Banks Water Boiler

(WB12)

Operation Manual

Please read carefully & keep for future reference

Thank you for purchasing a Banks water boiler. Please read this manual carefully to further understand the features, installation & operational details of this water boiler.

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Introduction & technical specification

Introduction

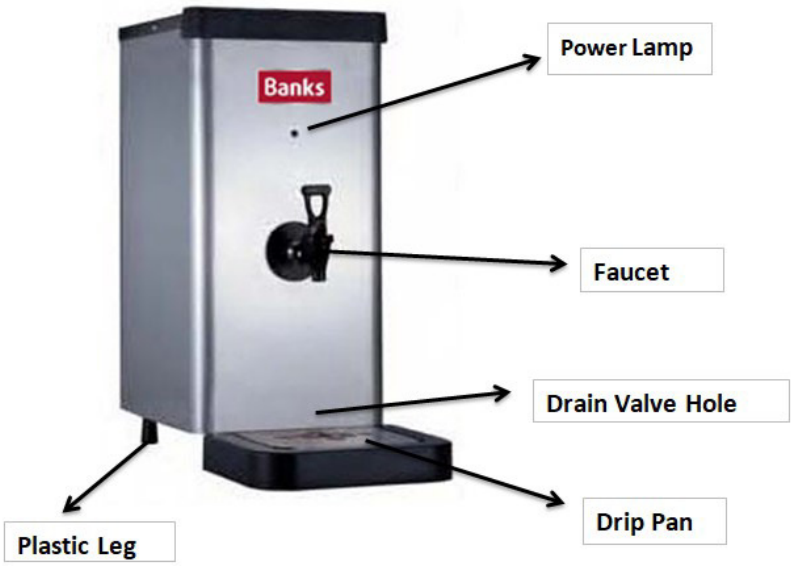
The water boiler is designed to automatically supply hot water for beverages such as tea, coffee, hot chocolate etc. It has a 10 litre draw off and can supply approx. 156 cups per hour. It is very compact and easy to operate. A removable drip tray is included.

Characteristics:

1. Small size, rapid draw-off.
2. Electronic temperature control.
3. Automatic filling of water.
4. Drip tray and water hose included.
5. Power rating off 3 Kw supplied on a 13 amp plug-top.

Technical Specification:

Model	Power	Voltage/Frequency	Dimension			Water Level Control mode
			Width (mm)	Depth (mm)	Height(mm)	
WB12	3KW	240V/50HZ	282	415	600	Probe



Installation

1. The equipment should located in a well ventilated environment, at least 80 mm away from flammable objects on the left and right hand sides and at least 150 mm away from flammable objects at the rear.
2. The water pipe outlet is situated at the rear of the water boiler.

Notice: Do not use a softener on the water supply to the water boiler

3. The water boiler uses a 13 amp, 240V 50 Hz electrical supply.
4. Disconnect the power supply to the boiler when not in use.

Operation

1. Connect the water inlet pipe to the water boiler, and turn on the water. Check the pipes and connections for water leaks.
2. Connect the power and check the green power lamp is on. The water boiler will fill automatically.
3. Normally, it will take approx. 30 minutes to heat up completely from empty.
4. Hot water can now be drawn off from the boiler tap.
   CAUTION: Always be aware that accidents can happen. Operators should be instructed on the correct use of the boiler to avoid damage to humans or equipment. Scalds or burns can happen when the boiler is not used correctly. A water drain valve is located at the bottom front of the unit. It is operated with a small flat head screwdriver. It is closed during normal operation. Do not open the drain valve when the unit is in use. Open the drain valve only when the power supply and water supply are turned off.
5. A steam release pipe is also located at the bottom front of the boiler. This is to provide pressure balance within the boiler. It also acts as an overflow outlet in the event of a boiler malfunction. Do not block the outlet at any time as this will alter the normal operation of the boiler and any damage caused will not be covered by warranty.
6. A safety overload device is fitted to the side of the boiler. This operates if the water boiler overheats. Once the safety device is operated, the unit will have to cool down before it can be reset. In this event, call a qualified service agent.

Maintenance

1. Clean the water boiler with a wet towel. Do not hose down the water boiler. Disconnect the power while cleaning.
2. Do not use any caustic chemicals or abrasive cleaning materials to clean the boiler.
3. Check water boiler periodically for leaks, damage to the power cable etc.
4. Check the quality of the water source before installation. If there is a bad water source (impurities, deposits, sand etc.), please fix a particle filter to the water supply. Do not use water obtained from water softener.

Safety & Warranty

Safety

1. Only trained personnel who are instructed in the operation procedure are allowed to operate this equipment.
2. This equipment is designed for boiling water. Do not use this unit for any other purpose. It is unsafe to do so.
3. Maintenance should be carried out only under the condition that power is disconnected by qualified service or maintenance personnel only.
4. If any malfunction happens, please disconnect power immediately and call your local authorized service agent.

Warranty

The warranty is void if any of the following applies:

- Miss-use of the equipment
- Incorrect installation or maintenance.
- Continue to use the equipment when a malfunction occurs.
- Damaged due to disregarding normal operational procedures.
- Incorrect parts fitted to the unit
- Hard or contaminated water
- The unit is not located on a solid, level surface
- The unit is connected to an incorrect electrical supply
- The boiler is used for any other purpose than for what it is designed for.

Trouble shooting

Symptoms	Cause	Solution
Not taking in water	Power disconnected	Check power and fuse in plug
	Water supply is turned off	Turn on water
	Water solenoid is damaged or blocked	Change solenoid
	Control PCB is damaged	Change PCB
The boiler overflows	Water level probes inside the boiler tank are damaged or coroded	Clean or change probes
	Signal wires of the water lever probes are damaged	Re-tighten signal wire
	Temperature probe damaged	Change temperature probe
	Electric box module is damaged	Change electric box module.
Lamp out of work	Lamp damaged	Change lamp
	Power disconnection or wire loosened	Check power on/off & circuit.
Not enough water temperature or do not make heat	Heating element damaged	Check heating element, change it if necessary
	Electric box module damaged	Change electric box module
	Temperature probe damaged	Change temperature probe
	Circuit malfunction	Check circuit

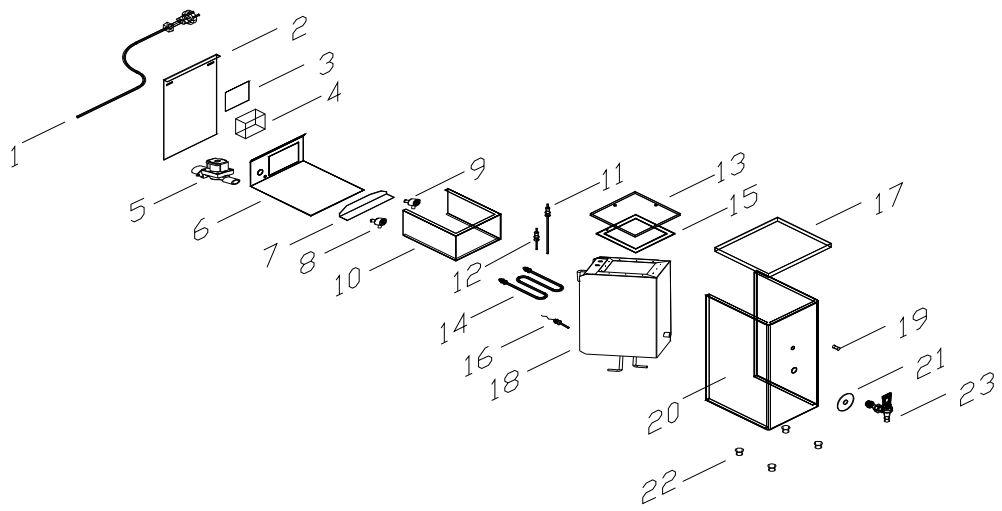
Remark

1. Only trained personnel are allowed to check & solve problems mentioned above.
2. Periodical check is supposed to be carried out in order to ensure its normal operation (at least one time / half year).

Notice

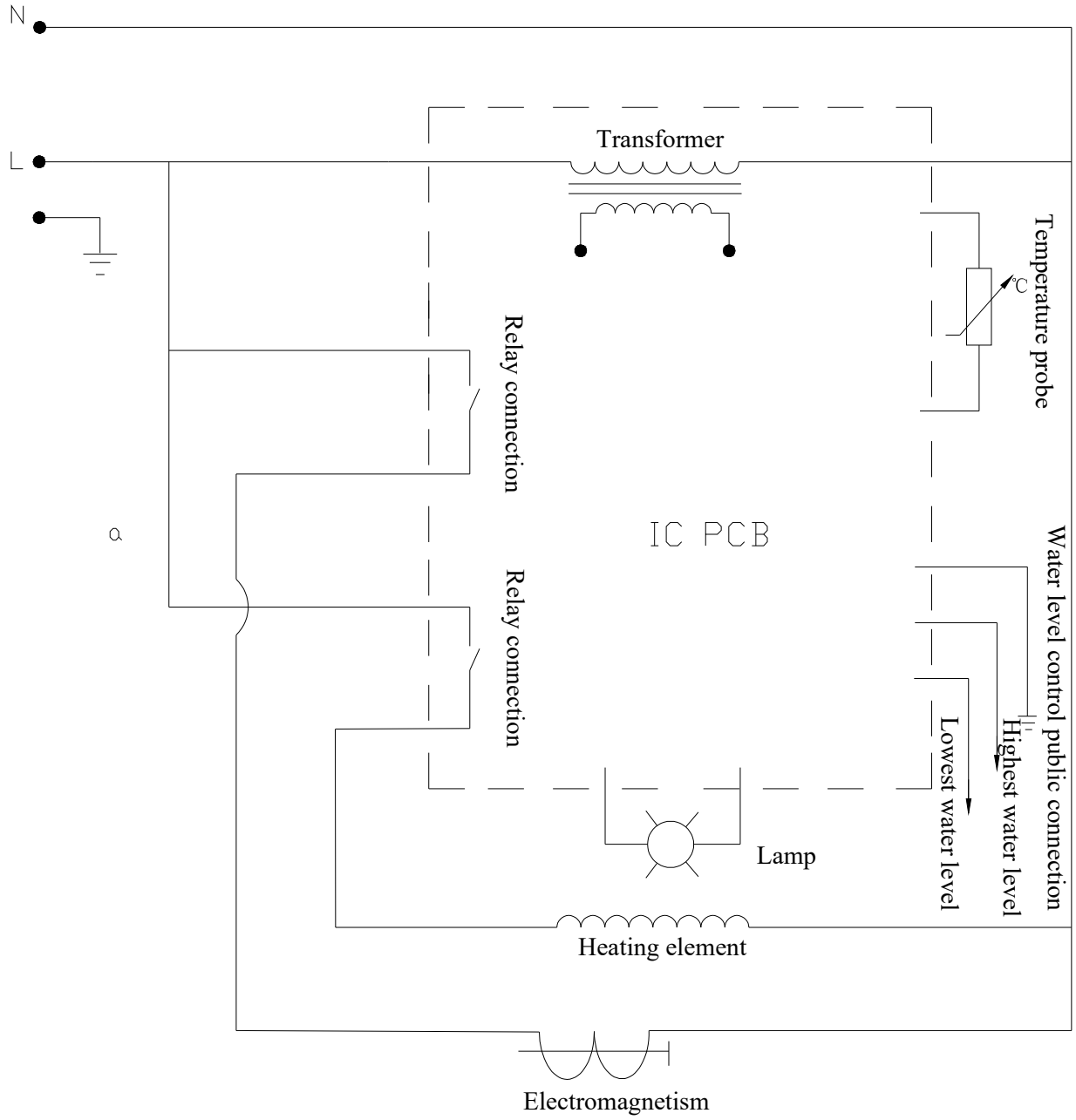
Due to our aim at continuous improvement, Guangzhou Brandon Equipment Manufacturing Co., Ltd reserves the right to alter design without prior notification to users.

Exploded view



Serial No.	Description	P/N	Qty	Serial No.	Description	P/N	Qty
1	Power Supply wire	F05061	1	13	Water Box Cover	11501005	1
2	Back guard	11501004	1	14	Heating Element	F01162	1
3	Maintenance Door	11501007	1	15	Gasket	E15155	1
4	Electric Box Module	S08003	1	16	Temperature Probe	E05131	1
5	Electromagnetic Valve Assembly	S08025	1	17	Top Cover Assembly	S08024	1
6	Bottom Plate	11501006	1	18	Inner Assembly	S08015	1
7	Connection Reinforce	11501008	1	19	Lamp	E09097	1
8	Steam Valve	B21001	1	20	Outer Enclosure	11501001	1
9	Drain Valve	B21002	1	21	Faucet Decoration	S08016	1
10	Inner Lower Closure	11501009	1	22	Plastic leg	E06377	4
11	Lowest Water Lever Probe	S08009	1	23	Faucet	WB-2P	1
12	Highest Water Lever Probe	S08011	1	24			

Circuit diagram



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