



SERIE 700 / 900 / 1100

GB ELECTRIC BAIN-MARIE

INSTRUCTION FOR INSTALLATION, ADJUSTEMENT, USE AND MAINTENANCE

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1 - INSTRUCTIONS FOR INSTALLATION

1.1 Identifying the models

	Serie 700	Serie 900	Serie 1100
Bain-Marie - ½ module (top)	803155127	803165127	803265127
Bain-Marie - 1 module (top)	803155145	803165145	
Bain-Marie - ½ module on cabinet	803115127	803125127	803225127
Bain-Marie - 1 module on cabinet	803115147	803125145	

1.2 Technical data

The technical data of this equipment are indicated in the **Table T1**.

2 - GENERAL INSTRUCTIONS

Read the instructions of this handbook carefully because they supply important information on installation, use and maintenance safety.

Keep this handbook carefully for any further reference of the various operators. The installation of this equipment must exclusively be carried out by qualified installers according to the manufacturer's instructions and to the safety rules in force.

The Manufacturer declines any liability if these rules are not complied with.

N.B. - This equipment complies with the CEI standard 61-50.

2.1 Installation

- After unpacking, check that the equipment is intact. In case of any doubt, do not operate this appliance and call immediately a professional engineer.
- Arrange the packing elements far from children, because they can be dangerous.

2.2 Positioning

- The equipment must definitively be installed in the position it occupies in the kitchen, preferably under an exhausting hood for a proper recirculation of air.
- The equipment must be installed only in rooms with a good ventilation.
- The equipment must be positioned at least 10 cm far from any wall surrounding it. In case of fire-proofing, or thermally insulated walls, this distance can also be reduced.
- These appliance can be installed separately, or assembled with other equipment of our line.
- This equipment is not available in built-in version.

2.3 Assembling

- Remove the protection film from the outer surfaces of the appliance. Clean these surfaces from probable residual adhesive using a proper solvent.
- Level the appliance turning the proper adjustable feet.
- In stand-alone version, the Bain-Marie with width of 40 cm must be fixed to the floor with the proper flanges (Fig. 5).

2.4 Assembling the top on a neutral base (Fig. 3)

- Assemble the top on the proper neutral base through the following operations.
- Remove control board and back of the top.
- Position the top on its base.
- Fasten these two elements with the four screws **V**, as shown in the fig. 3.
- Reassemble the control board and the back of the top.

2.5 Aligning the equipment (Fig. 2)

Operate as follows:

- Remove the control board of the top.
- Arrange the appliance side by side and level at the same height.
- Fasten the appliance with the proper screws, as shown in the fig.2.

2.6 Assembling the tops in bridge configuration (Fig. 4)



- Fix the two supporting crossbars T in the proper holes drilled in the sides of the contiguous bases.
- Level the two bases carefully.
- Position the top on the crossbars and remove the control board and the back of the top.
- Fasten the top onto the crossbars with the four screws V, as shown in the fig. 3.
- Align and fix the appliance arranged side by side, as indicated in the fig. 2.
- Reassemble the back and the control board of the top.

2.7 Electrical connections

- The range must be connected to the mains according to the safety rules in force.
- Before connecting the equipment, make sure that the values of its rating plate coincide with those of the mains.
- The power cord must be flexible and its characteristics must not be lower than those of the type insulated with rubber H05RN-F; furthermore it must be protected by a stiff plastic or metallic pipe. This cable must be connected to the terminal board, as it is shown in the electric diagram; then it must be fastened with the proper cable-clamp.
- A protection circuit breaker, with a contact opening of at least 3 mm, must be mounted before the equipment and near it. This switch must have a proper capacity (refer to the attached table **T1**) and it must be installed in the permanent electric system of the building. This switch must guarantee a protection against direct and indirect contacts of alive parts and against fault currents to the ground, according to the standards in force (maximum allowable leakage current: 1 mA/kW).

2.8 Grounding and bonding of the equipment

The electrical safety of this equipment is guaranteed when this is connected correctly to an efficient grounding system, as it is provided in the safety rules in force. Therefore, ground the equipment to the general grounding system, through the terminal

marked with  on the terminal board. Moreover, bond the equipment with the proper screw marked with the symbol .

2.9 Connection to the water and draining systems

Connection to the water system

- Connect the water inlet pipe to the water system applying a mechanic filter to a cut-off cock.
- Before connecting the filter, make the water run for some time to allow the elimination of possible ferrous scales from the pipes.

- The feeding water must be delivered at a pressure ranging from 1.5 and 2.5 bar.

Connection to the draining system

- Connect the drain of the basin to the draining system with pipes having a diameter not shorter than that designed and being heat-resistant up to 100 °C.

- A proper trap, with a diameter not shorter than that designed, must be inserted between the equipment and the draining system.

3 - STARTING

3.1 Checking the operation

- Before starting the equipment, switch on the main power switch installed before the water bath.

- Follow the instructions of use provided in the specific paragraph.

- Explain the operation of the equipment to the user, referring to the service handbook.

- Check the efficiency of the room ventilation systems.

- Check whether the data of the rating plate of the equipment correspond to those of the mains.

Warning: during the operation, take extreme care in handling the hot areas of the outer surface.

4 - CHECK OF SOME MALFUNCTIONS

Some malfunctions can occur during the normal operation of the equipment:

4.1 The temperature control is difficult, or it is missing

The basin is not heated and the green and yellow warning lights are on. Possible causes:

- the heating element is faulty.

- there is no continuity to the resistor for a wiring defect.

- in the models of 1 module apparatuses: the auxiliary relay is faulty.

The basin is not heated: the green LED is on, but the yellow LED is off. Possible causes:

- Intervention of the safety thermostat for overheating.

Difficult control of temperature

- The thermostat is faulty.

4.2 There is no water feeding

- The solenoid valve of water inlet is faulty.

- The control switch of water inlet is faulty.

5 - REPLACING SOME COMPONENTS

These operations must be carried out by authorized and qualified professionals.

Before carrying out any repair and/or maintenance operation, disconnect the power supply of the equipment turning off the main switch installed before the range. The sealed components must not be tampered with.

5.1 Switch and operating thermostat

- Remove the concerned knobs.

- Disconnect the wiring of the component.

- To substitute the thermostat, extract the thermostat from its own seat.

- Remove the screws fastening the switch-thermostat unit onto the control board.

- Replace the component and reassemble carrying out the same operations backwards.

5.2 Warning lights, switch of water inlet and heating relay only in the models of 1 module

- Remove the control board.

- Disconnect the wiring of the component.

- Reassemble the component carrying out the same operations backwards.

5.3 Electric resistors

- Remove the control board.

- Disconnect the wiring of the component.

- Unloose the screws of the flange fastening the resistor to its support and extract the heating element.

- Reassemble the component carrying out the same operations backwards.

5.4 Safety thermostat

Before enabling the thermostat again, eliminate the reasons provoking the overheating: examine the functioning of the operating thermostat, the resistors, water level in the basin, etc... Then carry out the following operations:

- Remove the control board.

- Press the red pushbutton of the thermostat.

- Check whether the electric circuit is closed again.

Replace the component operating as follows :

- Remove the control board.

- Extract the capillary tube and the bulb from their own seat.

- Disconnect the wiring of this component.

- Remove the screws fastening the thermostat to its support.

- Replace the component and reassemble carrying out the same operations backwards.

5.5 Solenoid valve of water inlet

- Remove the control board.

- Remove the protection cover of the solenoid valve.

- Disconnect the electric wiring and the pipes.

- Reassemble the component carrying out the same operations backwards.

5.6 Control pushbutton of water inlet

- Remove the control board.

- Disconnect the electric wiring.

- Replace the component and reassemble carrying out the same operations backwards.

6 - USE AND MAINTENANCE

6.1 Warning

This equipment has been designed for professional aims, therefore it must be operated exclusively by trained personnel.

It must exclusively be used to heat or to cook food; consequently any other use is improper.

Its installation and possible transformation for other supply voltages (when possible) must be carried out only by authorized and qualified installers.

In case of troubles, disconnect the main power switch, installed before the equipment.

For any repair, call the authorized After-Sales Service and require only original spare parts.

Not complying with these instructions may seriously compromise the safety of this equipment; the manufacturer declines any liability in case these warnings are not complied with.

ATTENTION ! Never enable the heating system of this equipment when its basin has no water.

Safety devices: this equipment is provided with a safety thermostat installed to avoid any overheating. This thermostat can also be enabled by the absence of water in the basin. In this case, stop the operation disconnecting the main switch and turning off the water inlet cock. Call the After-Sales Service.

Before switching on the water bath, clean all its surfaces in contact with food, with the utmost care.

6.2 Use of the water bath (fig. 1)

Insert the overflow, supplied with the equipment, in the draining hole of the basin.

Press the pushbutton **C** (Fig.1) enabling the water inlet in the basin and wait until the water reaches the level marked by a "notch" in the basin.

Turn the knob **M** to the position corresponding to the desired temperature.

The control knob **M** is marked with the following symbols:

0	Water bath off
40	Minimum temperature of water
70	Intermediate temperature
100	Maximum temperature

During the use, check the water level in the basin periodically; if necessary, fill up.

6.3 Switching off the equipment in case of fault

- In case of any trouble, disconnect the equipment turning the control knob (fig.1) to **0**.
- Disconnect the main switch installed before the equipment.
- Call an authorized After-Sales Service Centre.

7- CLEANING AND MAINTENANCE

- Before carrying out any cleaning operation, check that the main power switch, installed before the equipment, is off.
- The feeding water must not leave ferrous residuals in the basin; these residuals depositing on the bottom provoke serious phenomena of corrosion.

Metallic surfaces

- Wash the surfaces of stainless steel with water and non abrasive detergents, every day; then rinse abundantly and wipe carefully.
- When cleaning stainless steel, never use detergents with abrasive substances, nor steel wool, brushes or scrapers of common steel: in fact, these devices can leave some ferrous residuals generating "rust" on the stainless surface.
- Do not wash the equipment with water jets.
- Do not use sharp object that may carve and damage the stainless steel parts.
- Clean the floor under the equipment with non corrosive products.

When the equipment must not be used for long time, comply with the following instructions:

- Disconnect the main power switch installed before the equipment.
- Clean all the surfaces carefully.
- Protect the surfaces of stainless steel laying off a light film of white mineral oil with a cloth.
- Ventilate the rooms periodically.

- Check the equipment periodically (at least once a year); this check must be carried out by qualified professional personnel. Drawing up a maintenance contract is recommended.

8 - LIST OF SPARE PARTS

- Switch/operating thermostat
- Safety thermostat
- Water inlet cock
- Heating resistor of 2.2 kW - 230 V
- Solenoid valve of water inlet
- Control knob of the switch/thermostat
- Heating relay (only for models of 1 module)
- Warning lights.

T1

Modelli - Modelle - Models Modèles - Modellen	Σ kW	A	V	Cavo-Cable-Kabel H07RN-F mm ²
Serie 700				
803115127 803155127	2,2	9,6	230V~1N	n° 3 x 1 mm ²
803115147 803155145	4,4	9,6	400V~2N	n° 4 x 1 mm ²
803115147 803155145	4,4	16,5	230V~3	n° 4 x 2,5 mm ²
Serie 900				
803125127 803165127	2,2	9,6	230V~1N	n° 3 x 1 mm ²
803125145 803165147	4,4	9,6	400V~2N	n° 4 x 1 mm ²
803125145 803165147	4,4	16,5	230V~3	n° 4 x 2,5 mm ²
Serie 1100				
803225127 803265127	2,2	9,6	230V~1N	n° 3 x 1 mm ²

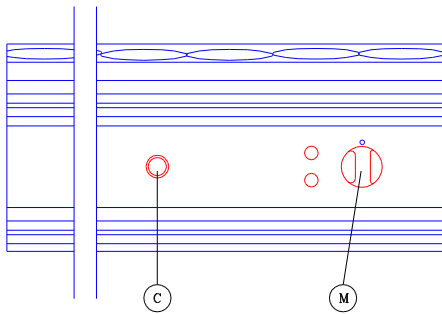


Fig. 1 - Abb. 1

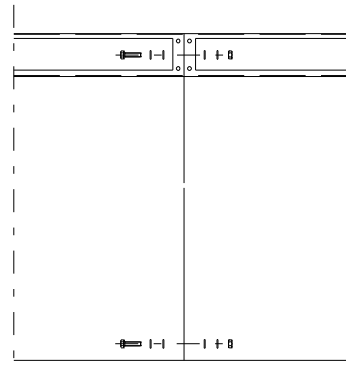


Fig. 2 - Abb. 2

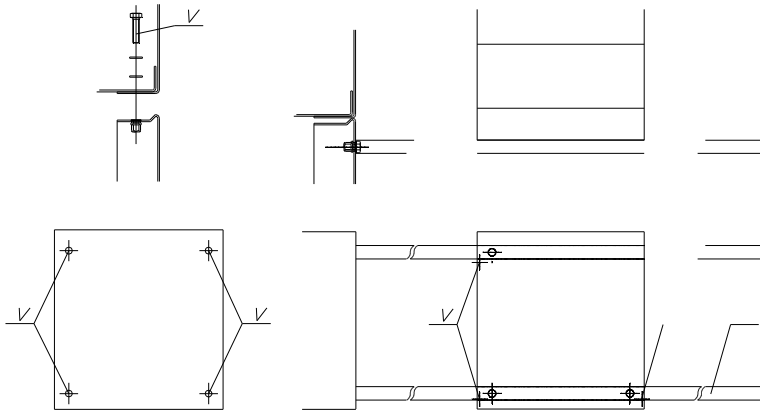


Fig. 3 - Abb. 3

Fig. 4 - Abb. 4

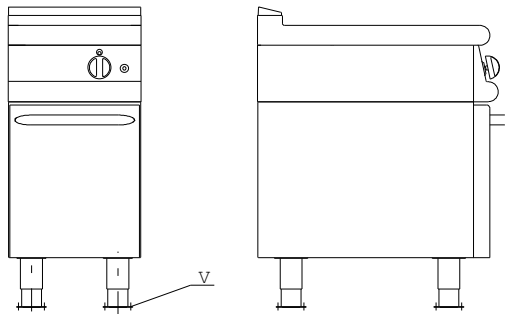
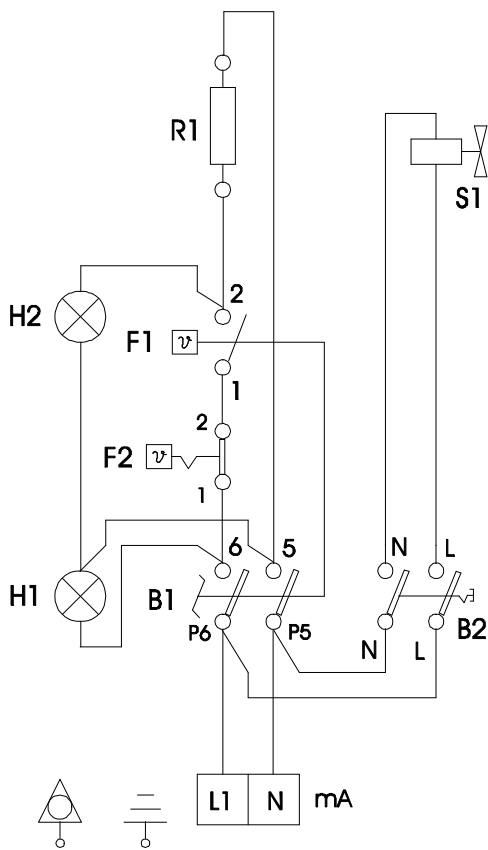
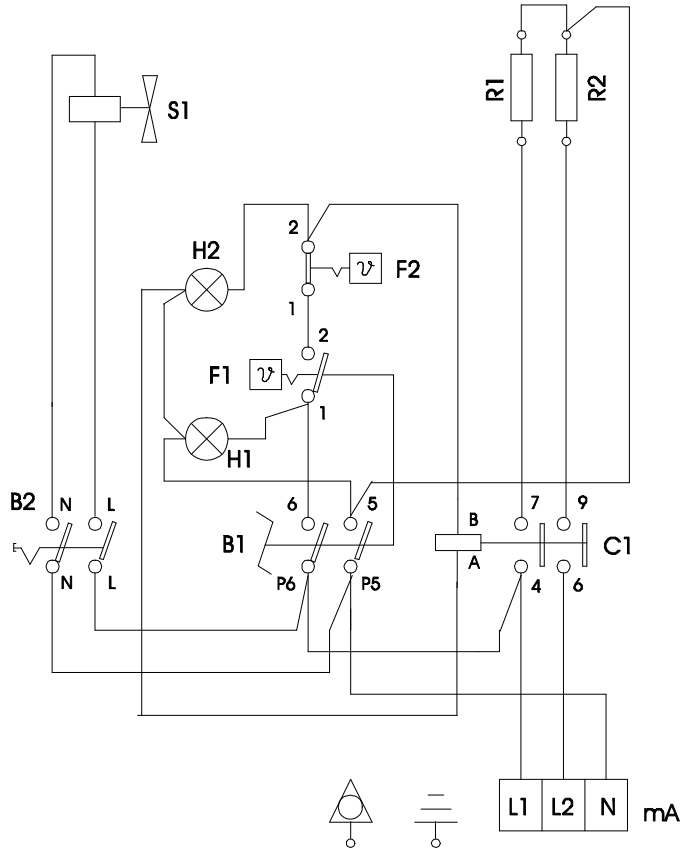


Fig.5 - Abb. 5



Serie 700 - Mod. 8031.15127 - 8031.55127
 Serie 900 - Mod. 8031.25127 - 8031.65127
 Serie 1100 - Mod. 8032.25127 - 8032.65127

R1 = 2,2 kW
 V = 230V - 1N
 Σ kW = 2,2
 A = 9,6



Serie 700 - Mod. 8031.15147 - 8031.55145
 Serie 900 - Mod. 8031.25145 - 8031.65145

R1-R2 = 2,2 kW
 V = 400V - 2N
 Σ kW = 4,4
 A = 9,6

B1 Interruttore
 Switch
 Schalter
 Interrupteur

F1 Termostato
 Thermostat

mA Morsettiera alimentazione
 Main terminal board
 Anschlussklemme
 Borne

B2 Interrut. carico acqua
 Water switch
 Wasser Schalter
 Interrupteur eau

F2 Limitatore temperatura
 Temper. limit. thermostat
 Temperatur Begrenzer
 Thermostat securité

R1 Resistenze
 Resistances
 R2 Heizkorper

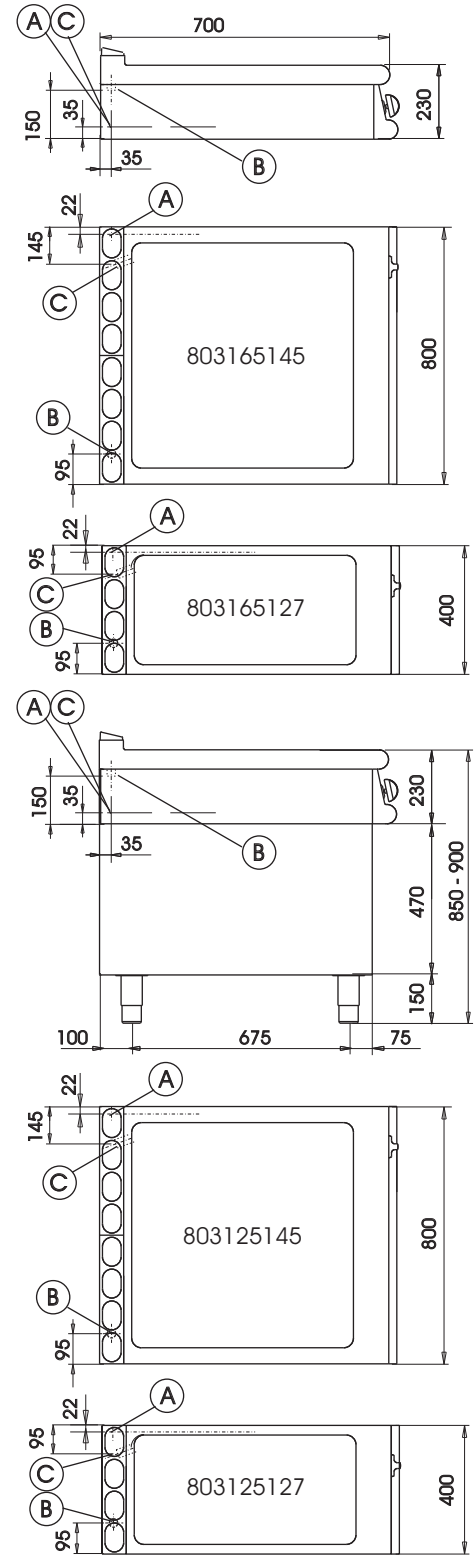
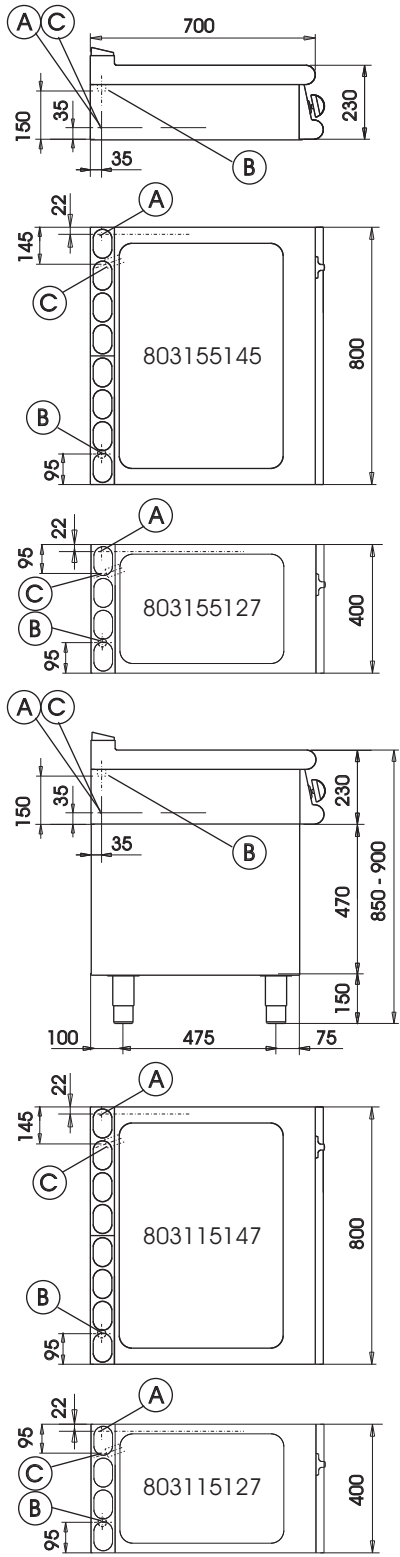
C1 Relè
 Relay
 Relais
 Relais

H1 Lampade segnalazione
 Pilot lampe
 Signallampe
 Lampe témoin

S1 Elettrovalvola carico acqua
 Water solenoid
 Wasser Ventil
 Elettrovanne eau

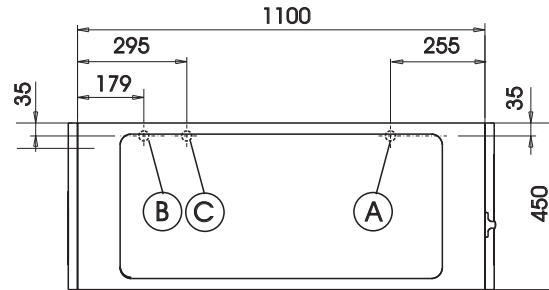
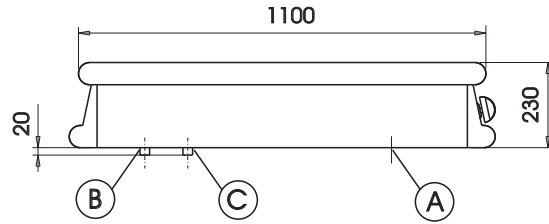
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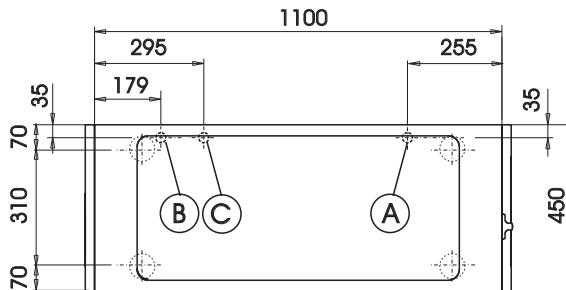
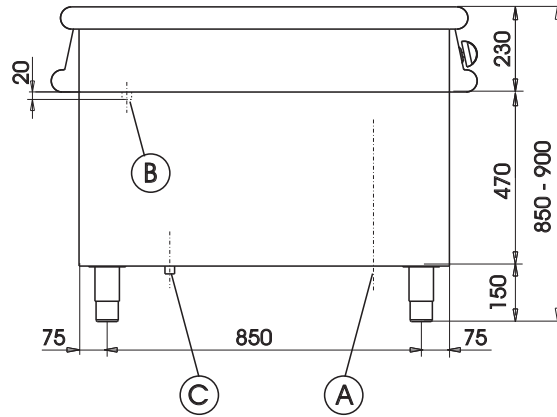


- (A) - Electric inlet connection
- (B) - Water inlet connection UNI ISO 7/1-R 3/4
- (C) - Water discharge connection UNI ISO 7/1-R 3/4

SERIES 1100



803265127



803225127

- (A) - Electric inlet connection
- (B) - Water inlet connection UNI ISO 7/1-R $\frac{3}{4}$
- (C) - Water discharge connection UNI ISO 7/1-R $\frac{3}{4}$

