

Manufacturer	GHIDINI BENVENUTO s.r.l.
Product	Ironing board – BORA A / V
Year	2013
Certification	CE

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# **1 INTRODUCTION**

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This user's and maintenance manual refers to the "BORA A / V" ironing board.

It is possible to request the latest release to our Technical Commercial Department or by visiting our website 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. reject 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 BORA ironing board is available in two versions: BORA / A (with an automatic feeding built-in boiler) and BORA / V, without a boiler. In the A version, the board is fully autonomous and requires no supporting equipment to work. This station uses external sources of electric power and potable water to work. In the V version, it uses external sources of electric power and water steam.

The machine is fitted with a large universal working surface and an optional arm with a sleeve board, both padded, electrically heated and fitted for suction, a garment resting net, a control panel to adjust surface temperature and to activate the various working stations, a professional iron, automatic pressure control. It is also possible to fit as optional a stain removing board, a steam/air-steam gun and a pump for the automatic return of water in the boiler (BORA / A only,) an iron resting structure, with or without lighting, a rotating iron holder, a water spray device.

# **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 CHARACTERISTICS

	BORA / \	/		BORA / A				
Power supply	230V - 1	oh 50 Hz		230V - 1ph 50 Hz – 230-400V - 3ph 50 Hz				
Bower concumption	Iron	Arm	Board	Boiler	Iron	Arm	Board	
	0.83Kw	0.14-Kw	1-Kw	3.3-3.9-4.8-Kw	0.83-Kw	0.14Kw	1-Kw	
Suction motor	0.6 Hp			0.6 Hp				
Pump motor	Unavaila	ble		0.5 Hp				
Steam pressure	Unavailable			2.8 bar				
Steam consumption	Unavailable			5 ÷ 10 Kg/h				
Noise pressure level	< 70 dB(	A)		< 70 dB(Å)				
Operating / Storage temperature	+5 ÷ +50	°C / -20 ÷ •	+50 °C	+5 ÷ +50 °C / -20 ÷ +50 °C				
Operating humidity	90 % ma	х.		90 % max.				
Bora standard net dimensions	1500 x 6	00 x 1800 r	nm	1500 x 600 x 1800 mm				
Bora maxi net dimensions	1600 x 6	50 x 1800 r	nm	1600 x 650 x 1800 mm				
Net weight	Stand. 78	3 Kg - Max	ki 83 Kg	Stand. 100 Kg - Maxi 105 Kg				
O/a dimensions w/ packing stand.	1520 x 580 x 1120 mm			1520 x 580 x 1120 mm				
O/a dimensions w/ packing maxi	1750 x 700 x 1120 mm			1750 x 700 x 1120 mm				
Overall weight with packing	Stand. 94 Kg - Maxi 105 Kg			Stand. 116 Kg - Maxi 127 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:







Pos.	CODE	DESCRIPTION	Pos.	CODE	DESCRIPTION
1	Z14A01	Sleeve board	23	42H002	Suction fan
2	Z27P14	Arm padding	24	42A002	Suction motor
3	274203	Garment resting net	25	41G021	Suction motor condensator
4	173304	BORA suction pedal	26	44A012	Resistance remote switch
5	534247	Pedal return spring	27	43F017	Fuse box
6	36E006	Water inlet coupling	21	43F020	20A fuse
7	175005	Garment resting frame	28	43A038	Circuit breaker switch
8	52A010	Height adjustment handle	29	38S001	Safety valve
0	Z07A00	Steam gun	30	38W001	Water check valve
9	Z07C01	Air/Steam gun	31	39B036	Water solenoid valve
10	45A010	Board Thermostat	22	42B030	50Hz water pump (optional)
11	43A011	Iron switch + voltage warning light	32	42B031	60Hz water pump (optional)
12	43A020	Boiler switch	33	37A010	Water discharge tap
13	43A016	Water and resistance warning lights		212060	Resistance 3.3 Kw
14	35A015	Steam pressure gauge	34	212061	Resistance 3.9 Kw
15	25A001	Silicone pad		212063	Resistance 4.8 Kw
16	Z18D00	Iron model K	35	49A002	Level regulator
10	Z01L15	Iron model U	36	244236	Level regulator O-Ring
17	163409	Wire holding antenna	37	183270	Level regulator flange
17	264253	Wire holding antenna support	38	201003	Circuit breaker
18	52C003	Board displacement handle	39	Z27D00	Bora boiler
10	184466	STD board stem	40	39B012	Rotating Iron holder (optional)
19	184465	MAXI board stem	11	43G004	Steam solenoid valve
20	Z27P31	STD padding	41	431000	Iron socket
20	274123+274228	MAXI padding	12	43G005	Iron plug
21	45G012	Pressure switch	42	431000	Arm socket
22	340017	Suction spiral	43	534484	Lifting spring

# Tipologies of available working surfaces



### IRON HOLDER COLUMN AND LIGHTING



Pos.	CODE	DESCRIPTION	Pos.	CODE	DESCRIPTION
1	174009	Iron mod. U holder fitting	14	275010	Condensate separator isolator
2	534264	Spring	15	174520	Accessory holder
3	54A001	Balancer	16	174521	Accessory holder bracket
4	51X010	Ring	17	39H043	Steam solenoid valve coil for iron
5	174022	Hanger	18	39B012	Iron steam solenoid valve
6	56B002	Complete knob	19	175108	Condensate separator support bracket
7	43C009	36W - 230V lamp	20	46R005	0 cable clamp
8	43C007	Complete lamp	21	244244	30x7x3 O-Ring
0	174084	L=150 front lamp support	22	43K005	Switch box
9	174085	L=178 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	173041	Bora iron holder lower column
13	202031	Condensate separator	28	275005	Condensate separator insulator

### RESISTANCES Ø130



Pos.	CODE	DESCRIPTION	Pos.	CODE	DESCRIPTION
1	50A016	Screw M10x25		212061	Boiler resistance 3,9 kW
2	244236	O-Ring	3	212060	Boiler resistance 3,3 kW
				212063	Boiler resistance 4,8 kW

5	AIR-STEAM GUN code: Z07C01	3 2
		6
4		
		A
5	STEAM GUN code: Z07A00	3
		6
4		

Pos.	CODE	DESCRIPTION	Pos.	CODE	DESCRIPTION
1	Z07P12	Microswitch	4	07A002	Silicone steam supply pipe
2	Z07P13	White button cover	5	46B011	Electric wire
3	43A040	Red button cover	6	184537	Insert with fixed flat nozzle



Pos.	CODE	DESCRIPTION	Pos.	CODE	DESCRIPTION
1	25A001	Silicone pad	7	24A012	O-Ring
2	162156	Iron holder	8	51J005	washer 8x24
3	52A004	Knob	9	51L003	Dented washer A6
4	172157	Iron holder support	10	50F001	Screw TS M8x45
5	173435	Articulation	11	50A007	Screw TE M6x20
6	174495	Pin seat			

### ARM FITTING Ø60





Pos.	CODE	DESCRIPTION	Pos.	CODE	DESCRIPTION
1	//	//	9	604419	Bearing
2	06D016	Pipe Ø62 110°C	10	22K016	Stopper
3	184472	Screw	11	Z14H02B	Articulation L400
4	341014	Arm support elbow	12	46R010	Cable clamp
7	342110	Valve body			

### AUTOMATIC LEVEL CHECK

code 49A002-C

code 49A002-B





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

# EXPLODED VIEW OF SLEEVE BOARD Ø60 code: Z14A01



Pos.	CODE	DESCRIPTION	Pos.	CODE	DESCRIPTION
1	174357	Easel	8	213113	Resistance V230W90
2	43H007	Plug	9	45B001	Thermostat 80°C
3	224216	Grommet	10	173323	Plate
4	184158	Pin	11		
5	340019	Board	12	Z27P14	Padding complete with canvas
6	173343	Deflector	13		
7	224298	Terminal cover			



E	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
364273	Grommet for resistance axis	364278	Handle back self-threading screw	364287	Iron front handle fitting
364256	Iron electric wire	364279	Iron micro closing screw	364288	Iron back handle fitting
364274	Bulbe for pressure switch screw	364280	Micro holder 3,5 x 19 AU screw	364289	Iron screw cover caps
364257	Nickel-plated brass hose holder elbow	364281	Handle fitting M5 x 10 ZNB screw	364290	Spacing brass washer
364258	Finished iron plate	364282	Terminal box blocking screw	364291	Male-female brass spacer
364259	Adjustable thermostat	364283	Iron handle cover	364267	Complete micro for iron
364260	Manual reset thermostat	364284	Iron handle back	364292	Iron handle blocking screw
364261	Cork handle	364285	Iron button holder	45H006	Black bakelite knob
364275	Hanger for iron	364286	Iron button holder cover	364293	Under-handle washer for screws
364270	Cap for iron	364263	Iron upper button	364294	Under-handle washer for knob
364262	Iron wiring	364264	Iron lower button	364268	Electric wire grommet
364276	Insert for iron handle	364265	Iron hanger cover plate	364269	4-pole terminal box
364277	Thermostat fitting M4 x 22 screw	364266	Iron cable clamp		

### EXPLODED VIEW IRON "U" code: Z01L15



Pos.	CODE	DESCRIPTION	Pos	CODE	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	Gommet	7	43H009	llme 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

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

#### 6.1 UNPACKING

After choosing the 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 power wire section must be suitable for the machine's absorption and 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.

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

#### 6.4 WATER AND BOILER DISCHARGE CONNECTION

**Machine with built-in boiler only**. Connect the water pipework to the machine's  $\emptyset$  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.

**Machine without built-in boiler only (steam connection to small generator.)** Connect the water supply to the machine in the relevant G 1/4" threaded hole. We advise the use of a pipe with a minimum internal 6 mm diameter. Fit a gate valve on the pipework to isolate the machine from the plant. Maximum steam pressure should not exceed 5 bar. Connect the condensate return to the machine in the relevant Ø 1/4" hole. In this case as well, use a pipe with a minimum internal 6 mm diameter. Fit a gate valve on the pipework to isolate the machine from the plant. We recommend not to bend pipes at a square angle but to give them a 50-mm minimum radius curve. The pipework should have a constant slope, especially the condensate return one. Do not create siphons, do not fit couplings or gate valves whose diameter is lower than the pipework, do not create pipework longer than 2.5 m. The condensate return hole on the machine must be at least 150 mm higher than the water level in the boiler.

**Machine without built-in boiler only (steam connection to centralized plant)**. Derive from the upper part of the steam supply duct of the centralized plant a 3/8" Gas pipe and, close to the machine, fit a gate valve. Connect then to the steam inlet of the machine a Ø3/8" Gas pipe, using a pipe with a minimum internal 10-mm diameter. For the condensate return, make a pipework identical to the steam one and, close to the machine, fit a gate valve. On the condensate return coupling of the machine, Ø3/8" Gas, fit a filter-equipped condensate discharge followed by a check valve. Connect to the gate valve a pipe with a minimum 10-mm diameter. Maximum steam pressure should not exceed 5 bar.

# 7 OPERATION INSTRUCTIONS

#### 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 IRONING BOARD HEIGHT ADJUSTMENT

- Make sure the machine is turned off and that the ironing board is completely free of any object.
- Turn counterclockwise the two handles fitted on the side of the machine.
- Hold the wide part of the ironing board with both hands and raise or lower it as needed.
- Upon reaching the desired height, tighten the handles by turning them clockwise.

#### 7.3 ACTIONS TO PERFORM BEFORE ANY STARTING UP

- Check that the boiler's control and safety devices (pressure gauge, pressure switch and safety valve) are intact and that the automatic level indicator, the pump (if fitted) and the water solenoid valve are not blocked.
- Check that the boiler discharge valve is tightly closed.
- Set all the switches and board thermostat in OFF position.

#### 7.4 USE

- (Machine with boiler) Open the supply shutoff valve.
- (Machine without boiler) Open the steam and condensate return valves.
- Activate the general switch of the machine.
- Press the built-in boiler switch (water starts to enter the boiler), press the switch of the iron to which the heated board resistance is connected, the working board resistance, the lighting and the suction device.
- Adjust the board's and the iron's thermostats to the desired temperature.
- The water supply 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 operating pressure (check pressure on pressure gauge) and the relevant warning light automatically turns off.
- The generator is ready to supply steam.
- Wait for the boards and iron to reach the set temperature.
- The machine is ready for use.
- Press the right pedal to activate air suction on the board.
- Upon completing the work, turn the board off using the relevant buttons.

#### 7.5 USING THE ARM

• In working position, with the point of the board turned to the left, make sure the board-arm switching device is in "open arm" position (the knob on the right must be pulled and away from the board.) Grab the sleeve board and pull it over the board in working position.

#### 7.6 USING THE SUCTION BOARD

• Lay the garment on the board and press the suction pedal. The garment will stick to the surface under the force of the sucked air. Proceed with the ironing.

#### 7.7 USING THE IRON

- Turn on the iron switch on the machine.
- Use the knob to adjust the iron temperature as needed for ironing.
- 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.
- Press the switch on the side of the handle to let the steam out.
- Do not use steam when the iron's thermostat is below 110°C to prevent unpleasant and noxious leaks of condensate.
- When pipework exceed 2.5 m, keep the thermostat temperature rather high and do not perform the first spraying on the garment to be ironed, since the steam, going through the cold pipe, condensates and, if the plate temperature cannot spray it, water comes out.
- The steam quantity can be adjusted by means of the knob on the solenoid valve, turning it clockwise to reduce it and counterclockwise to increase it.

**N.B.:** Connect the iron's plug only to the relevant sockets on the machine, and never leave the iron turned on.

#### 7.8 USING THE "AIR-STEAM GUN" FOR STAIN REMOVAL

- Make sure suction has been switched to the arm.
- Bring the stain removal board in working position.
- 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 (all machines)				
PROBLEMS	PROBABLE CAUSES	SOLUTIONS		
The machine fails to	General switch deactivated	Check if the general switch is on and the fuses condition		
	Switch turned off	Turn switch on		
No steam comes out	Iron or boiler activation switches off	Turn switch on		
		Check if the microswitch fitted on the suction pedal is working, and replace it if needed.		
No suction on the	Suction motor not working	On single-phased motors, check condensator and replace it if needed		
boards		Check the pedal stroke and make sure the microswitch is pressed.		
		Check the motor and, if burnt, replace it		
	Pedal micro malfunction	Replace micro-switch		
The iron does not work	Electric connections and	Check if the iron switch on the machine control panel is ON		
The non does not work	power supply	Check if the iron's plug is correctly fitted in the right socket		
Little steam from iron Steam flow adjustments Check it valve is		Check if the steam flow regulation knob on the solenoid valve is not closed. Adjust as needed		
The heated sleeve board fails to warm up	Electric connections and regulations "Warning: do	The board is connected to the iron's switch. Check if it is ON.		

	not exclude thermostat. Resistance must always	Check if the board's plug is correctly set in the correct socket and check connection efficiency; "the continuous				
	be ON. Fire hazard	displacements of the board might damage them"				
		Check resistance continuity and, if burnt, replace it				
		Check thermostat efficiency				
		Board connected to the iron's switch. Check if it is ON				
The board does not	Electric connections and	Check if thermostat is working or is not on zero position.				
heat up	regulations	Replace it or set it to the desired temperature				
		Check resistance continuity, if burnt, replace it				

DIAGNOSTIC TABLE (Machines with boiler)						
PROBLEMS	PROBABLE CAUSES	SOLUTIONS				
Water warping light ON		Check if the water tap is open				
nump keeps loading	Water fails to enter the boiler	Check water solenoid valve opening				
without stopping		Check if there is pressure in the water circuit				
without stopping		Check if the water filter is not clogged				
Water warning light OFF, too much water in boiler	Water supply solenoid valve dirty or defective	Check or replace water supply solenoid valve				
Resistance warning	Leak at boiler discharge	Check if the boiler's gate valve is tightly closed				
light remains ON, boiler fails to reach operating pressure	Resistance burnt or covered with calcium	Check resistance condition				
	Pogulations or power	Check level bubble regulation				
Pump fails to work	problems	Check if thermal or condensator (single-phased motor), replace malfunctioning components				
	Pump blocked	Unblock or replace pump				
Steam is streaming	Pressure switch or safety	Replace pressure switch				
from boiler safety valve	valve	Clean or replace safety valve				

DIAGNOSTIC TABLE (Machines without boiler)					
PROBLEMS	PROBABLE CAUSES	SOLUTIONS			
Steam very humid even		Check if discharge fitted in exact position and not blocked			
after various ironing	Plant problems	Check if check valve has been fitted in the right direction			
Cycles		Check if there is no siphon on condensate return pipework			
		Check if generator produces steam at a 2-3 bar pressure			
Insufficient steam	Plant problems	Section of pipes used for plant too small			
		Check if there are clogging on plant (crushed pipes or half-closed gate valves)			
	Plant problem	Check if filter on condensate discharge is clean			
Vory humid stoom		Condensate discharge does not work regularly			
mixed to condensate		Check valve fitted after discharge remains open			
streaming from iron		Check valve on condensate return does not work regularly			
		Steam generator does not work regularly			

<u>WARNING</u>: 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.

# 9 PRECAUTIONS FOR USE

Read with attention the warnings and hazards associated to the use of an ironing board. The operator must know the machine's operation 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 put it on its support. The machine's working surfaces and metal plate remain hot for some 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**

Compliance checks to the essential safety requisites and to the provisions prescribed in the machines directive are to be carried out 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**

1 – Boiler discharge (3/8" F gas) 2 – Water supply (pipe sleeve 12) 3 – Power supply













# **12 MAINTENANCE PROCEDURES**

In case of abnormalities or malfunctions, please contact the Technical Assistance for the relevant checks. **Perform periodical checks as to:** 

OPERATION	WORK HOURS
Discharge boiler (*)	40
Clean water filter	1.500
Clean boiler, resistance elements, check level	2.500
Check safety valve, connections and couplings	1.500

(\*) 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 out this operation 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.

If the stain removal gun performances decrease, clean the filter net by dismantling the liquid inlet coupling, the nozzle and the cap. If, after these small maintenance operations the problem remains call a qualified technician.

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.

<u>Make sure electric and hydraulic power supplies are disconnected before performing any maintenance</u> <u>intervention</u>.

# 13 DISPOSAL

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

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), follow the code with the exact voltage and frequency.

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

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

# **15 HANDLING AND TRANSPORTATION**

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 store the machine in a dry place.

# **16 WARRANTY**

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

Manufacturer:	<u>GHIDINI</u> Company <u>Via Tolstoi, 24 – 20098 S. Giuliano Milanese (MI)</u> Address	_		
	<u>+39 -02 -98.24.06.00</u> Telephone	_		

We hereby certify that:

The machine:

Ironing board - BORA A / V

- 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.

Managing Director	Roland Fleischmann	
Product Manager	Name	

GHIDINI S.R.L. Company

Kolind Flandleur

Signature

May 2013

Date



Web site: http://www.ghidini-gb.it - E-mail: sales@ghidini-gb.it