


# EOLO M + caldaia GHIDINI

*User's and  
Maintenance  
Manual*



**ENGLISH**



|                      |  |
|----------------------|--|
| <i>Manufacturer</i>  | GHIDINI BENVENUTO s.r.l.   |
| <i>Product</i>       | Ironing Board – <b>EOLO M</b>  |
| <i>Year</i>          | 2011   |
| <i>Certification</i> |  |

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## 1 INTRODUCTION

This user's and maintenance manual refers to the "EOLO M" and "EOLO M + boiler" ironing board. It is possible to request the latest release to our Technical Commercial Department or by visiting our website [www.ghidini-gb.it](http://www.ghidini-gb.it).

This user's and maintenance manual contains important information for the protection of the health and safety of the personnel which is to use this device.

Read this manual with attention and keep it carefully to make it available to operators who want to consult it.

Ghidini s.r.l. rejects any liability for damages to persons or property in case of failure to comply with the dispositions of this manual.

Any modification to system components or any other use of the device or its components than those foreseen without previous written authorization from Ghidini s.r.l. will relieve the latter from any liability for damages to persons and/or property, and will void any right to the warranty.

## 2 GENERAL DESCRIPTION

The EOLO M ironing board is fitted with a spacious quadrangular working plane, available in two sizes: 130x80 cm or 160x80 cm, and two optional arms, fitted with a sleeve ironing board, both padded, electrically heated and fitted for suction, a control panel to adjust plane temperature and a pedal to activate the ironing planes suction device.

Available upon request with a built-in automatic and electric boiler and an iron.

Upon request, it is possible to fit the following components: complete steam iron group (for the version without boiler), a steam-air gun, a steam gun, a heated pelvis ironing board, a stainless steel stain removal board, an iron resting structure and a plane lighting plant.

In order to work, the version without boiler uses external steam and power supply sources, whereas the version with boiler uses external water and power supply sources.

## 3 MACHINE IDENTIFICATION

A plate which reports the model, serial number, year of manufacture, voltage and supply pressures is fitted on the side of the machine.

## 4 TECHNICAL FEATURES

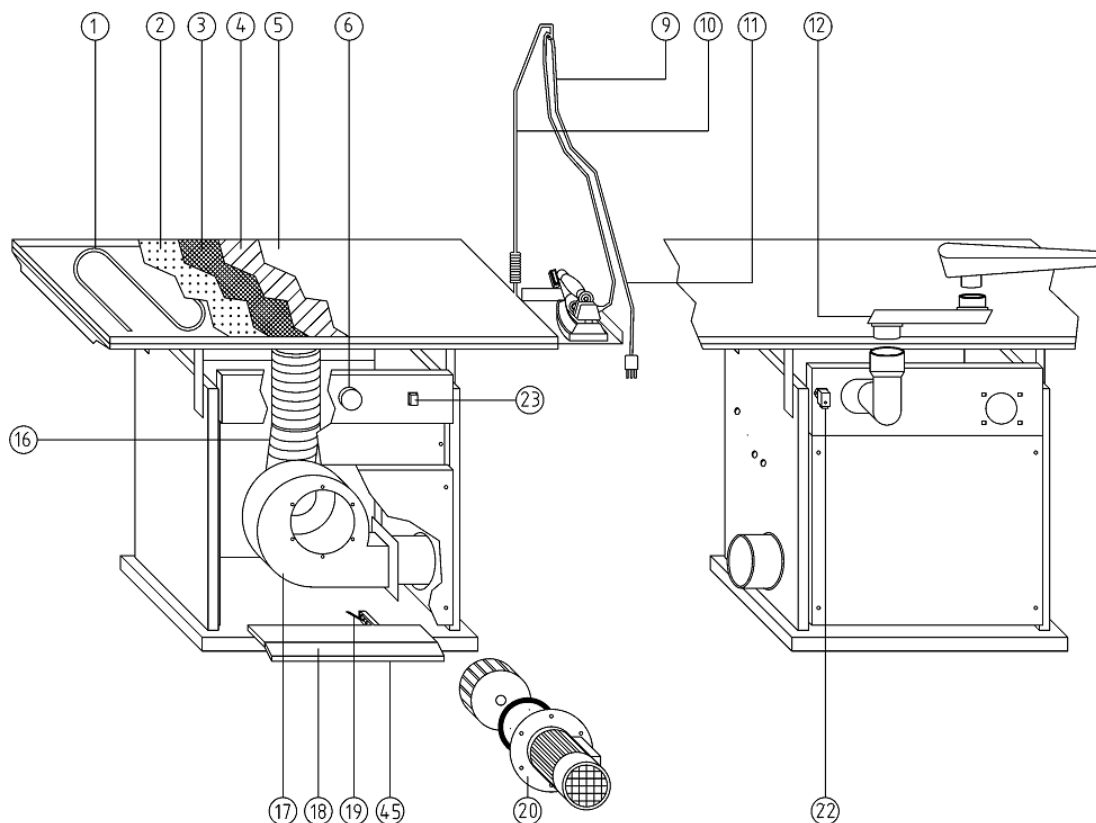
| <b>EOLO M</b>                     |                 | <i>without boiler</i> |         | <i>with boiler</i> |
|-----------------------------------|-----------------|-----------------------|---------|--------------------|
| Power supply                      |                 | 230V – 1ph / 50 Hz    |         |                    |
| Power consumption                 |                 | Iron                  | Arm     | Board              |
|                                   |                 | 0.83 Kw               | 0.14 Kw | 1 Kw               |
| Suction motor                     |                 | 0.6 Hp                |         |                    |
| Pump motor                        |                 | --                    |         |                    |
| Steam pressure                    |                 | 0.5 Hp                |         |                    |
| Steam consumption                 |                 | 2.6 bar               |         |                    |
| Noise pressure level              |                 | 5 Kg/h                |         |                    |
| Working temperature               |                 | < 70 dB(A)            |         |                    |
| Working humidity                  |                 | + 5 ÷ + 80 °C         |         |                    |
| Storage temperature               |                 | 90 % max.             |         |                    |
|                                   |                 | - 20 ÷ + 50 °C        |         |                    |
| Net overall dimensions            | Plan 1300 x 800 | 1300 x 800 x 920 mm   |         |                    |
|                                   | Plan 1600 x 800 | 1600 x 800 x 920 mm   |         |                    |
| Net weight                        | Plan 1300 x 800 | 106 Kg                |         | 125 Kg             |
|                                   | Plan 1600 x 800 | 111 Kg                |         | 131 Kg             |
| Overall dimensions (with package) | Plan 1300 x 800 | 1340 x 960 x 1090 mm  |         |                    |
|                                   | Plan 1600 x 800 | 1870 x 960 x 1190 mm  |         |                    |
| Overall weight (with package)     | Plan 1300 x 800 | 166 Kg                |         | 185 Kg             |
|                                   | Plan 1600 x 800 | 176 Kg                |         | 196 Kg             |

**WARNING:** do not power the machine with voltages other than the ones reported in the table.

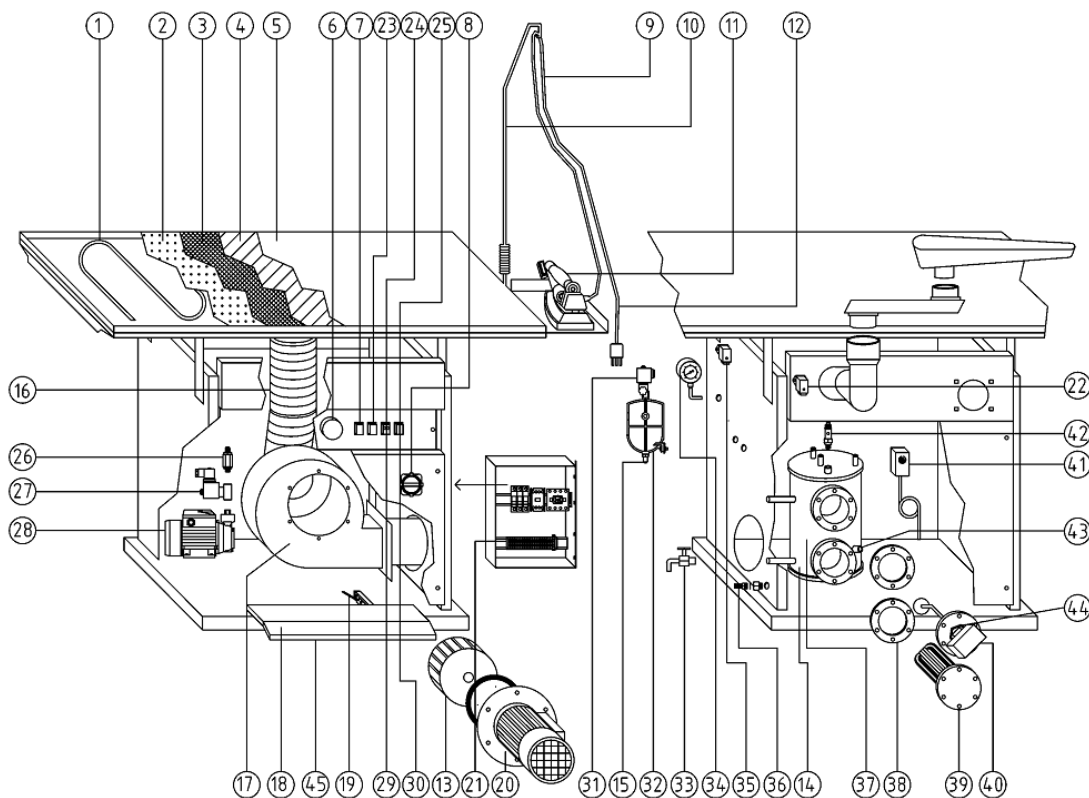
## 5 MACHINE COMPONENTS

The main parts of the machine are:

### EOLO M (without boiler)

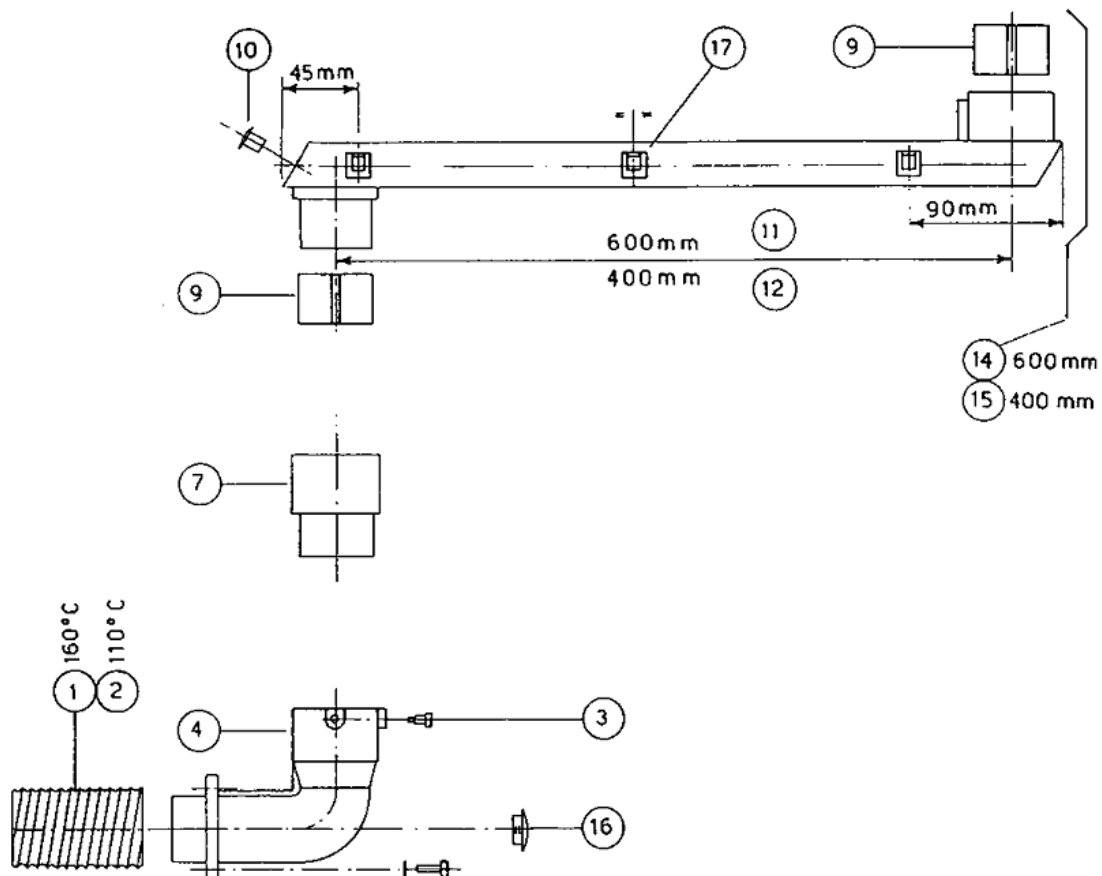


### EOLO M (with boiler)



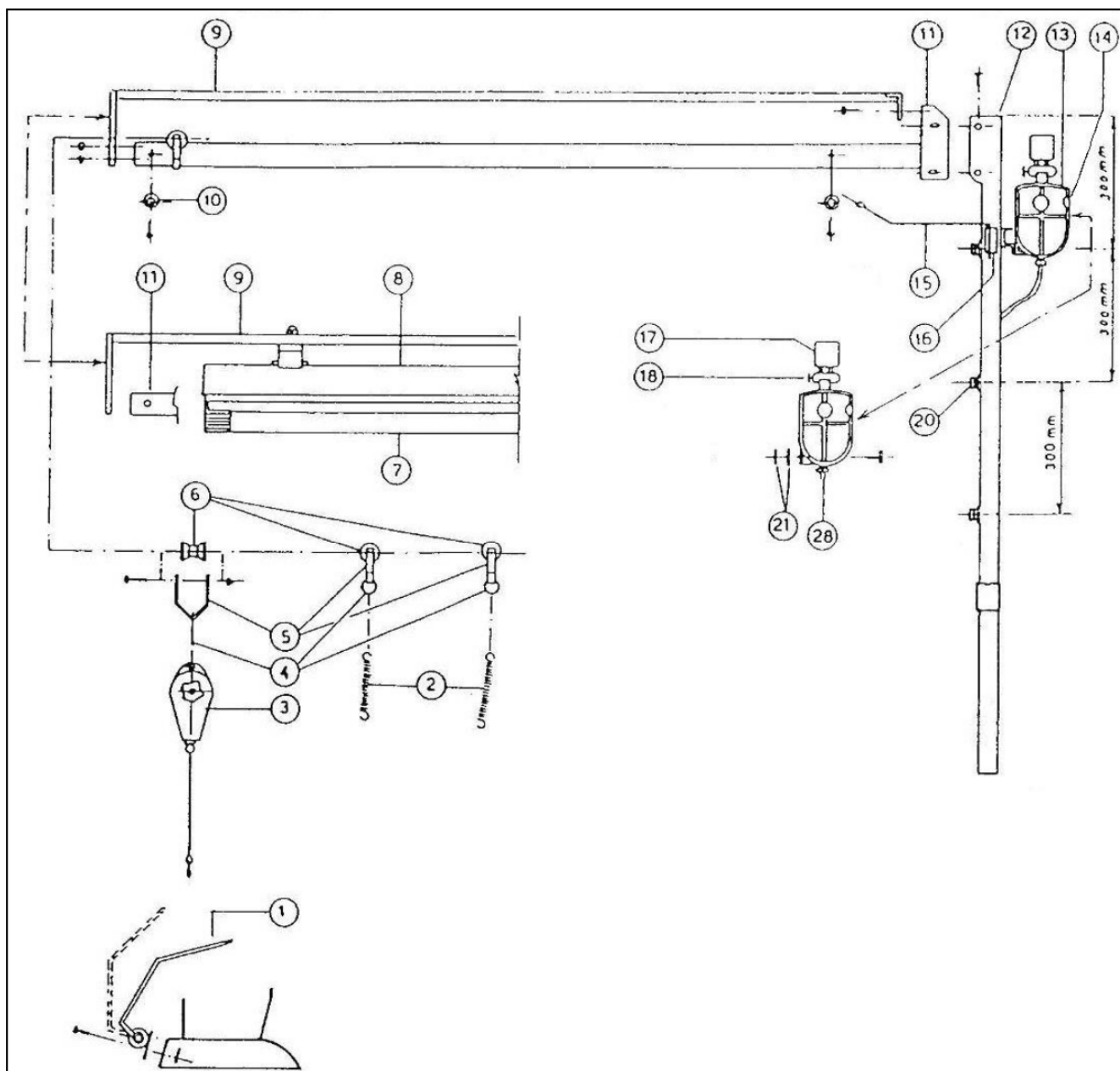
| Pos. | Code   | DESCRIPTION                  | Pos. | Code   | DESCRIPTION                     |
|------|--------|------------------------------|------|--------|---------------------------------|
| 1    | 213003 | Resistance for 1300x800      | 23   | 43A020 | Sleeve ironing board switch     |
|      | 213001 | Resistance for 1600x800      | 24   | 43A014 | Iron switch                     |
| 2    | 161009 | Perforated plate 130x80      | 25   | 43A016 | Boiler resistance warning light |
| 3    | 161019 | Perforated plate 160x80      | 26   | 37W001 | Water shutoff valve             |
| 4    | Z27P06 | Padding 130x80               | 27   | 39B036 | Water solenoid valve            |
| 5    | Z27P06 | Padding 160x80               | 28   | 42B030 | Water pump (optional)           |
| 6    | 45A010 | Board temperature thermostat | 29   | 43A014 | Boiler switch                   |
| 7    | 43A046 | Voltage warning light        | 30   | 43A016 | Water feeding warning light     |
| 8    | 43A043 | Breaker switch handle        | 31   | 39B012 | Iron steam solenoid valve       |
| 9    | 0ZA001 | Iron steam pipe              | 32   | 202031 | Condensate separator            |
| 10   | 364253 | Cable holding antenna        | 33   | 37A010 | Draining faucet                 |
| 11   | Z01L10 | Mod. U iron                  | 34   | 35A004 | Pressure gauge                  |
| 12   | Z23C00 | Iron power cable             | 35   | 43G004 | Iron plug                       |
| 13   | 42H003 | Suction fan                  | 36   | 36E006 | Water inlet O-ring holder       |
| 14   | 46M016 | Boiler cover                 | 37   | 201022 | Boiler                          |
| 15   | 38W063 | Check valve                  | 38   | 244236 | Resistance and control O-ring   |
| 16   | 06D032 | Suction pipe                 | 39   |        | Boiler resistance               |
| 17   | 42H007 | Suction feeder screw         | 40   | 49A002 | Water level control             |
| 18   | 175103 | Suction pedal                | 41   | 45G012 | Pressure switch                 |
| 19   | 43D002 | Suction pedal micro          | 42   | 38S001 | Safety valve                    |
| 20   | 42A002 | Suction motor                | 43   | 45B004 | Boiler safety thermostat        |
| 21   | 162118 | Electric board               | 44   | 183270 | Level control flange            |
| 22   | 43G006 | Arm plug                     | 45   | 534257 | Pedal return spring             |

#### ARM FITTING Ø 60



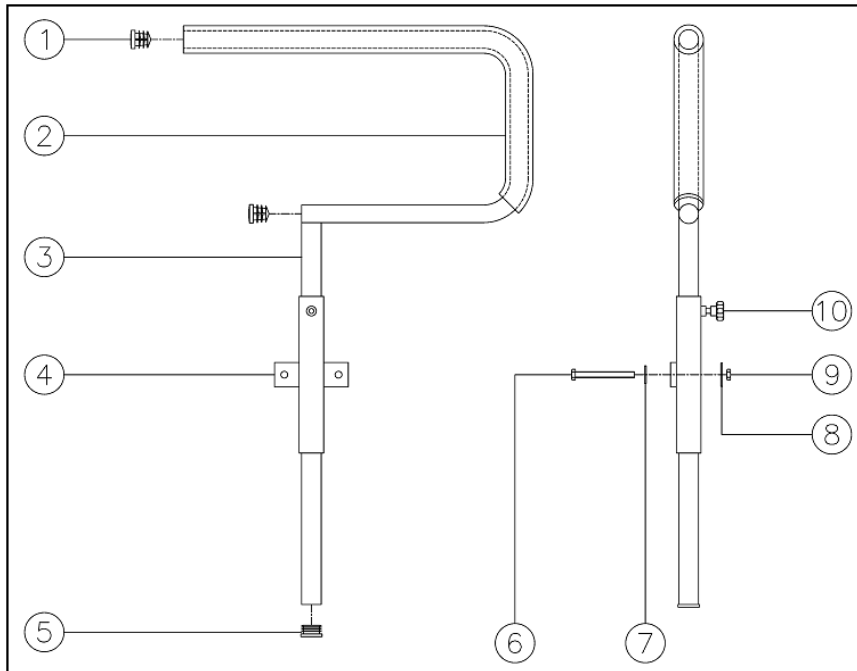
| Pos. | Code   | DESCRIPTION       | Pos. | Code    | DESCRIPTION                |
|------|--------|-------------------|------|---------|----------------------------|
| 1    | 06D014 | Ø 63 160°C pipe   | 11   | Z14H01B | Articulation L600          |
| 2    | 06D016 | Ø 62 110°C pipe   | 12   | Z14H02B | Articulation L400          |
| 3    | 184472 | Screw             | 14   | Z14H01  | Complete articulation L600 |
| 4    | 341014 | Arm support elbow | 15   | Z14H02  | Complete articulation L400 |
| 7    | 342110 | Valve body        | 16   | 22K011  | Stopper                    |
| 9    | 604419 | Teflon® bearing   | 17   | 46R010  | Wire clamp                 |
| 10   | 22K016 | Stopper           |      |         |                            |

## IRON HOLDER COLUMN AND LIGHTING



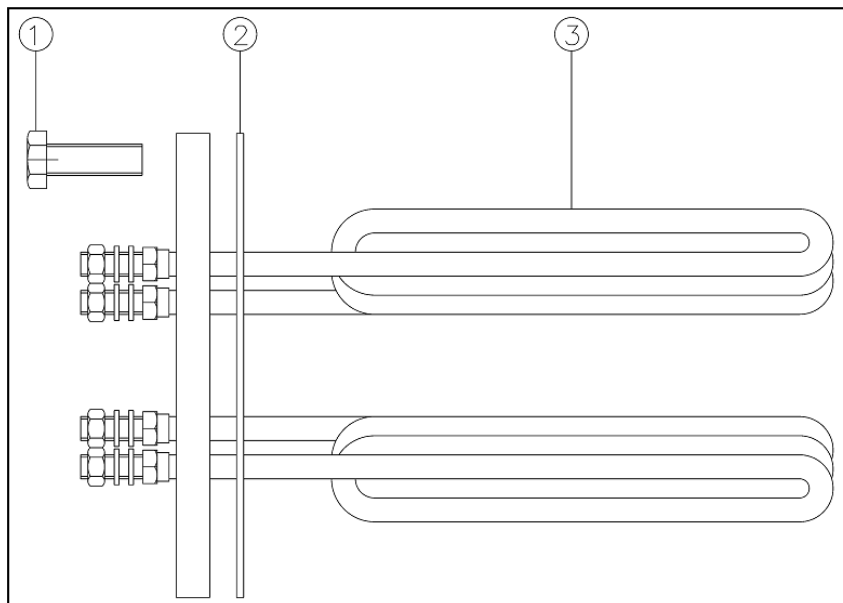
| Pos. | Code   | DESCRIPTION                | Pos. | Code   | DESCRIPTION                          |
|------|--------|----------------------------|------|--------|--------------------------------------|
| 1    | Z08M00 | Iron mod. U holder fitting | 15   | 174520 | Accessory holder                     |
| 2    | 534264 | Spring                     | 16   | 174521 | Accessory holder bracket             |
| 3    | 43A001 | Balancer                   | 17   | 39H011 | Steam solenoid valve coil for iron   |
| 4    | 51X010 | Ring                       | 18   | 39B005 | Iron steam solenoid valve            |
| 5    | 174022 | Hanger                     | 19   | 175108 | Condensate separator support bracket |
| 6    | 56B002 | Complete knob              | 20   | 46R005 | Wire clamp                           |
| 7    | 43C009 | 36W - 230V lamp            | 21   | 244244 | 30x7x3 O-Ring                        |
| 8    | 43C007 | Complete lamp              | 22   | 43K005 | Switch box                           |
| 9    | 174084 | front lamp support         | 23   | 43A003 | Switch                               |
| 10   | 22A002 | Buffer stem                | 24   | 43H001 | Plug                                 |
| 11   | 173304 | L150 sliding rail          | 25   | 174017 | L35 spacer                           |
|      | 173025 | L178 sliding rail          | 26   | 174016 | L43 spacer                           |
| 12   | 173028 | Upper column               | 27   | 173011 | Lower column                         |
| 13   | 202052 | Condensate separator       | 28   | 38W063 | Check valve                          |
| 14   | 22K019 | Rubber cover               |      |        |                                      |

### SHORT LEG SEPARATOR



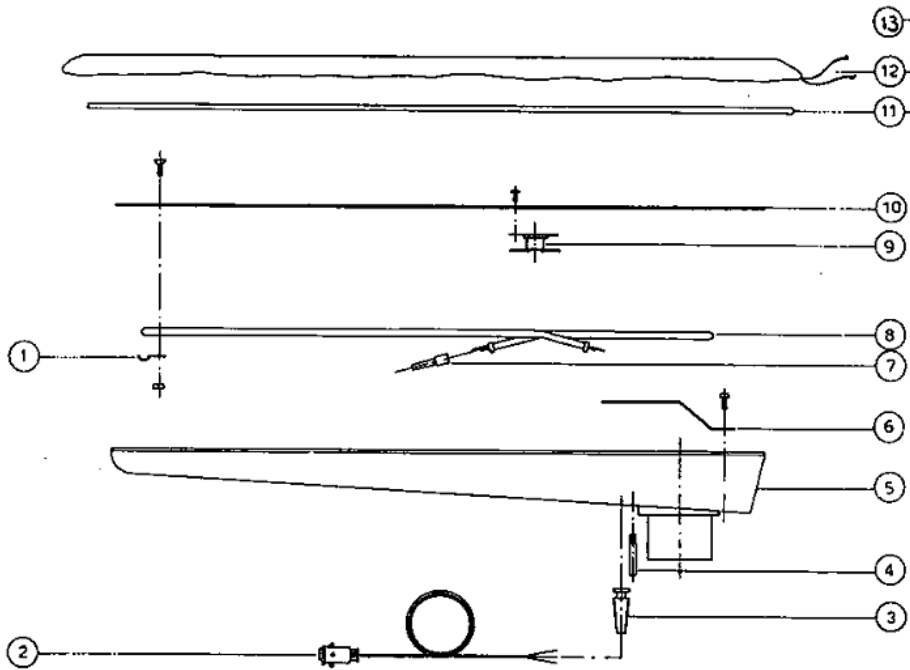
| Pos. | Code   | DESCRIPTION            | Pos. | Code   | DESCRIPTION |
|------|--------|------------------------|------|--------|-------------|
| 1    | 22K021 | Stopper                | 6    | 50A029 | M6x60 screw |
| 2    | 07A007 | Insulating rubber pipe | 7    | 50J009 | 6x18 washer |
| 3    | 173035 | Leg separator          | 8    | 50J008 | 8x24 washer |
| 4    | 173027 | Leg separator support  | 9    | 51A003 | M6 nut      |
| 5    | 22K025 | 20 x 20 stopper        | 10   | 52A004 | Wheel       |

### Ø 130 RESISTANCE FLANGE



| Pos. | Code   | DESCRIPTION  | Pos. | Code   | DESCRIPTION                   |
|------|--------|--------------|------|--------|-------------------------------|
| 1    | 50A016 | M10x25 screw | 3    | 212061 | 3.9 kW ± 5% boiler resistance |
| 2    | 244236 | O-ring       |      | 212060 | 3.3 kW ± 5% boiler resistance |
|      |        |              |      | 212063 | 4.8 kW ± 5% boiler resistance |
|      |        |              |      | 212062 | 6 kW ± 5% resistance boiler   |

**EXPLODED VIEW OF Ø 60 SLEEVE BOARD CODE : Z14A01**

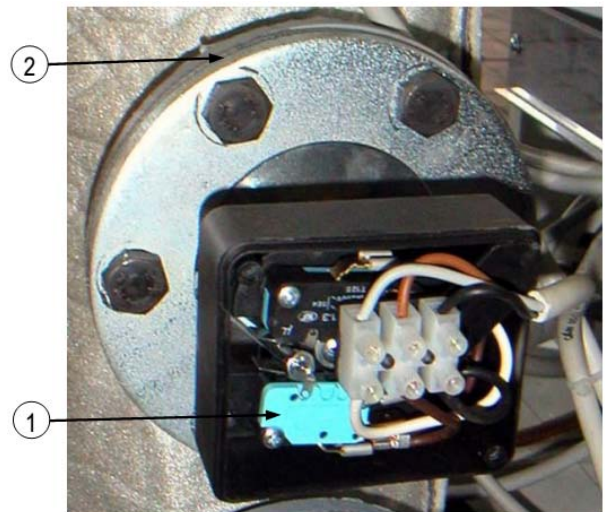
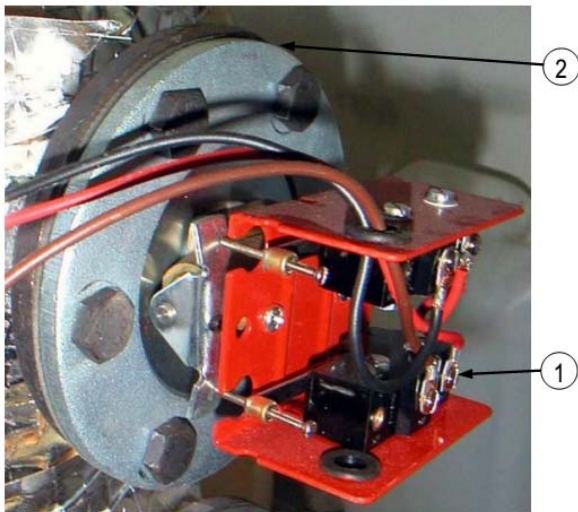


| Pos. | Code   | DESCRIPTION          | Pos. | Code    | DESCRIPTION              |
|------|--------|----------------------|------|---------|--------------------------|
| 1    | 174357 | Easel                | 8    | 213113  | V230W90 resistance       |
| 2    | 43H007 | Plug                 | 9    | 45B001  | 80°C thermostat          |
| 3    | 224216 | Cable sleeve         | 10   | 173323  | Plate                    |
| 4    | 184158 | Pivot                | 11   | Z27ZP14 | Full padding with canvas |
| 5    | 340019 | Sleeve ironing board | 12   |         |                          |
| 6    | 173343 | Deflector            | 13   |         |                          |
| 7    | 224298 | Terminal cap         |      |         |                          |

**AUTOMATIC LEVEL CHECK**

**code 49A002**

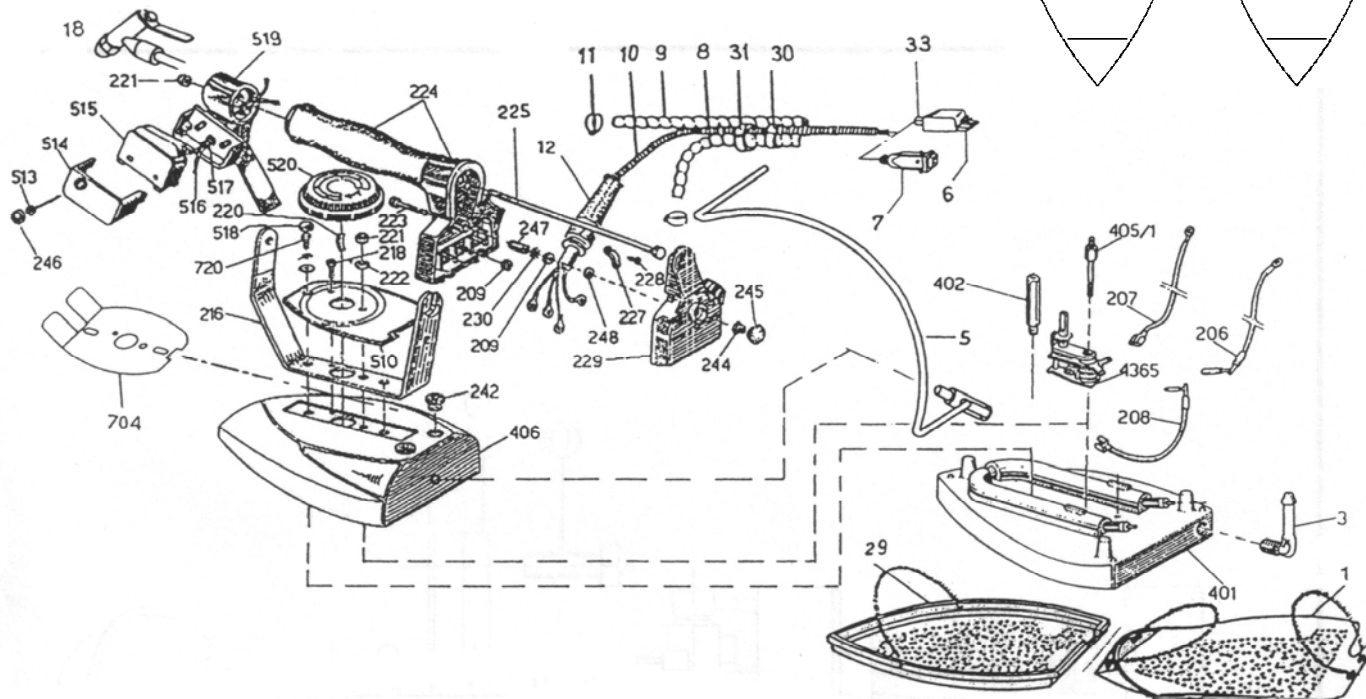
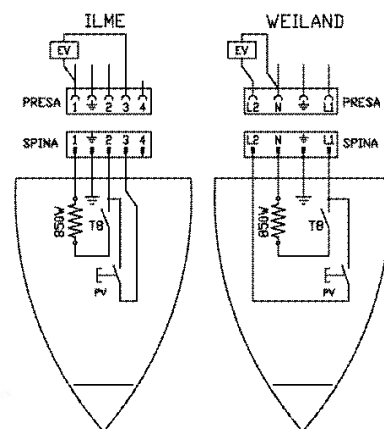
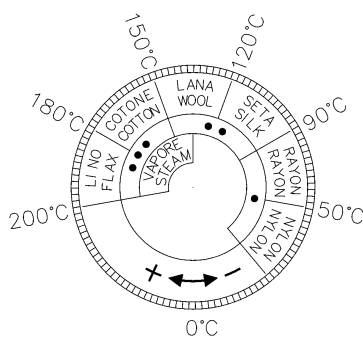
**code 49A001**



| Pos. | Code   | DESCRIPTION   | Pos. | Code   | DESCRIPTION   |
|------|--------|---------------|------|--------|---------------|
| 1    | 43D014 | Micro         | 1    | 43D013 | Micro         |
| 2    | 244236 | O-Ring flange | 2    | 244236 | O-Ring flange |
| 3    | 49G001 | Float         | 3    | 49G001 | Float         |

## MOD "U" IRON

| TECHNICAL FEATURES    |                |
|-----------------------|----------------|
| Power supply          | 220V 50 Hz     |
| Iron resistance       | 0.830 Kw       |
| Operating temperature | + 5 ÷ + 80 °C  |
| Temperature humidity  | 90 % max.      |
| Storage temperature   | - 20 ÷ + 50 °C |
| Net weight            | 1.8 Kg         |



| Pos.  | POS.   | DESCRIPTION                          | Pos. | POS.   | DESCRIPTION                                 |
|-------|--------|--------------------------------------|------|--------|---|
| 4365  | 45A005 | Thermostat with thermal fuse         | 224  | 222056 | Handle                                      |
| 720   | 184453 | Carter fitting screw                 | 223  | 184457 | Handle blocking screw                       |
| 704   | 253297 | Hand guard                           | 222  | 514057 | Carter fitting nut                          |
| 520   | 224217 | Knob                                 | 221  | 514056 | Handle tie rod nut                          |
| 519   | 173236 | Micro holder                         | 220  | 534288 | Knob spring                                 |
| 518   | 22K038 | Carter screw cap                     | 218  | 184455 | Carter fitting screw                        |
| 517   | 224217 | Sheath                               | 216  | 172057 | Handle support                              |
| 516   | 304284 | Micro wires                          | 209  | 514055 | Terminal box nut                            |
| 515   | 43D009 | Micro complete with wires and sheath | 208  | 304282 | Thermostat resistance electric connection   |
| 514   | 43K007 | Micro-switch box                     | 207  | 304281 | Thermostat terminal box electric connection |
| 513   | 184451 | Micro screw                          | 206  | 304280 | Resistance terminal box electric connection |
| 510   | 264350 | Identification plate                 | 33   | 224255 | Plug grommet                                |
| 406   | 253255 | Carter                               | 31   | 224260 | Cable fastener terminal                     |
| 405/1 | 174020 | Thermostat column                    | 30   | 224215 | Spring                                      |
| 402   | 174019 | Column carter                        | 29   | Z23E01 | Reinforced Teflon pad                       |
| 401   | 253254 | Plate with resistance                | 18   | 25A002 | Spray device                                |
| 248   | 184449 | Insulating washers                   | 12   | 224210 | Grommet                                     |
| 247   | 174018 | Mass spacer                          | 11   | 51X005 | Cable tie                                   |
| 246   | 22K037 | Micro stopper                        | 10   | Z23C00 | Electric wire                               |
| 245   | 22K036 | Stopper cap                          | 9    | 07A002 | Silicone pipe                               |
| 244   | 514058 | Back cover nut                       | 8    | 07A001 | Rubber pipe                                 |
| 242   | 224245 | Grommet                              | 7    | 43H009 | Ilme plug                                   |
| 230   | 184448 | Dented washer                        | 6    | 43H002 | Wieland plug                                |
| 229   | 222133 | Back cover                           | 5    | 174009 | Articulated iron holder                     |
| 228   | 184450 | Easel screw                          | 3    | 364297 | Hose holder                                 |
| 227   | 174353 | Blocking easel                       | 1    | Z23E00 | Teflon pad                                  |
| 225   | 183255 | Handle tie rod                       |      |        |   |



## 6 MACHINE PACKING AND INSTALLATION

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**WARNING:** This device can be installed, opened and repaired by specialized personnel only.

### 6.1 UNPACKING

After choosing a suitable site to install the machine, open the packing and remove the device. Check that it has suffered no damage during transportation and storage. The packing material can be disposed of normally, no special precaution is required since it is neither dangerous nor a pollutant. Comply with local disposal regulations.

### 6.2 MACHINE INSTALLATION

The machine needs no anchoring to the floor, except onboard moving means.

Provide for adequate installation room, leaving enough surrounding space to allow correct operation and assistance.

Do not install the machine in aggressive and/or deflagrating/flammable environments.

### 6.3 ELECTRIC CONNECTIONS

Connect the machine to the electric line as indicated in the drawing, checking that the voltage and frequency match the data on the plate.

The section of the electric wire must suit machine absorption and be of a type compliant with the regulations in force.

We advise to fit on the line a circuit breaker with fuses or a magneto-thermal circuit breaker. Insert the wire in the hole fitted with a wire gland, then tighten. Connect the wire to the line incoming terminals in the electric panel as indicated in the drawing of this manual.

Check the motor rotation direction and, if it is wrong, invert two out of the three input phases.

### 6.4 WATER AND BOILER DISCHARGE CONNECTION (Machine with built-in boiler only)

Connect the water pipework to the machine's Ø 12 hose holder. Fit a shutoff valve and a filter on the water supply, which must be closed every night to prevent water backwash in the boiler. Connect the gate valve of the boiler discharge (G 3/8" threading) to the sewers.

### 6.5 STEAM FEEDING CONNECTION (Machine without built-in boiler only)

- When connecting the machine to a centralized plant, proceed as follows:

Derive from the top of the centralized plant steam outlet a G 1/4" pipe and fit a gate valve close to the machine. Connect a pipe with a 10 mm minimum internal Ø at the steam input of the machine (present threading G 1/4").

For the condensate return, make a pipework identical to that of the steam and fit a gate valve close to the machine followed by a check valve. Connect a 10 mm minimum internal Ø to the check valve.

The maximum steam line pressure must be 4.5 bar.

- When connecting the machine to a small steam generator, proceed as follows:

The machine feeding inlet connection to the steam plant is G 1/4". The steam line pressure must not exceed 4.5 bar.

We advise to use an 8 mm minimum internal Ø pipe. Fit a gate valve on the pipe to isolate the machine from the plant. Connect the condensate return to the machine (present threading G 1/4") using, in this case as well, an 8 mm minimum internal Ø pipe. Fit on the piping a check valve followed by a gate valve to make it possible to isolate the machine from the plant, then connect to the small steam generator.

### 6.6 Air and steam draining connection

We advise to send the air sucked in by the ironing board to the outside of the premises by connecting a pipe to the suction device output. This pipe must have a length and diameter which will not alter the machine operation.

Do not create a siphon effect, do not fit couplings or valves whose diameter is less than the pipe's, do not make pipings whose length exceeds 2.5 meters. The steam return hole of the machine must be at least 150 mm higher than the water level in the boiler.

**N.B.:** When all connections are completed, make sure the wires are protected from possible shocks and suitably fitted and insulated.

## 7 OPERATION INSTRUCTIONS

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### 7.1 STARTING UP

- The unit can be used, opened and repaired by specialized personnel only.
- DO NOT use the machine if it is immersed in fluids or in a particularly aggressive or deflagrating/flammable environment.
- Do not overlook hazards to health and comply with health and safety regulations.
- Check that the electric connection is correctly made and compliant with the regulations in force, and that all fuse boxes are closed and complete with their fuses.
- Check the machine's integrity.

### 7.2 USE

#### *Machine with boiler:*

- Open the supply gate valve.
- Activate the general switch of the machine.
- Activate the boiler switch.
- The water feeding warning light turns on automatically (water starts entering the boiler).
- When water reaches the set level, the relevant warning light automatically turns off and the boiler's resistance turns on, as well as the boiler resistance warning light.
- After a few minutes, the boiler reaches its 2.8-bar working pressure (check pressure on pressure gauge) and the relevant warning light automatically turns off.
- The generator is ready to supply steam.
- Adjust the working plane temperature using the thermostat handle.
- Wait for the boards and iron to reach the set temperature.
- Press the pedal to activate air suction on the board.
- Upon completing the work, turn the ironing board off using the relevant buttons.

#### *Machine without boiler:*

- Open the steam supply gate valve and condensate check valve.
- Activate the general switch of the machine.
- Adjust the working plane temperature using the thermostat handle.
- Wait for the boards and iron to reach the set temperature.
- Press the pedal to activate air suction on the board.
- Upon completing the work, turn the ironing board off using the relevant buttons.

### 7.3 USING THE ARM

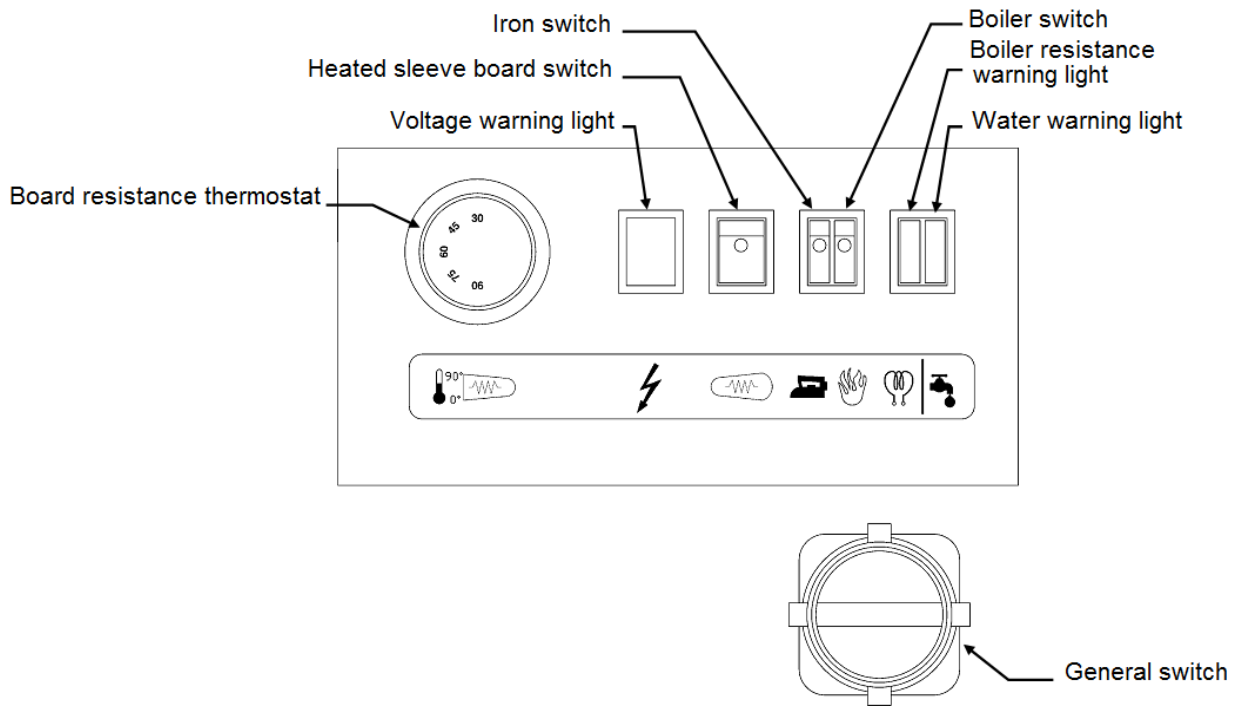
- Grab the sleeve board and pull it over the board in working position. Use the pedal to activate suction.

### 7.4 USING THE MOD. "U" IRON

- Turn on the iron switch on the machine.
- Wait for a few minutes before starting to work, to let the plate reach the set temperature.
- If it is necessary to keep the iron plate temperature very high, we advise to fit a Teflon<sup>®</sup> pad to avoid burning the garment.

### 7.5 USING THE AIR-STEAM GUN FOR STAIN REMOVAL

- Lay the garment to be treated on the stain removal board and place the stain over the suction area.
- Press the steam button, pointing the nozzle towards a container to let condensate exit until steam comes out.
- Approach the gun to about one centimeter of the area to be treated and simultaneously press the suction pedal and the steam button on the gun.
- Once the stain is dissolved, dry the treated area by pressing simultaneously the suction pedal and the air button on the gun.



## 8 PROBLEMS AND SOLUTIONS

We hereunder report a diagnostic table which indicates the main problems, their probable causes and possible solutions. When in doubt and/or in case of unsolvable problems, do not try and look for the malfunction by dismantling parts of the machine, but contact the Ghidini Technical Department or a dealer.

| DIAGNOSTIC TABLE   |  |   |
|--|--|---|
| PROBLEMS   | PROBABLE CAUSES                                  | SOLUTIONS   |
| No suction on the working planes   | Pedal miniruptor broken down.                    | Replace the miniruptor.                               |
| No heating on the working planes   | Thermostat broken down.                          | Replace the thermostat.                               |
| The machine fails to turn on   | General switch deactivated                       | Check if general switch is on and fuse condition      |
|  | Switch turned off                                | Turn switch on  |
| No steam comes out   | Iron or boiler activation switches off           | Turn switch on  |
| The water warning light is on but the pump keeps loading without stopping.               | No water flows into the boiler                   | Check if water faucet is open.                        |
|  |  | Check of water network is pressurized.                |
|  |  | Check is water filter is not clogged.                 |
| The resistance warning light remains and the boiler fails to reach the working pressure. | Boiler draining leak.                            | Check if the boiler draining valve is tightly closed. |
|  | Resistance burnt of covered with calcium deposit | Check resistance condition.                           |

**WARNING:** if the safety valve is activated, immediately turn the boiler off and call a qualified technician. Do not stop the discharge and, in any case, do not underestimate the problem. Explosion hazard. If the boiler safety thermostat is activated, check the float level control.

## 9 PRECAUTIONS FOR USE

Read with attention the warnings and hazards associated to the use of an ironing board. The operator must know how to operate the machine and clearly understand such hazards by using the manual.

If the machine is equipped with an iron, do not leave it on for long and always lay it on its support. The machine's working surfaces and metal plate remain hot for several minutes after it has been turned off. Beware of the burning hazard and do not put objects on them until they have completely cooled down.

### Electric power

Before any intervention on the machine, disconnect it from its power supply and take steps to make sure that no one can reconnect it during said intervention. All installed, electric and electronic equipment, and basement structures must be earthed.

**Flammability**

It is advised to use every mean available to prevent any contact between the machine and very hot parts or free flames. Make sure extinguishers are always available by the machine for a quick intervention in case of fire.

**Pressure/Steam**

Before any intervention, turn the boiler off, wait for the pipes to cool down and make sure no pressure is left in the boiler and in any part of the hydraulic circuit, which might cause spurts of steam when dismantling connections or components.

**Noise**

No excessive noise is released by the machine, which remains under 70 dB(A).

**10 WARNINGS**

Checks are to be carried out on the compliance with the essential safety requisites and with the provisions prescribed in the machines directive by filling out pre-drafted check lists enclosed in the *technical file*.

Two types of such lists are used:

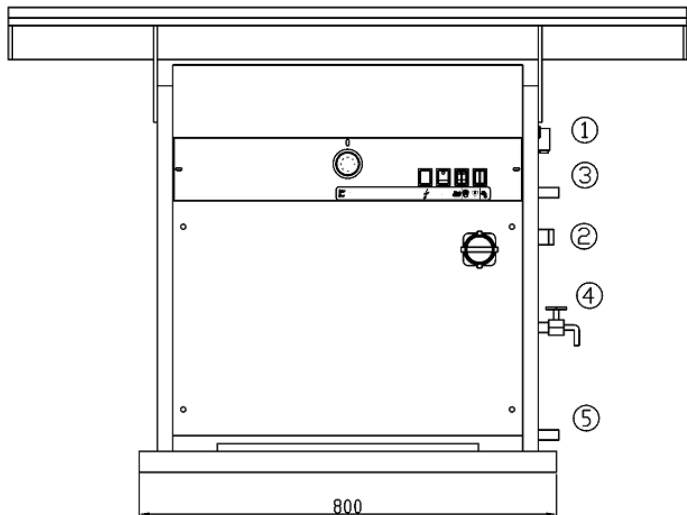
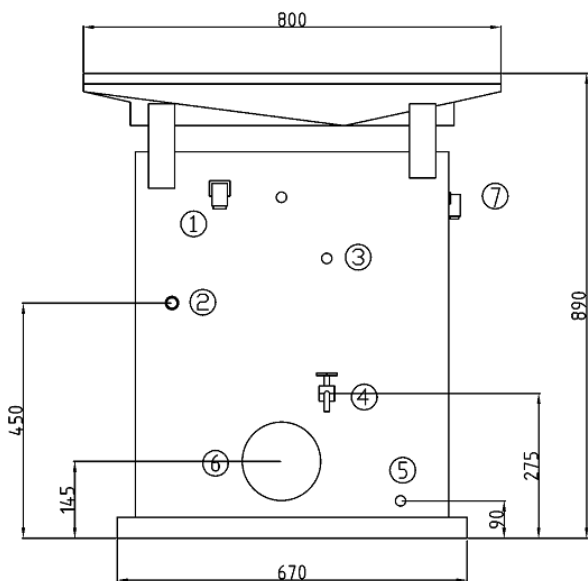
- list of hazards (taken from EN 1050 in reference to EN 292)
- implementation of essential safety requisites (Dir. Machines - att. 1, part 1)

**We hereunder list those hazards not completely eliminated, yet deemed acceptable:**

- during maintenance, low pressure spurts of steam are possible (in any case, suitable PPEs should be worn during such operation).
- Protection against direct and indirect contacts with steam should be provided for by the user.

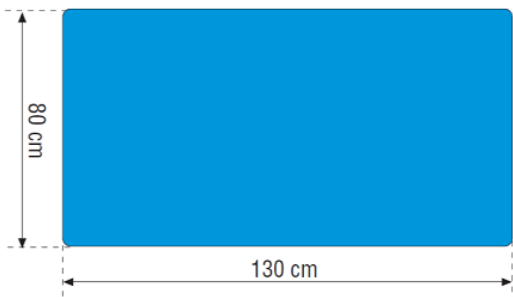
**11 DIMENSIONS AND DRAWINGS**

|  |   |
|--|---|
| <p>1 – Iron plug<br/>         2 – Power supply input<br/>         3 – 3/8" condensate return<br/>         4 – 3/8" boiler drainage</p> | <p>5 – Ø 12 O-ring holder water feeding input<br/>         6 – Ø 121 Fan air exhaust<br/>         7 – Sleeve board plug</p> |
|--|---|

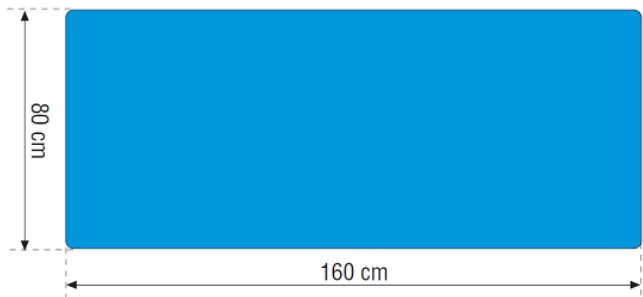


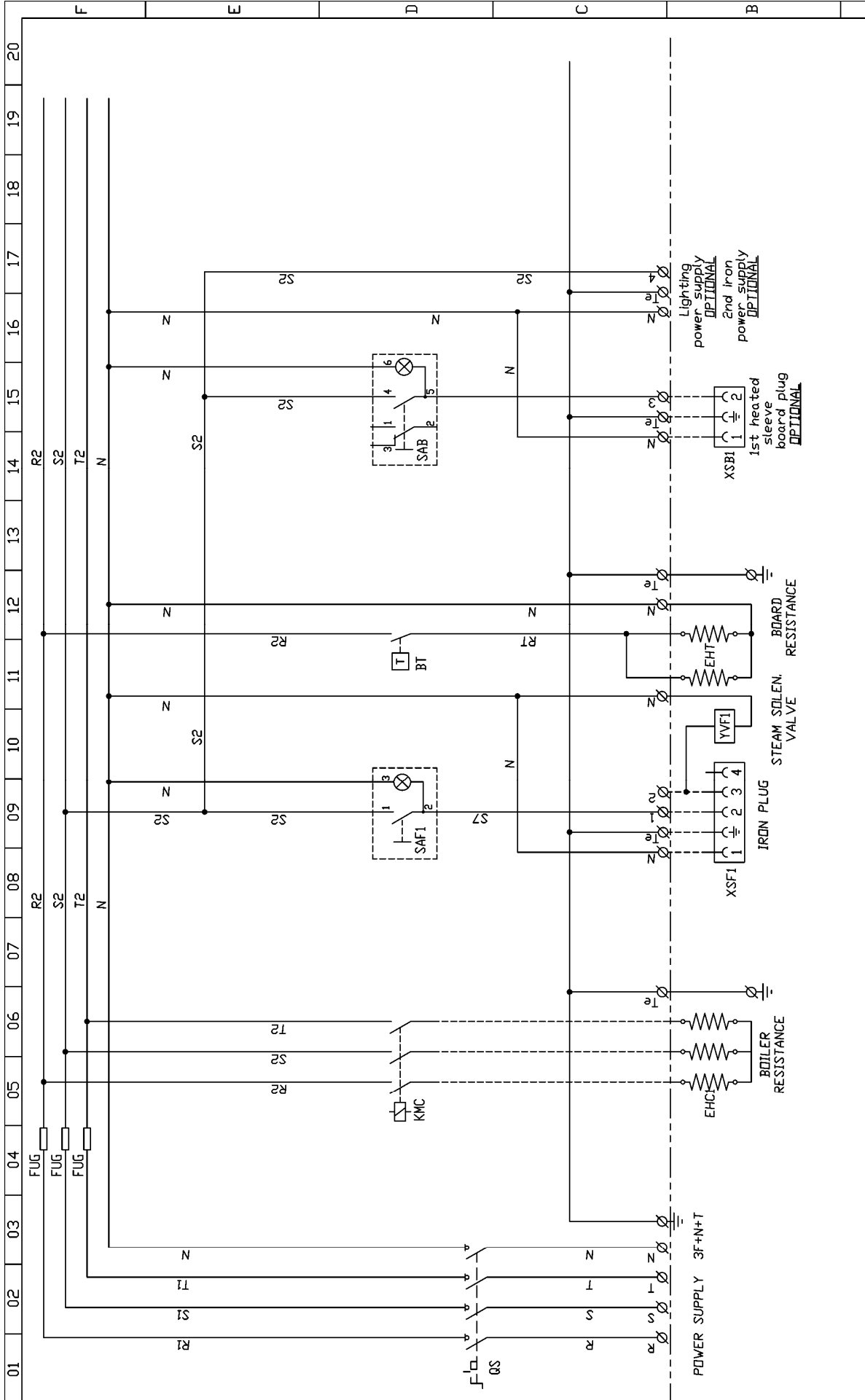
**BOARD VERSIONS**

**130x80**



**160x80**

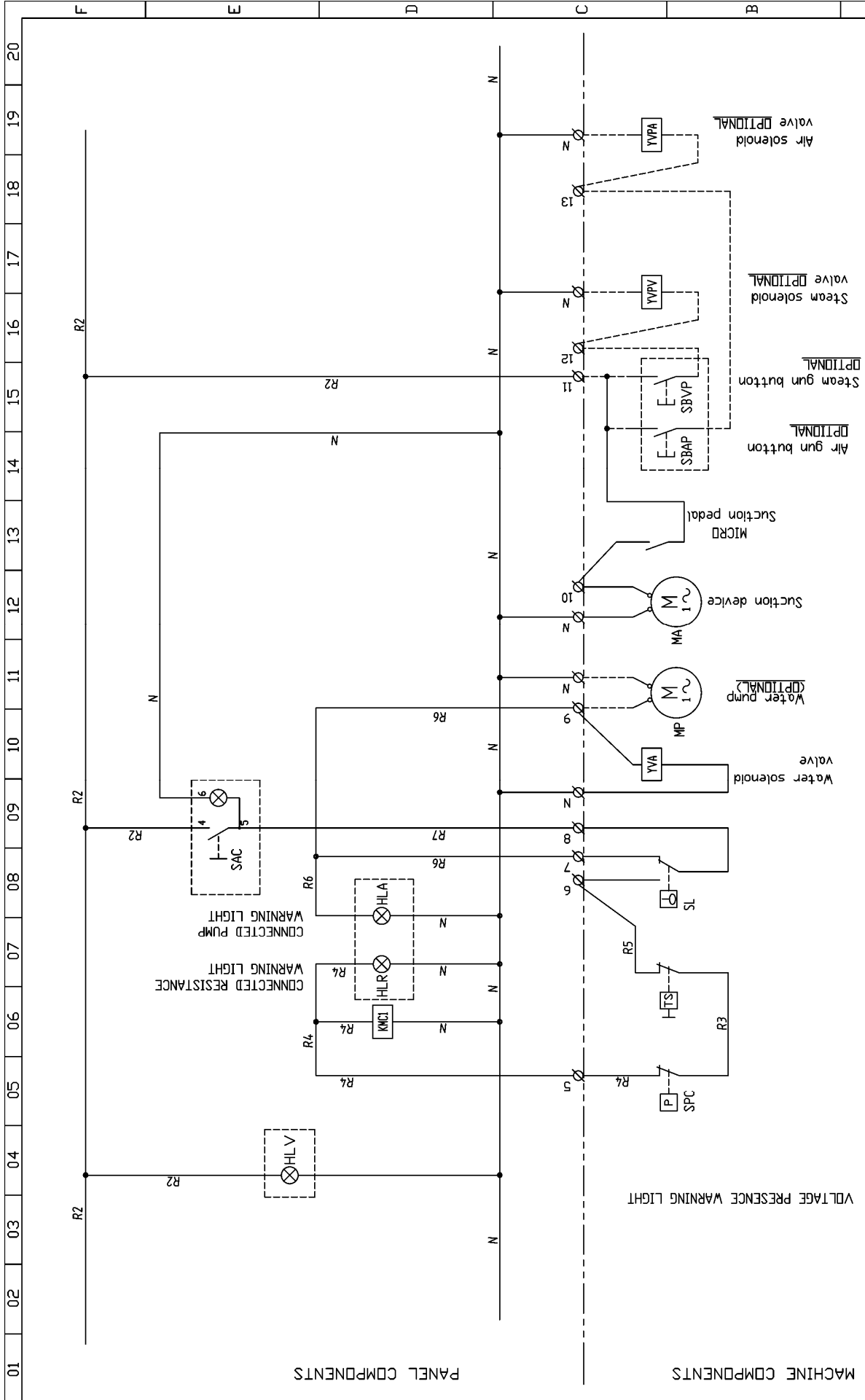




|                              |                      |   |                |                    |        |                                       |       |
|------------------------------|----------------------|---|----------------|--------------------|--------|---------------------------------------|-------|
| Denominazione<br>Description |                      | Eolo M with boiler<br>POWER SUPPLY 3F+N+T |                | TITOLO<br>Descriz. |        | SCHEMA ELETTRICO<br>ELECTRICAL WIRING |       |
| 3                            | Data                 | 28/06/99                                  | Dis. NG        | SE990628           | Foglio | 1                                     | Segue |
| 2                            | Dis. LC              |   |                |                    |        |                                       |       |
| 1                            | Modifiche<br>Changes | 06/99                                     | Firma<br>Sign. | 308037             |        |                                       |       |
|                              |                      |   | Appr.          |                    |        |                                       |       |

QUESTO DISEGNO VIENE CONSEGNATO ALL'ESPRESSIONE CONDIZIONE CHE NON VENGA SENZA NS/ CONSENSO NE RIPRODOTTO NE CEDUTO AD ALTRE DITTE

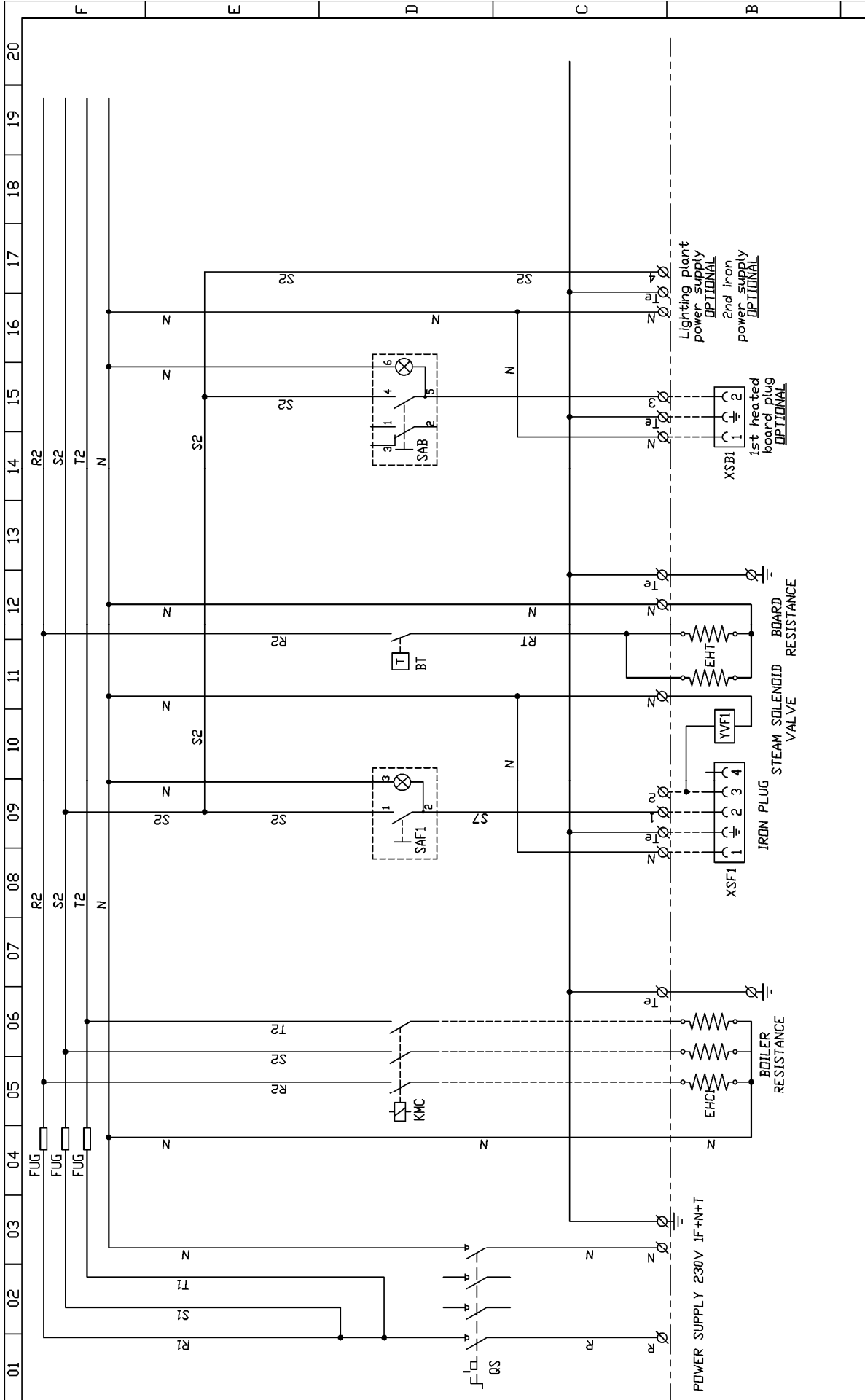
BT - board thermostat  
 QS - Breaker switch In = 40A  
 FUG - Fuse 20A GI  
 KMC1 - Contactor  
 SAB - Heated sleeve board switch (OPTIONAL)  
 SAF1 - 1st iron switch



|                              |         |   |                |
|------------------------------|---------|---|----------------|
| Denominazione<br>Description |         | EOLÒ M with boiler<br>POWER SUPPLY 3F+N+T |                |
| 3                            | Data    | 28/06/99                                  |                |
| 2                            | Dis. LC |   |                |
| 1                            | Cod.    | 30B037                                    |                |
| Modifiche<br>Changes         |         | 09/19<br>Sign.                            | 09/19<br>Appr. |

|                      |  |                                       |  |
|----------------------|--|---------------------------------------|--|
| TITOLO<br>Descriz.   |  | SCHEMA ELETTRICO<br>ELECTRICAL WIRING |  |
| Dis. NG<br>Dwg.      |  | SE99062B                              |  |
| Foglio<br>Sheet      |  | 2                                     |  |
| S. Giuliano Milanese |  | GHEPINI                               |  |

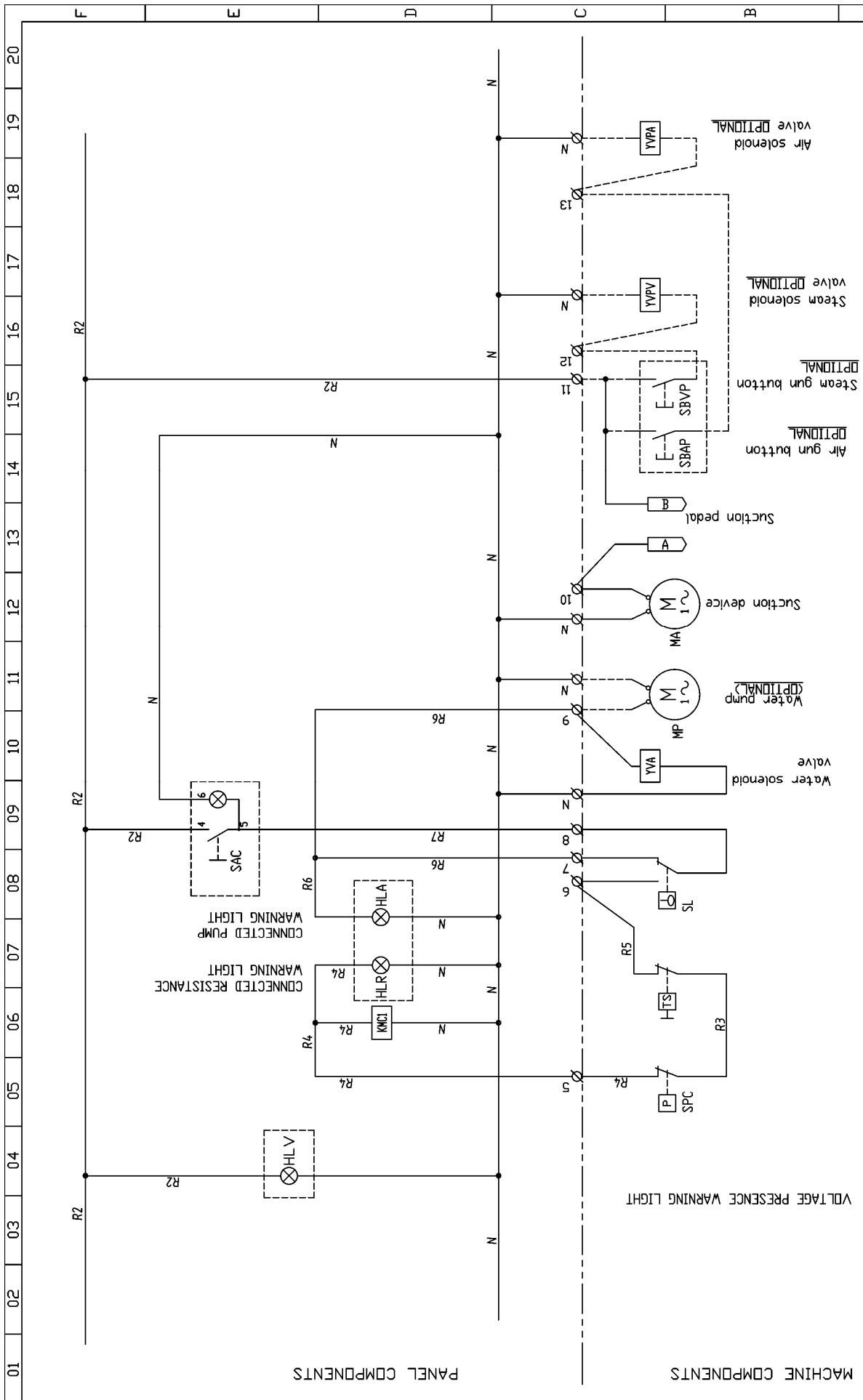
TS - Boiler safety thermostat  
 SAC - Boiler safety  
 HLV - Voltage presence warning light  
 SPC - Boiler pressure warning light  
 HLS - Boiler pressure switch  
 R3 - Boiler resistance command contactor - Code: 44A002  
 SL - Boiler levelmefer



|  |            |   |               |
|--|------------|---|---------------|
| <b>Denominazione</b><br>EOLO M with boiler<br><b>Description</b><br>POWER SUPPLY 230V 1F+N+T                                       |            | <b>TITOLO</b><br>SCHEMA ELETTRICO<br><b>Descriz.</b><br>ELECTRICAL WIRING |               |
| 3  | Data       | 28/06/99  | Dis. NG       |
| 2  | Dis. LC    |   | Dwg. SE990628 |
| 1  | Aggiornato | 16/03/11  | Foglio Segue  |
| Modifiche  | T&P        | Cod. 30B045   | 1 2           |
| Changes  | Firma      | Appr.   |               |
|  | 1999       |   |               |
| QUESTO DISEGNO VIENE CONSEGNATO ALL'ESPRESSIONE CONDIZIONE CHE NON VENGA SENZA NS/ CONSENSO NE RIPRODOTTO NE CEDUTO AD ALTRE DITTE |            |   |               |

QS - Breaker switch In=40A  
 FUG - Fuse 20A GI  
 KMC1 - Contactor  
 SAB - Heated sleeve board switch (OPTIONAL)  
 SAF1 - 1st iron switch



|                              |                  |  |               |
|------------------------------|------------------|--|---------------|
| Denominazione<br>Description |                  | EOLÒ M con caldaia<br>ALIMENTAZ. 230V 1F+N+T |               |
| 3                            | Data             | 28/06/99                                     | Dis. NG       |
| 2                            | Dis. LC          |  | Dwg. SE99062B |
| 1                            | Cod.             | 30B045                                       | Foglio Segue  |
| Modifiche<br>Changes         | Disegn.<br>Sign. | 12/98  | 2             |
|                              | Appr.            |  |               |

TITOLO  
Descriz. **SCHEMA ELETTRICO  
ELECTRICAL WIRING**

Dis. NG  
Dwg. SE99062B

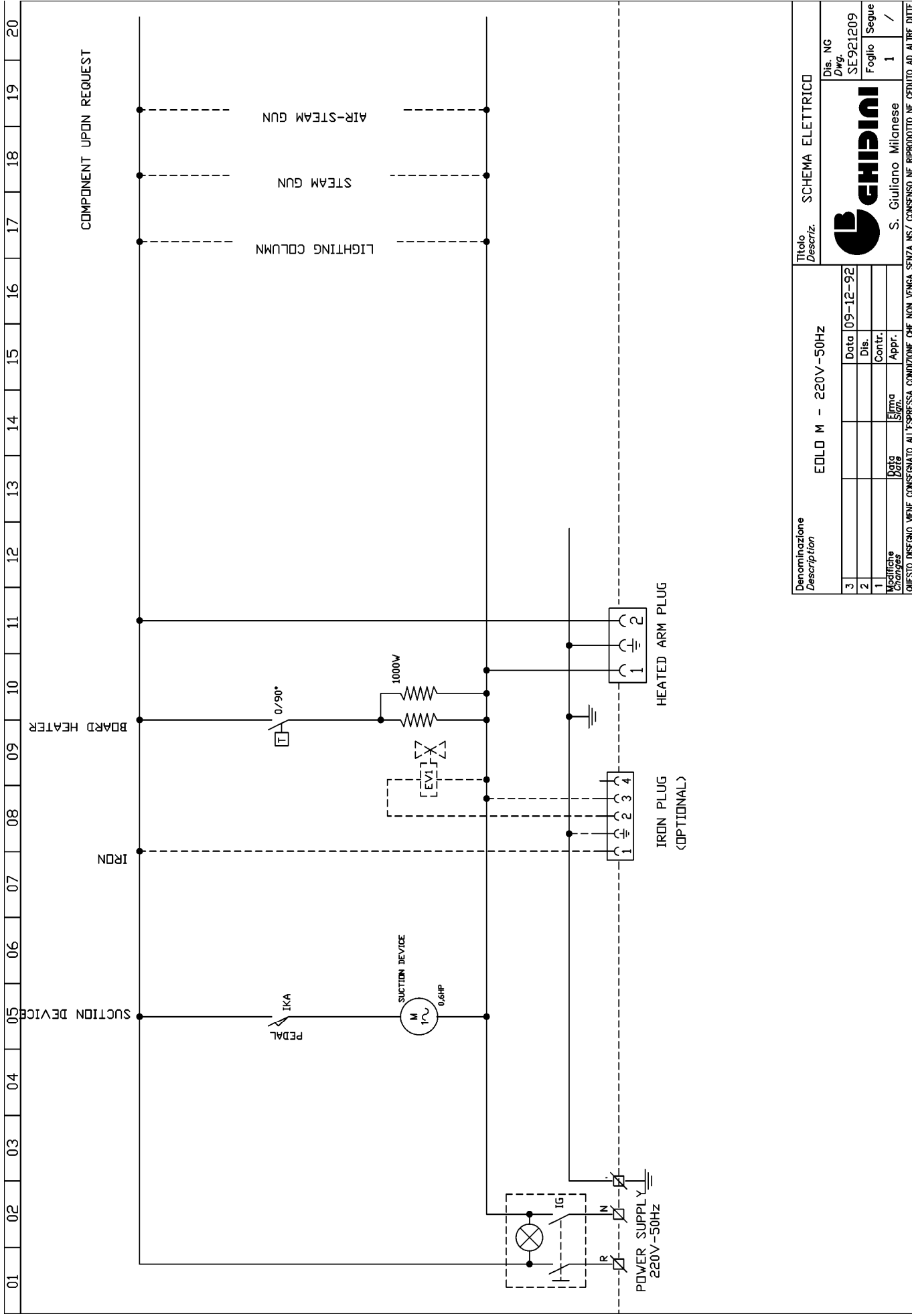
Foglio Segue  
2

**GHIPINI**  
S. Giuliano Milanese

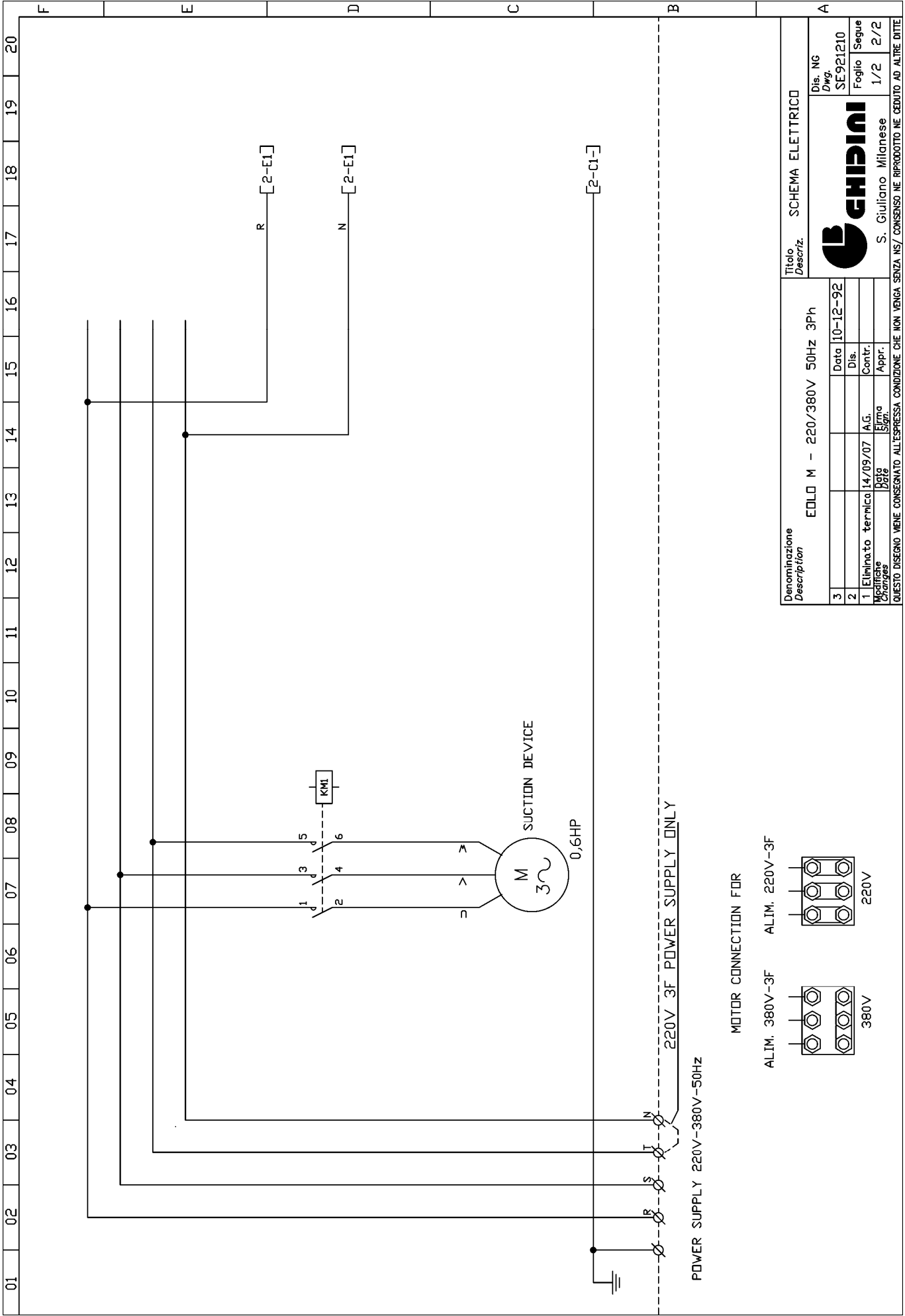
QUESTO DISEGNO VIENE CONSEGNATO ALL'ESPRESSIONE CONDIZIONE CHE NON VENGA SENZA NS/ CONSENSO NE RIPRODOTTO NE CEDUTO AD ALTRE DITTE

- TS - Boiler safety thermostat
- SAC - Boiler safety
- HLV - Voltage presence warning light
- SPC - Boiler pressure warning switch
- KMC1 - Boiler resistance command contactor
- SL - Boiler levelmeter





|  |  |                    |          |                    |                      |                  |  |
|--|--|--------------------|----------|--------------------|----------------------|------------------|--|
| Denominazione<br>Description   |  | EOLD M - 220V-50Hz |          | Titolo<br>Descriz. |                      | SCHEMA ELETTRICO |  |
| 3  |  | Data               | 09-12-92 | Dis. NG            | SE921209             |                  |  |
| 2  |  | Dis.               |          | Foglio             | Segue                |                  |  |
| 1  |  | Contr.             |          | Appr.              | 1 /                  |                  |  |
| Modifiche<br>Changes   |  | Data               |          | Firma              | S. Giuliano Milanese |                  |  |
| QUESTO DISEGNO VIENE CONSEGNATO ALL'ESPRESSIONE CONDIZIONE CHE NON VENGA SENZA NS/ CONSENSO NE RIPRODOTTO NE CEDUTO AD ALTRE DITTE |  |                    |          |                    |                      |                  |  |



01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20

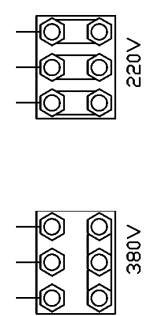
F  
E  
D  
C  
B  
A

|  |           |                            |          |                    |          |                  |  |
|--|-----------|----------------------------|----------|--------------------|----------|------------------|--|
| Denominazione<br>Descriptor  |           | EDLO M - 220/380V 50Hz 3Ph |          | TITOLO<br>Descriz. |          | SCHEMA ELETTRICO |  |
| 3  |           | Data                       | 10-12-92 | Dis. NG            | SE921210 |                  |  |
| 2  |           | Dis.                       |          | Foglio             | 1/2      |                  |  |
| 1  | Eliminato | termica                    | 14/09/07 | A.G.               | Segue    |                  |  |
| Modifiche  |           | Disg                       |          | Contr.             | 2/2      |                  |  |
| Changes  |           | Signa                      |          | Appr.              |          |                  |  |
| QUESTO DISEGNO VIENE CONSEGNATO ALL'ESPRESSIONE CONDIZIONE CHE NON VENGA SENZA NS/ CONSENSO NE RIPRODOTTO NE CEDUTO AD ALTRE DITTE |           |                            |          |                    |          |                  |  |



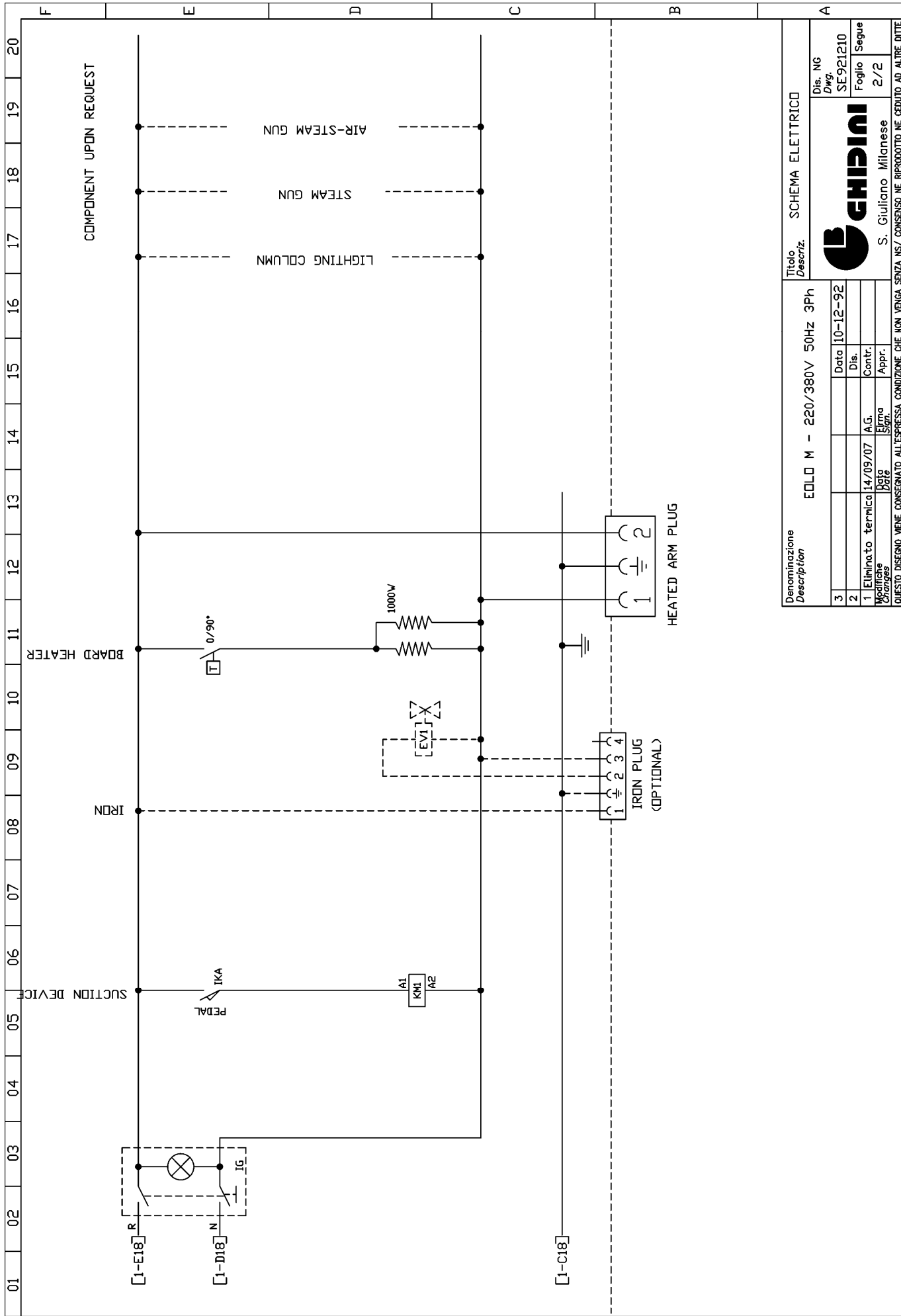
MOTOR CONNECTION FOR

ALIM. 380V-3F ALIM. 220V-3F



POWER SUPPLY 220V-380V-50Hz

220V 3F POWER SUPPLY ONLY



Denominazione  
Description

EDLO M - 220/380V 50Hz 3Ph

Titolo  
Descriz.

SCHEMA ELETTRICO

|   |           |          |
|---|-----------|----------|
| 3 | Data      | 10-12-92 |
| 2 | Dis.      |          |
| 1 | Eliminato | 14/09/07 |
|   | Modifiche |          |
|   | Changes   |          |
|   | Disg.     |          |
|   | Signa.    |          |
|   | Appr.     |          |
|   | A.G.      |          |

|                      |  |          |
|----------------------|--|----------|
|                      |  | Dis. NG  |
| S. Giuliano Milanese |  | SE921210 |
|                      |  | Foglio   |
|                      |  | 2/2      |
|                      |  | Segue    |

## 12 MAINTENANCE PROCEDURES

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In case of abnormalities or malfunctions, please contact the Technical Assistance for the relevant checks.

Perform periodical checks on:

| OPERATION                            | WORK HOURS |
|--------------------------------------|------------|
| Discharge boiler (*)                 | 40         |
| Clean water filter                   | 1,500      |
| Clean boiler and resistance elements | 2,500      |

(\*) Discharge the boiler when pressure is 1 bar to eliminate calcium deposits and impurities. When the machine is turned off, progressively open the boiler discharge valve. It is recommended to carry this operation out before starting work, not in the evening after work, since the new water sent into the boiler is rich in oxygen which, during the night, increases the corrosion process in the body.

Checking and/or maintenance activities on the machine require no special tooling. However, it is recommended to use tools and personal protections suitable for use in compliance with D. Lgs. 626/94 and in good conditions (DPR 547/55) to prevent damages to persons or parts of the machines.

**Make sure electric and hydraulic power supplies are disconnected before performing any maintenance intervention.**

## 13 DISPOSAL

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During machine maintenance or when dismantling it, do not leave contaminating parts around. Refer to local regulations for their correct disposal. When dismantling the machine, destroy the identification plate and any other document.

## 14 ORDERING INFORMATION FOR SPARE PARTS

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When requesting spare parts, always indicate:

machine model, serial number, number of parts needed, code number of the part (these can be found on the plate, in the machine's technical data and in the operator's and maintenance manual).

For electrical components whose voltage and frequency differ from V 220-380/50Hz (check these data on the plate of the malfunctioning component), report the exact voltage and frequency after the code.

The data, description and illustrations contained in this manual are in no way binding for the manufacturer.

The factory reserves the right to make all the changes that will be deemed suitable at any time, with no obligation to update this manual.

## 15 HANDLING AND TRANSPORTATION

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Before shipping the machine is accurately packed inside a cardboard crate. During transportation and storage, pay attention to the directions reported on the package. Upon receiving the machine, check whether the package is damaged or not and keep the machine in a dry place.

## 16 WARRANTY

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A 12-month maximum warranty is attached to all Ghidini products from the delivery date to cover manufacturing and material defects.

**This warranty is applied as hereunder indicated:**

In case of device malfunction, contact the Ghidini dealer and accurately describe the defect, indicating model, serial number, product code as well as the conditions of use of the product in question. Upon receiving the device, and based upon accurate analyses, Ghidini reserve the right to decide whether to repair or to replace the product. If the warranty is still valid, the Ghidini dealer will repair or replace it at our expenses.

If the returned product is not defective, Ghidini will be entitled to decide whether or not to charge the sustained costs (transportation, etc.) to the customer. This warranty will become null and void in case the damages or lesions reported on the products are the result of improper use, negligence, normal wear, chemical corrosion, installation non compliant with the expressly indicated instructions and failure to use it as per the manufacturer's recommendations. Any modification, tampering and alteration of the equipment or parts thereof without previous written authorization from Ghidini will relieve them from any liability and warranty obligation.

The parts subject to normal wear and the perishable ones are not covered under this warranty.

Anything not expressly indicated herein, as well as damages, lesions or costs due to defects of the product are excluded from the warranty.

The validity conditions of the Ghidini warranty are implicitly deemed accepted at the time of purchase of the product. Any modification or derogation to this warranty will become valid solely upon previous written authorization from Ghidini.

## 17 DECLARATION OF COMPLIANCE

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**Manufacturer:**

GHIDINI  
Company

Via Tolstoj, 24 – 20098 S. Giuliano Milanese (MI)  
Address

+39 -02 -98.24.06.00  
Telephone

**We hereby certify that:**

**The machine:**

Ironing board - **EOLO M** et **EOLO M** with boiler

- \* has been manufactured in compliance with the Directives of the EUROPEAN COMMUNITY COUNCIL on machines (98/37/CE) and on low voltage (BT 73/23/CEE).
- \* has been manufactured, as far as possible, in compliance with the following standards and harmonized technical specifications: EN 292-1/2, EN 1050, EN 982, EN 11200, EN 60947, EN 894-1/2.

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Managing Director

Roland Fleischmann

Product Manager

Name

GHIDINI S.R.L.

Company



September 2011

Signature

Date



Web site: <http://www.ghidini-gb.it> - E-mail: [sales@ghidini-gb.it](mailto:sales@ghidini-gb.it)