002-10 (shown in illustration).

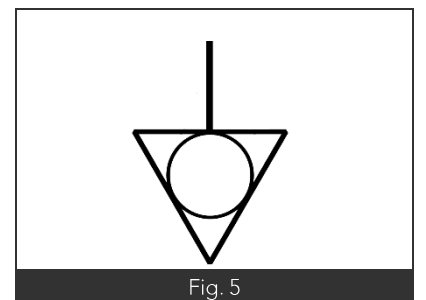


Fig. 5

WATER CONNECTION

1. HW/CW MIXED WATER TAP OPTION

If the appliance is equipped with a hot water/cold water mixer tap option, the connection is made at the back of the appliance using the fittings mounted on the right-hand side, in the recess in the back of the casing.

The hot water connector is indicated by a red dot, while the cold water connector is indicated by a blue dot.

2. WATER JACKET CONNECTION

- Fig. 6 Item 1 Water jacket connection

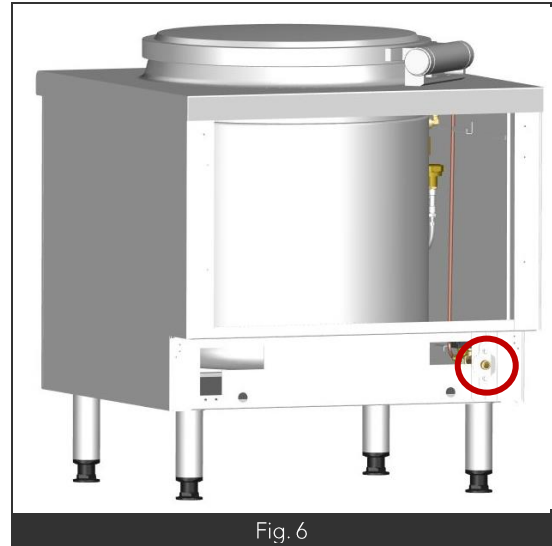


Fig. 6

3. DRAIN TAP

A drain tap is fitted to the front of the appliance. This is used to easily empty the liquid from the tank when the cooking is complete. By default, the appliance is designed so that the contents of the tank are drained directly into a gutter. The dimensions and location of this gutter in relation to the appliance are indicated on the plumbing drawing available in the appliance's datasheet.

STARTING UP

1. GENERAL POINTS

Once the appliance has been installed, remove all protective plastic wrapping, then test each function of the appliance; please refer to the paragraph on 'Normal use' in this user manual.

If the test is successful, the appliance should be fully cleaned, in accordance with the instructions given in the paragraph on 'Cleaning' in the user manual, before delivery from the site to the end customer.

When delivering from the site to the user, the user or person in charge should be given the user manual for each appliance.

2. CONTROL PANEL

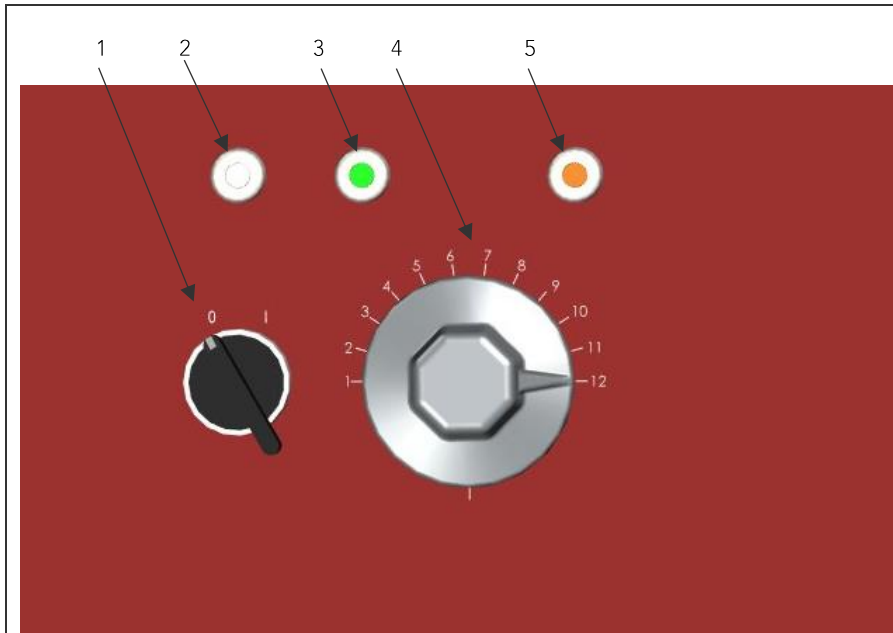


Fig. 7

Nomenclature	
Item	Description
1	On/Off switch
2	White 'power on' indicator light.
3	Green 'in operation' indicator light
4	Thermostat knob
5	Amber 'heating' indicator light

3. NORMAL USE

- With the appliance switched on, the white light is on (Fig. 8 Item 2).
- Turn the switch (Fig. 8 Item 1) to the On position '1', the green 'in operation' indicator light (Fig. 8 Item 3) comes on.
- Turn the thermostat control knob (Fig. 8 Item 4) to the desired position, the amber 'heating' indicator light (Fig. 8 Item 5) comes on and then turns off when the required temperature is reached.



WARNING

The water jacket is automatically filled by the filling solenoid valve, which is controlled by the level card.

Once the water jacket has been filled, you can start the heating.

The pressure gauge should rise to 0.3 bar when regulating.

4. SWITCHING OFF

- Turn the control knobs to the '0' Off position.
- At the end of the day, shut off the electric power supply.



OUVERTURE TOTALE DU COUVERCLE AVANT DE BASCULER LA CUVE.



FULL OPENING OF THE LID PRIOR TO THE TILTING THE TANK.

Charvet cannot be held liable for any damage caused by misuse.

ADJUSTMENTS – MAINTENANCE



WARNING

Instructions for maintenance operations on an electric appliance or for implementing electric power:

Before any work:

- Disconnect the appliance from its power supply at the circuit breaker.
- Use a suitable checking device to check that there is no voltage present.

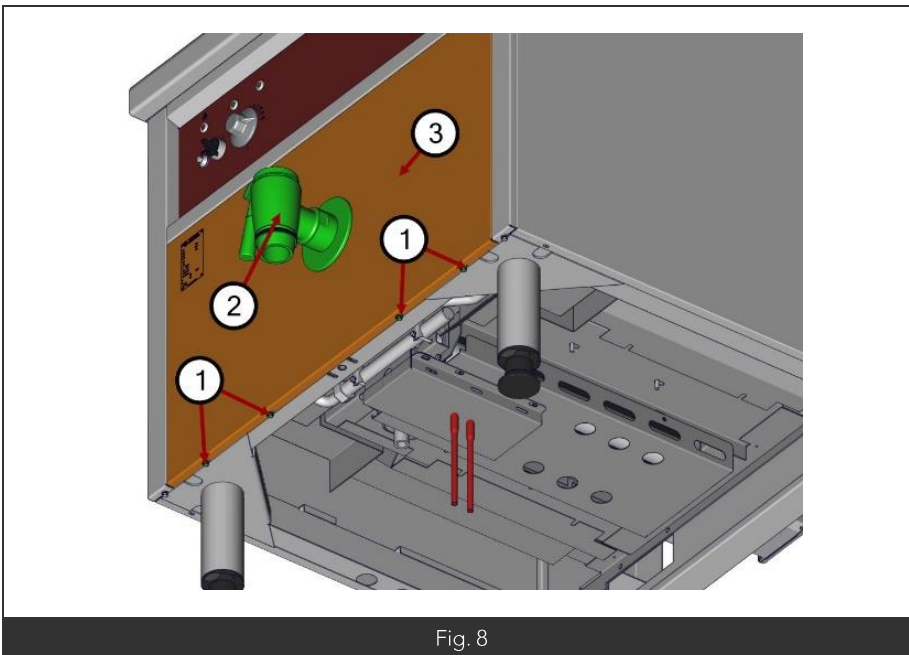
The rules laid down in the 'Electrical Connection' section remain applicable. In addition, all the maintenance operations listed below must be performed after the appliance has been powered off. Unless explicitly stated otherwise, tests following the replacement of a part must only be carried out once the appliance has been reassembled in its factory configuration.

1. PERIODIC CHECKS

Under normal conditions of use, it is recommended to service the appliance once a year. In addition to checking the general operation of the appliance, this service should, include as a minimum:

- A check that the electrical and mechanical elements are in good working order.
- A check of the appearance of cables and connections (appearance, tightness).
- A check of the regulatory and safety components.

2. CONTROL PANEL REMOVAL



To remove the control panel, please follow the procedure below:

- Unscrew the 4 screws (Fig.8 – Item 1) located under the front stainless steel trim panel (Fig. 8 Item 3).
- Unscrew the drain tap (Fig.8 – Item 2), and the trim panel.
- Push the front trim panel downwards to release it from the frame.

3. DISMANTLING THE PORTABLE IMMERSION HEATERS

To access the portable immersion heaters, remove the front end panel then proceed in the following order:

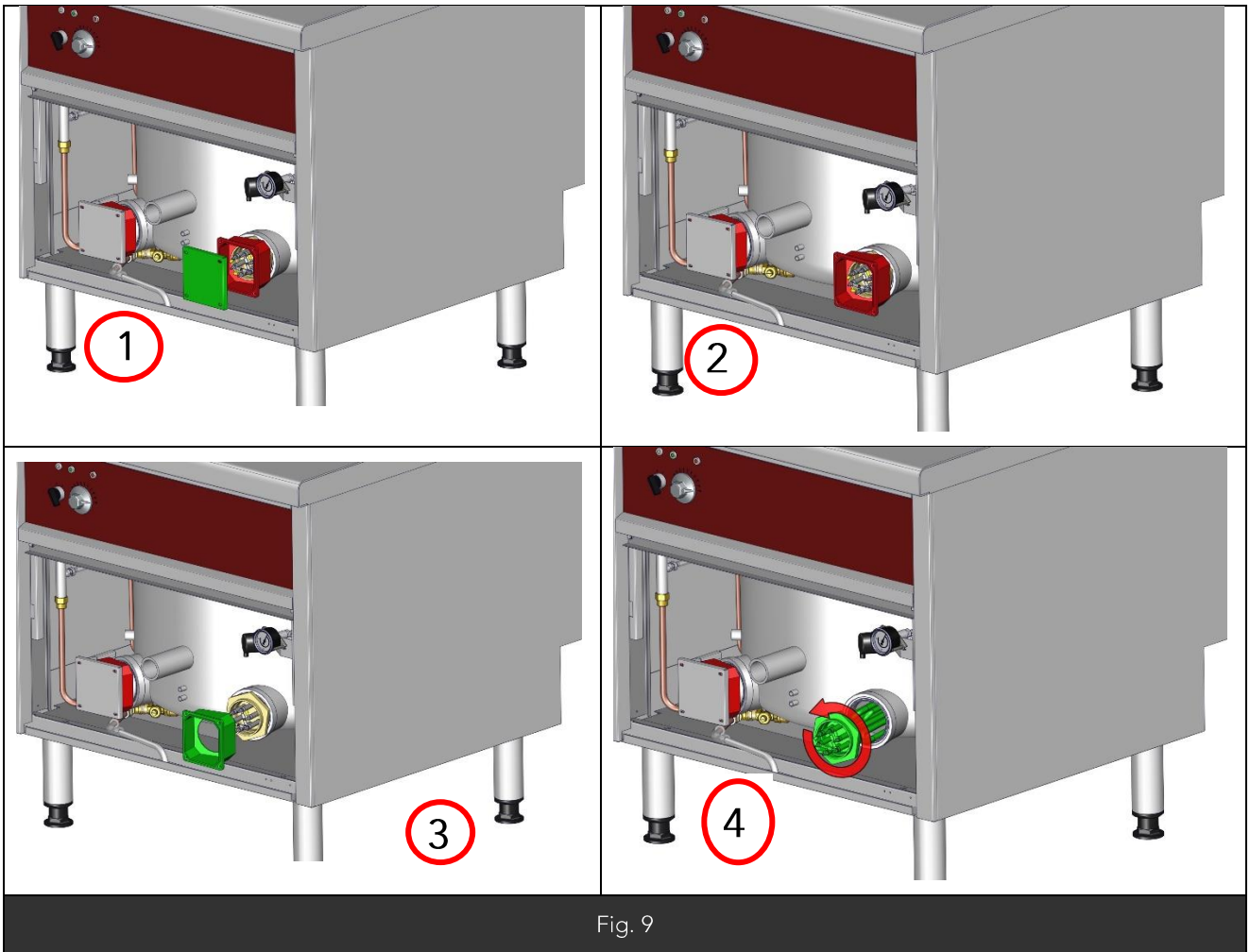
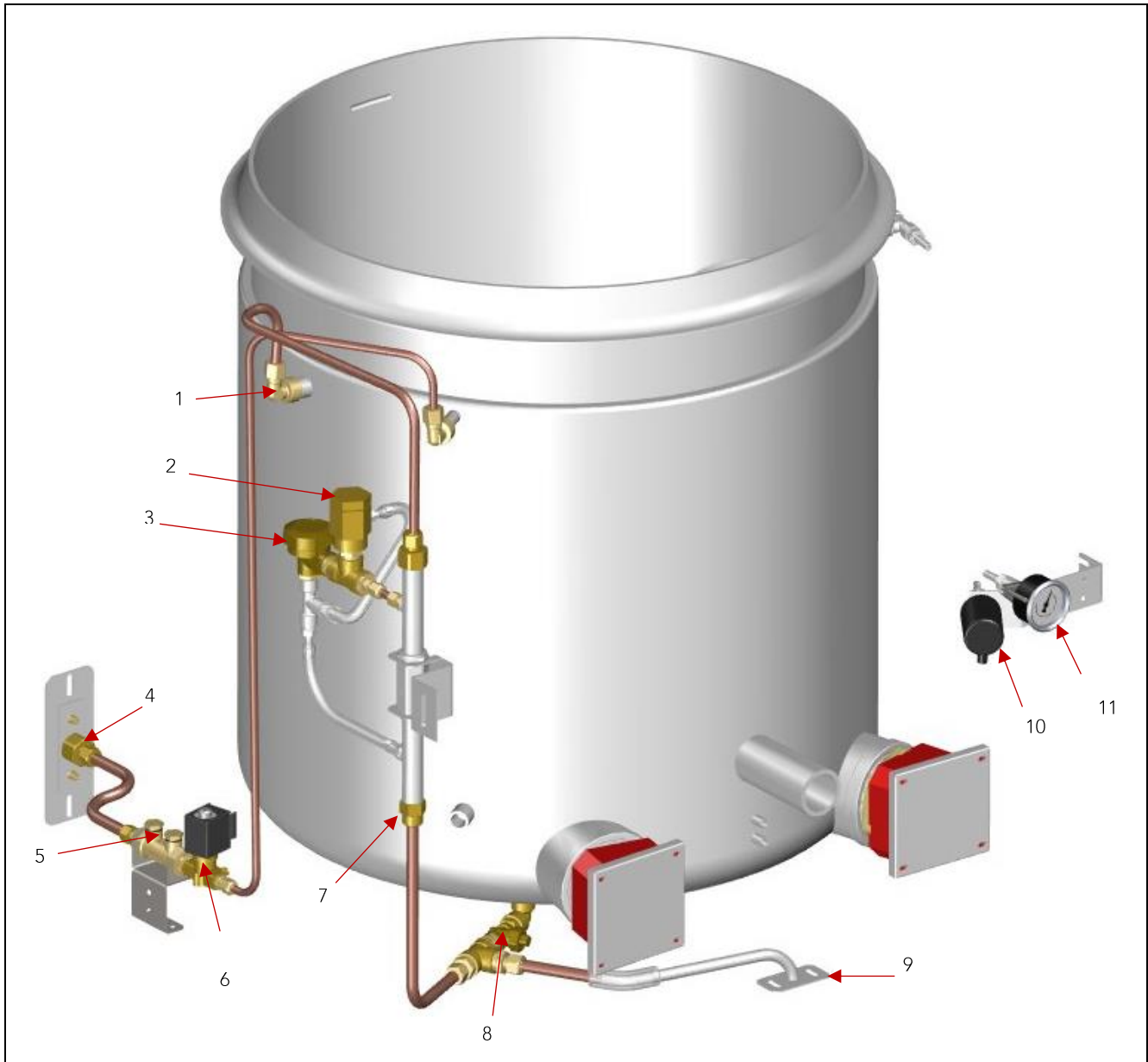


Fig. 9

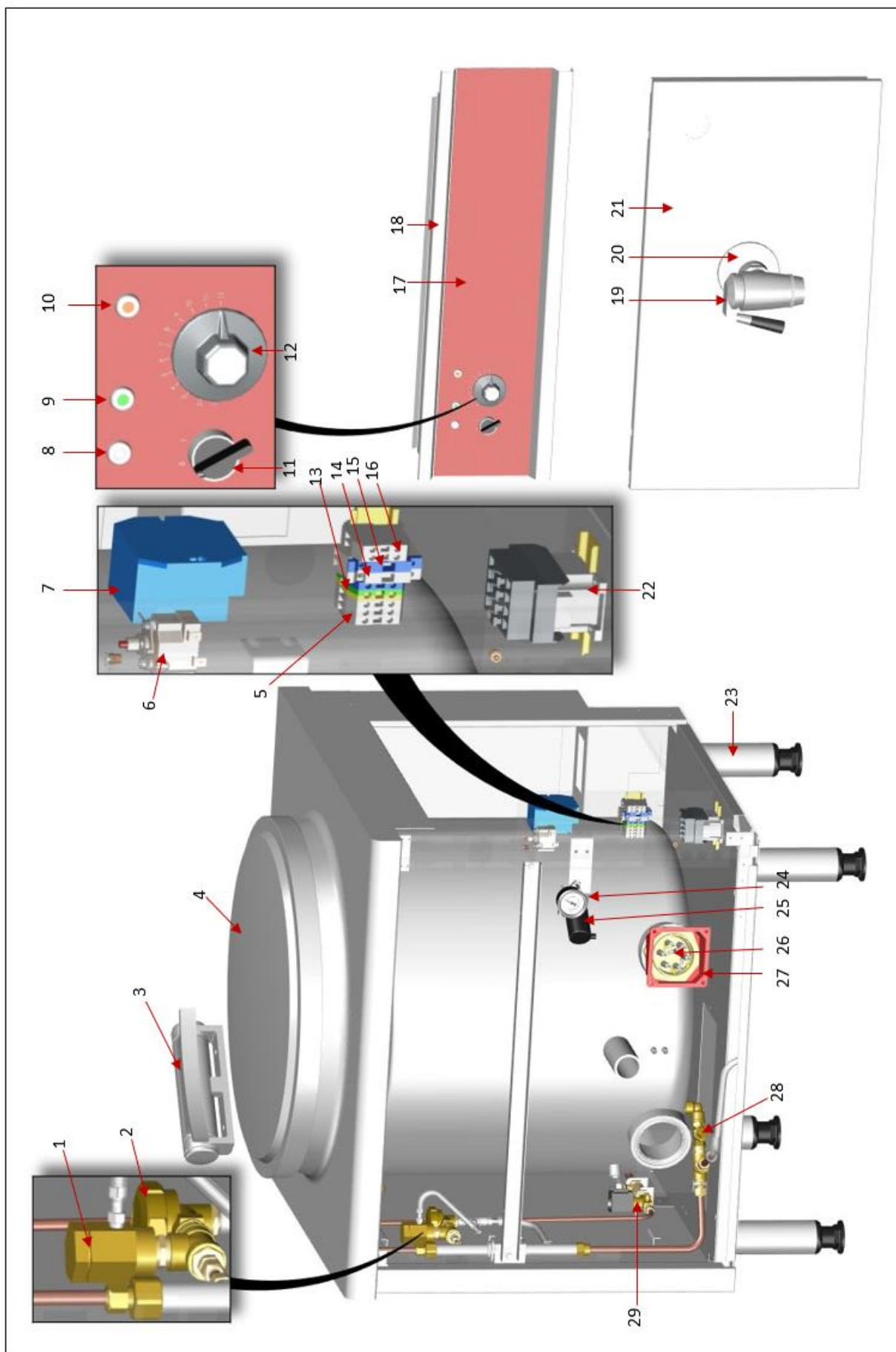
- Remove the 4 screws from the front stainless steel cover of the portable immersion heater (Fig. 10 Item 1).
- Remove the ring and the red protective housing from the portable immersion heater (Fig.9 Items 2 and 3).
- Unscrew the portable immersion heater using a special wrench to remove it from its housing and pull it towards you (Fig. 9 Item 4).

4. WATER CIRCUIT DIAGRAM



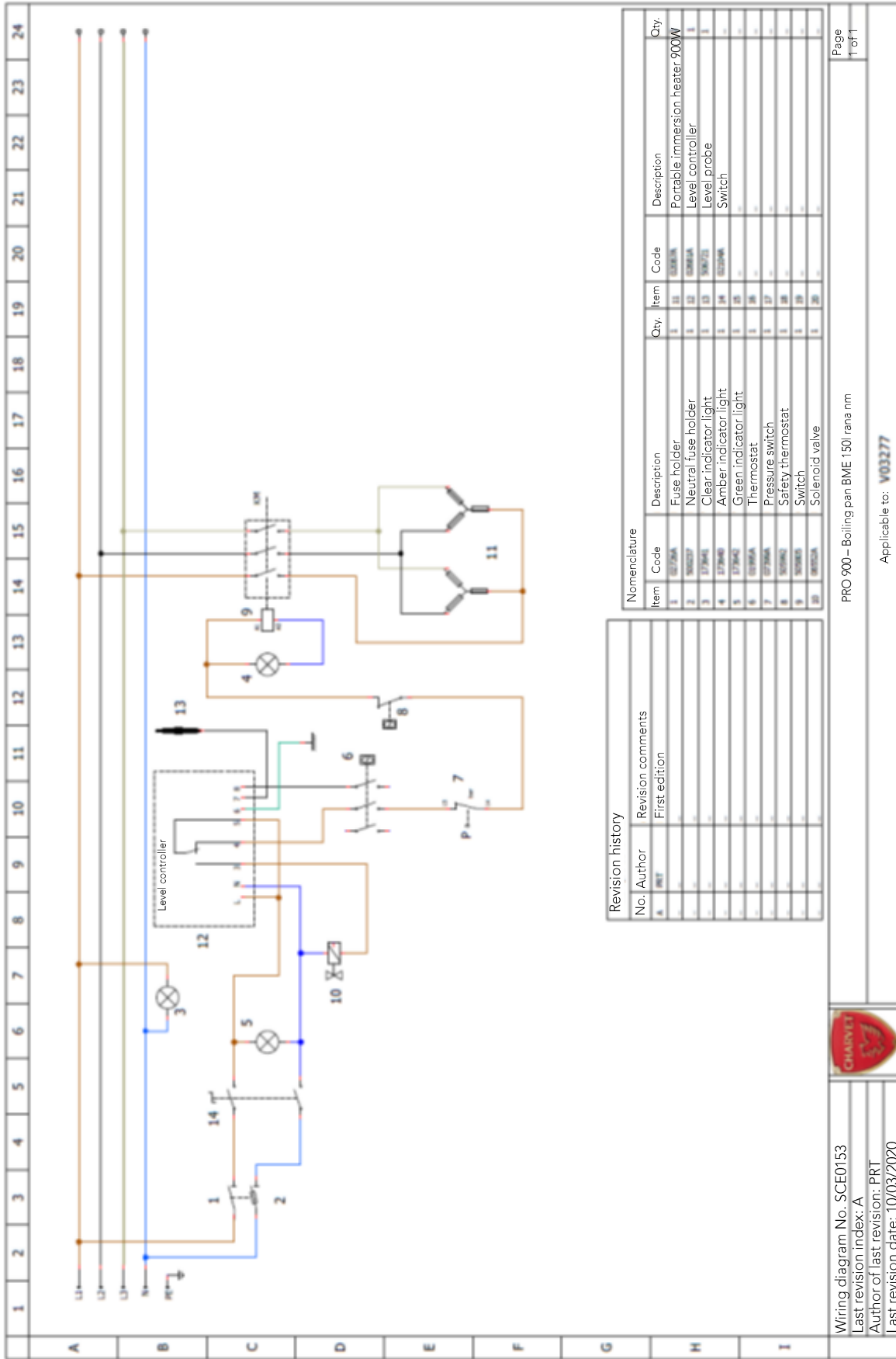
Item	Code	Description
01	GAZ0114	Elbow connector 1/2
02	506711	Vacuum valve housing
03	506710	Air eliminator
04	505044	KSA G4
05	03935 A	Anti-pollution valve
06	06552 A	Water solenoid valve
07	01819 A	MF 15x21 nipple
08	03895 A	Ball valve
09	177105	Overflow drain plate
10	07399 A	Pressure switch
11	506627	Pressure gauge

EXPLODED VIEW



Item	Code	Description
01	506711	Air eliminator
02	506710	Vacuum valve housing
03	506603	Lid hinge
04	506643	Boiling pan lid 150L BM
05	02466 A	4M/M2 terminal
06	506429	Safety thermostat
07	02681 A	Water level controller
08	173641	White light 230v
09	173642	Green light 230v
10	173640	Amber light 230v
11	02104 A	On/Off switch
12	501146 07879 A	Electric control knob Control knob insert
13	07690 A	Earth terminal 4 ²
14	02726 A	Fuse holder terminal
15	500237	Grey/blue neutral junction block 4mm ²
16	02466 A	4M/M2 terminal
17	506219	Email:
18	177065	Stainless steel control cover
19	03917 A	Drain tap ø40-49
20	04147 A	Drain valve escutcheon
21	177078	Central cover
22	505805	Contacteur 50A
23	F11290	Legs height 180/200mm
24	506627	Pressure gauge
25	07399 A	Pressure switch
26	02087 A	Portable immersion heater 9kW
27	09028 A	Red portable immersion heater housing
28	03895 A	Ball valve
29	06552 A	Water solenoid valve

WIRING DIAGRAM



No.	Author	Revision comments
1	AMEF	First edition

Nomenclature							
Item	Code	Description	Qty.	Item	Code	Description	Qty.
1	0270AA	Fuse holder	1	11	0280AA	Portable immersion heater-900W	1
2	500277	Neutral fuse holder	1	12	0280AA	Level controller	1
3	17304L	Clear indicator light	1	13	500773	Level probe	1
4	17304D	Amber indicator light	1	14	0220AA	Switch	1
5	17304C	Green indicator light	1	15	-	-	-
6	0270AA	Thermostat	1	16	-	-	-
7	0270AA	Pressure switch	1	17	-	-	-
8	020042	Safety thermostat	1	18	-	-	-
9	300045	Switch	1	19	-	-	-
10	0270AA	Solenoid valve	1	20	-	-	-

Wiring diagram No. SCE0153
 Last revision index: A
 Author of last revision: PRT
 Last revision date: 10/03/2020

PRO 900 – Boiling pan BME 150l rana nm
 Applicable to: **V03277**

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SPARE PARTS

Code	Description	Photo
02681 A	Water level controller	
506721	Level probe	
506627	Pressure gauge	
506710	Air eliminator	
506564	Non-return valve	
173642	Green indicator light 230v	
173640	Amber indicator light 230v	
173641	White indicator light 230v	
02050 A	Gasket for portable immersion heater	
506603	Lid hinge	

Code	Description	Photo
501146 07879 A	Electric control knob Control knob insert	
06552 A	Water solenoid valve	
505805	Contacteur	
07399 A	Pressure switch	
506711	Vacuum valve housing	
02104 A	On/Off switch	
04035 A	Smooth ball	
02087 A	Portable immersion heater 9kW	
03917 A	Drain tap ø40-49	
504953	Gasket for drain tap ø40-49	



PRO900

ELECTRIC WATER-JACKETED BOILING PAN

USER MANUAL



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FR_PRO900_PRO900-E1MF150BME/C
NM_REV. B
Written by JGD on 04/03/20
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How WEEE is disposed of:

At the end of its life, the equipment must be palletised and made available to the carrier in an accessible place. Except in exceptional circumstances, the equipment shall not have been dismantled, even partially. Otherwise, the CHARVET company reserves the right to re-invoice the costs of processing and taking responsibility for the equipment.

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For any request for collection:

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1. WARNINGS

 WARNING	<p>This appliance is intended for professional use, and should therefore be used by qualified personnel, as intended and as instructed in this document.</p> <p>Any abnormal use of this equipment could have consequences on its operation, but also on the safety of property and persons.</p> <p>This appliance is equipped with several safety devices. In case of malfunction, please cut off all supplies (electricity, gas, water, etc.) and contact a qualified installer for repair.</p> <ul style="list-style-type: none"> • Do not attempt to repair a defective appliance by yourself, in case of malfunction, please isolate the device (cut off its supplies, and limit access to the appliance to authorised persons only), pending the work by the installer. • Do not use an appliance when it has gone into safe mode, do not attempt to bypass its safety device(s). • This equipment should be revised at least once a year by a qualified installer. • Some parts of this appliance are protected by the manufacturer, in case of a fault, contact the installer for replacement or repair. <p>Neither the CHARVET company nor the installation company shall be liable for damage and/or injuries resulting from improper maintenance, misuse, or unauthorised modification of this appliance.</p>
 WARNING	<ul style="list-style-type: none"> • Wait until the tank has cooled down before cleaning it – RISK OF THERMAL SHOCK
 WARNING	<ul style="list-style-type: none"> • Switch off the heating while the tank is being filled.
 WARNING	<ul style="list-style-type: none"> • <u>Never heat the boiling pan while empty</u>

2. CONTROL PANEL

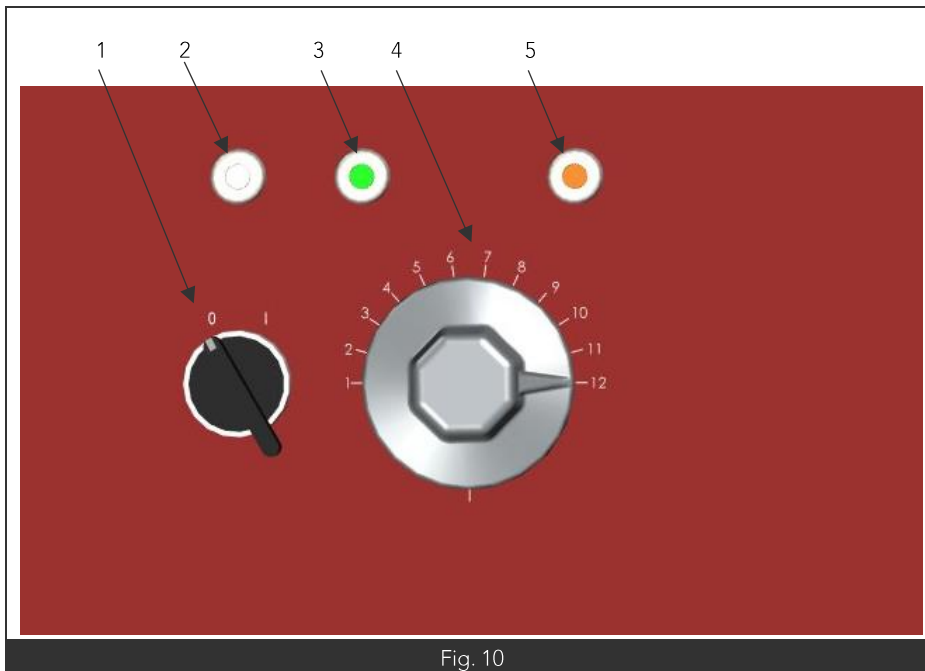


Fig. 10

Nomenclature	
Item	Description
1	On/Off switch
2	White 'power on' indicator light.
3	Green 'in operation' indicator light
4	Thermostat knob
5	Amber 'heating' indicator light

3. NORMAL USE

- With the appliance switched on, the white light is on (Fig. 10 Item 2).
- Turn the switch (Fig. 10 Item 1) to the On position '1', the green 'in operation' indicator light (Fig. 10 Item 3) comes on.
- Turn the thermostat control knob (Fig. 10 Item 4) to the desired position, the amber 'heating' indicator light (Fig. 10 Item 5) comes on and then turns off when the required temperature is reached.

4. INFORMATION

- The water jacket is automatically filled by the filling solenoid valve, which is controlled by the level card.
- Once the water jacket has been filled, you can start the heating.
- The pressure gauge should rise to 0.3 bar when regulating.

5. SWITCHING OFF

- Turn the control knobs to the '0' Off position.
- At the end of the day, shut off the electric power supply.



**OUVERTURE TOTALE DU COUVERCLE AVANT
DE BASCULER LA CUVE.**



**FULL OPENING OF THE LID PRIOR TO THE
TILTING THE TANK.**

Charvet cannot be held liable for any damage caused by misuse.

CLEANING & MAINTENANCE

1. WARNINGS



WARNING

Before cleaning the appliance, make sure that the parts to be handled have cooled down or equip yourself with suitable protection.

It is preferable to clean and maintain this equipment after switching it off.

This appliance must not be cleaned by means of water spray, water jets under pressure or steam.

The use of bleach and/or acid, even heavily diluted, is absolutely prohibited.

2. CLEANING THE OUTER SURFACES

- Clean each stainless steel panel with a sponge and soapy water (or any other neutral detergent).
- Rinse each panel thoroughly and dry with an oily cloth to preserve the stainless properties of the steel as long as possible.
- In case of encrusted waste, a plant-based abrasive may be used to rub the surface. However, please follow the direction of polishing in order to avoid scratching the panels.

3. CLEANING THE TANK

- The tank can be cleaned by soaking, then washing with water or a dishwashing product.
- 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.
- After cooking with salt or acidic foods, rinse the tank with clean water.

4. CLEANING THE STRAINER

- To remove the strainer from the tank, simply pull it upwards.
- You can clean it by hand or in a pan washer.
- To refit the strainer, push it towards the bottom of the tank, having first taken care to position the fixing holes over the pins provided for that purpose.



SPARE PARTS

Code	Description	Photo
02681 A	Water level controller	
506721	Level probe	
506627	Pressure gauge	
506710	Air eliminator	
506564	Non-return valve	
173642	Green indicator light 230v	
173640	Amber indicator light 230v	
173641	White indicator light 230v	
02050 A	Gasket for portable immersion heater	
506603	Lid hinge	

Code	Description	Photo
501146	Electric control knob	
06552 A	Water solenoid valve	
505805	Contacteur 50A	
07399 A	Pressure switch	
506711	Vacuum valve housing	
02104 A	On/Off switch	
04035 A	Smooth ball	
03917 A	Drain tap	
504953	Gasket for drain tap ø40-49	
02087 A	Portable immersion heater 9kW	