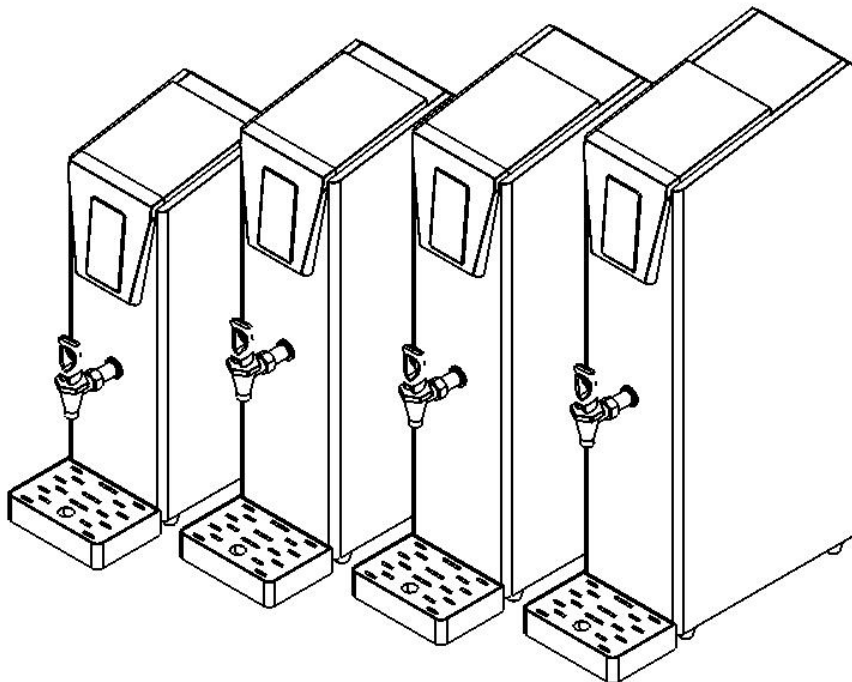




Auto-fill water boiler

BRU8 – BRU20

Instruction Manual

Thank you for choosing our Professional Blender. Please read the manual book carefully before using the equipment and use it only as specified. Please retain a copy of this manual and ensure each user reads and understands the instructions.

Using conditions:

Applicable water source: applicable for municipal water or other potable water,

PH between 6.5~8.5

Softened water to be used 0-60PPM (mg/L CaCO₃)

Enter water pressure: 0.2~0.6Mpa (Rate of flow≥4L/min)

Enter water temperature: 0~40°C

Input voltage: ~220-240V±10%

Humidity: 10~60% (non-condensing)

Ambient temperature: 0~40°C

Index

I. Safety instruction

II. Structure

III. Indicator display board description

IV. Working principle

V. Installation instruction

VI. Operation instruction

VII. Periodic inspection

VIII. Maintenance

IX. Specification

X. Electrical schematic diagram

I. Safety instruction

Warning:

1. Make sure the power supply coincide with the power transmission and distribution. The parameters of the power point should meet the requirements of power line.
2. The enter water pressure should be between 0.2-0.6Mpa (Rate of flow≥4L/min). If the pressure is below the range, the water maybe not inflow normally; If the pressure is above the range, it may damage the water inlet value.
3. Never alter the machine in any way, only the company specified spare parts can be used for repairmen.
4. Keep the machine away from gas supply or any other flammable and explosive objects.
5. Make sure the machine surface isn't contact with any flammable and explosive objects and used in a fire safety environment. Also, the water boiler should have at least 50cm distance from another machine.
6. Don't do any dismounting which isn't mentioned in manuals and confirm whether the ground wire has been connected fixed.
7. Don't touch the water faucets with your hands and be careful not to be scald.
8. The water boiler should be used indoor. Don't set it up outdoor or used in humid environment.
9. Don't use damaged power line for connecting. Before using the water boiler, please first replace the damaged spare parts to avoid leakage fault.
10. Before repairmen or maintenance, please first cut off the power and water.
11. Share ground wire with other machine is forbidden, so as to avoid being influenced by other machines' leakage fault.
12. Please confirm the silicone tube has connected to the air outlet fixed and unimpeded, if it is blocked or curved, the steam would not be exhausted, and the chamber pressure would be increased.

13. If the enter water pressure is higher than limit, or the water scale is too much, it may give rise to overflow problem, it need to install a magnetic value to control.

14. The water boiler must be installed and maintained by qualified electrician.

15. The water quality should reach the requirement as manual mention. If it isn't applicable for drinking, please set up a water filter.

Attention:

1. The silicone tube should be connected to the water outlet fixed to avoid overflow problem.

2. Please don't allow children to use the water boiler alone, in case they get scald.

3. Please use applicable municipal water, and don't fill in tea leaf.

4. Please avoid direct solar radiation which would highly increase machine temperature and influence the electronic control circuit or even damage it. So please keep the humidity between 10~60%, and the ambient temperature should be between 0~40°C.

5. The enter water temperature should be above 0°C, not freezing. If it is needed to use in a cold area, to discuss with manufacturer is necessary. If the chamber gets frozen, it would be cracked and the and the spare parts would be damaged.

6. Please don't use corrosive cleanser to wipe the water boiler and use hard objects to strike or scratch it.

7. When not using for a long time, before restarting it, please first empty the chamber and clean it, also have a check of the spare parts.

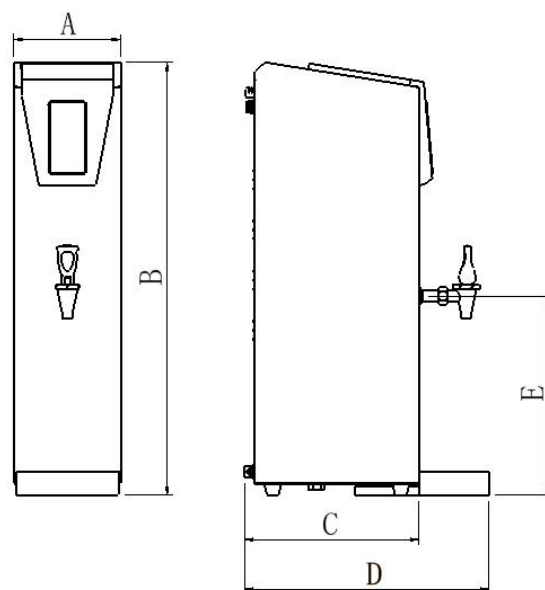
8. When water supply is cut off, don't use the water boiler, when water supply resume, please first empty and clean the chamber before using.

9. Don't soaking the water boiler or flushing the body and control board.

10. Please clean the scale off the chamber and thermos-probes regularly, or it may influence the machine.

11. Please clean the scale off the heating element, or it would shorten its service life, or even burn out.

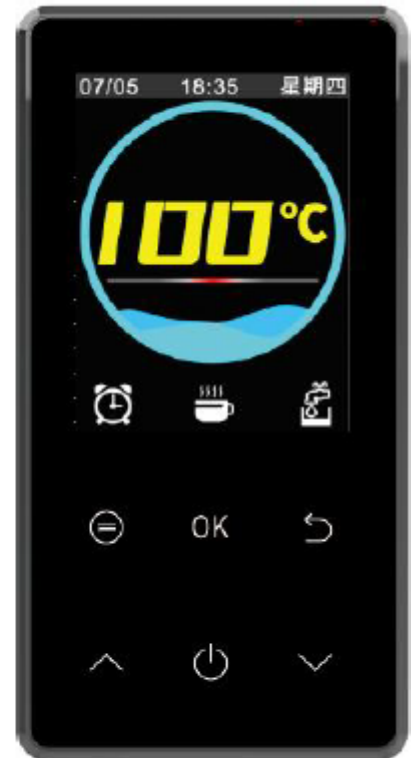
II. Structure



Model	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)
BRU8BK	182	562	258	378	230
BRU20BK	182	738	298	418	340

III. Indicator display board description

1. Power switch 
2. Return button 
3. Set button 
4. Plus button: to adjust numbers upward 
5. Minus button: to adjust numbers downward 
6. Confirm: to confirm or save the data 
7. Timer 
8. Drinkable sign 
9. Refill sign 



IV. Working principle

The technique of stepwise heating is used in this water boiler. The electrodes of each water level and the accurate thermistor send their digital signal to the microcomputer, then the computer control the heating element and the magnetic value by calculating the signals, also coordinate the water temperature and the water inflow, to make it only heat up one layer of water, boil it, then heat up another layer of water, form in a stepwise heating cycle. Take advantage of this technique, the repeated heating problem is eradicated, the productivity is highly increased but shorten the time to boil the water.

- The LED display the current temperature, also the working condition of the machine would be displayed on it.
- The PCB control the water temperature and water inflow, also it can keep the water warm for a long time.
- Under fully automatic working, all the outlet water must have been boiled only once, healthy to drink and safe to use.
- Safety alarm would be on if it has the danger of dry burning or if the temperature is too high.
- Under PCB control, the failure condition would be displayed automatically.
- The top cap is of simple design, it is convenient for the user to clean the chamber regularly.
- The back of the machine is easy to open, it need only 15 minutes to replace all the parts, easy to maintain.
- The structure is all in stainless steel, make of beautiful and easy to clean.

V. Installation instruction

1. The machine must be installed by qualified electrician, please have a complete inspection of the machine and have a read of this manual, and check whether the guarantee card and certification is within, keep them well in case of the maintenance during the warranty.
2. The water boiler should be place on a solid and flat surface, and ensure the environment around is draughty, the temperature is less than 40 °C and the humidity is less than 85%. To check whether the drainpipe is block or not, and keep the machine away from inflammable and corrosive gas and liquid.
3. Please check whether the water source conform to the national drinking water requirements. If the hardness of the local water is more than 300mg/L or the incrustation is serious after heating, please install a water filter, or it will influence the PCB control. If the tap water has a strong smell of chlorine, please install an activated carbon water filter, or the chlorine would be heated and could harm the boiler.
4. When installing new water pipe and water value, please choose the product which is make of heat-resisting material and is according to the health standard of drinking water. Also please have a check of the pipe to see if it has strange smell which may influence the quality of the boiled water. The water pressure should be within 0.2-0.6Mpa (Rate of flow $\geq$ 4L/min), if it is more than 0.6Mpa, it need to add a reducing value (please first clean up all the sundries in the new pipe before connecting to the machine, in case that it would block the inflowing and influence the magnetic value control).
5. The water boiler must have its dedicated power supply. Also the disconnect and leakage protector must be installed according to the product specification (the action current of the leakage protector is 30mA).
6. This product belongs to Type "I" appliance, the yellow and green double colour line in the power line is the "ground lead", it should be connected sturdy to the grounding device which is live up to electricity regulations of the state.

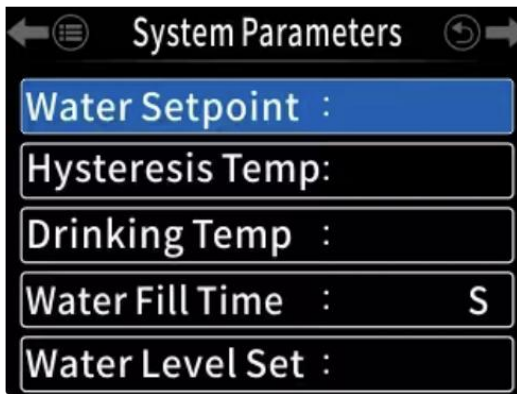
Warning: never connect the ground lead to water pipe and gas pipe.

VI. Operation instruction

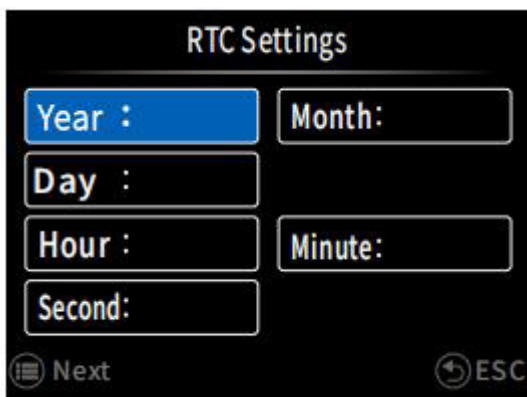
1. Press the power switch then long press the SET button to enter the data setting stage. To use plus or minus button to choose different setting stages.
2. Enter System parameter setting, to use the plus/minus buttons to enter the password: 168 for entering internal data setting stage; 123 for Chinese mode and 124 for English mode.



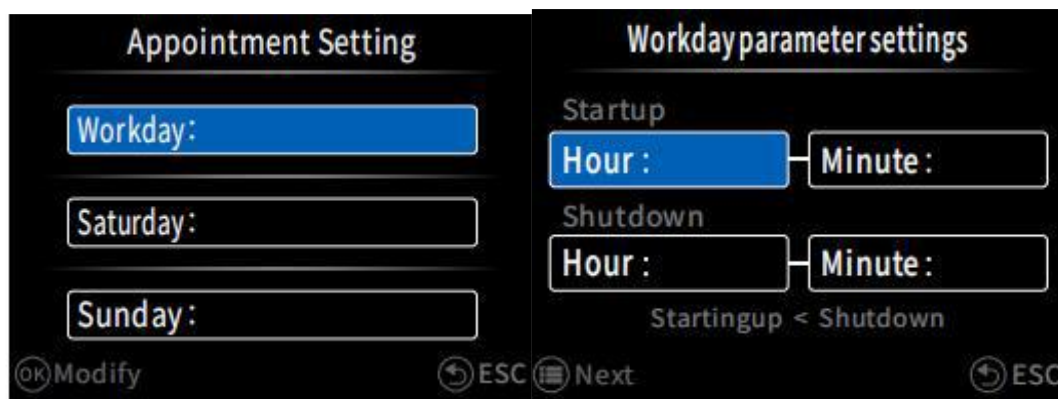
3. Enter password 168, you can adjust the preset data like water set point or drinking temperature: for example, if you want to set the output temperature as 92°C, then you can set the "water setpoint" as 95 °C , the "Hysteresis Temp" as 3 °C and the "Drinking temp" as 92°C.



4. Enter RTC setting, you can adjust the Date & time



5. Enter Appointment setting, you can make appointment for starting time and closing time of workday/Saturday/Sunday.



VII. Periodic inspection

Inspection item	Content	Standard
Connection	To check whether the plug or power line are hot or loosen.	Once a day
Drain outlet	To check whether the outlet is block	Once a month
Chamber cleaning	At least once a season, both chamber and surface should be cleaned, can use a nylon bundle to clean off the scale on the thermoprobe and heating element and loosen the nut of the drain outlet to drain out the waste water.	Once a season

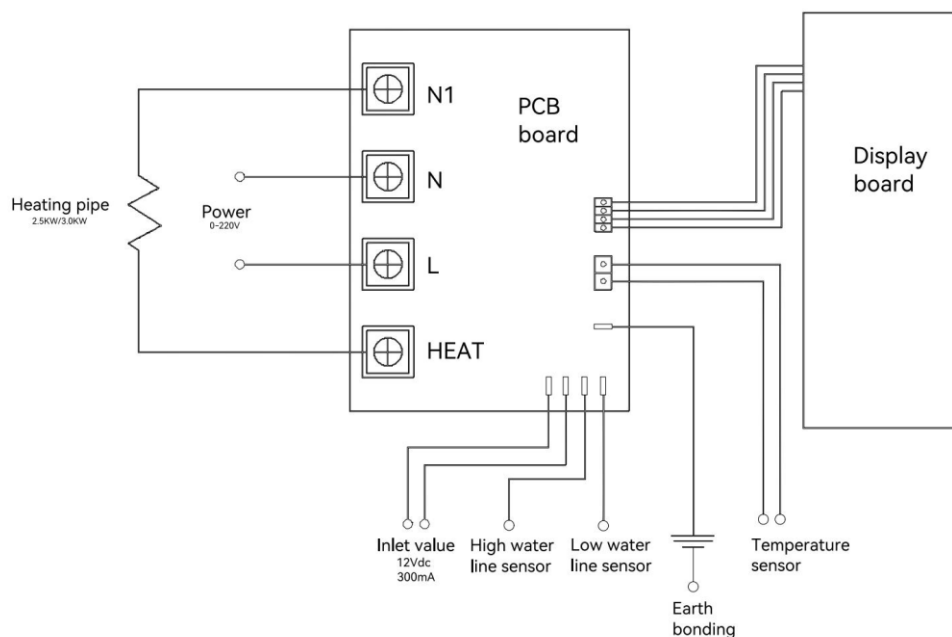
VIII. Maintenance

1. The machine should have regular checking, if not using during holiday and a long time, please turn off the power and water, and drain out all the water in the chamber to avoid the burn-in of the parts and extend their service life.
2. Pay attention on cleaning the thermos-probes and heating element, to avoid scaling influence the working system. Also the cleanser which sales in market can be used for cleaning, please combine with the actual circumstances to choose it. We suggest cleaning the machine once a season.
3. Open the top cover of the chamber, after cleaning or maintenance, it need to check whether the seal ring is damaged and fixed, then fasten it again, replace the top cover and try one or two heating cycle to ensure there is no steam leakage, or it may influence the using safety and damage the machine.
4. There is a drain outlet at the back on the machine, please drain out the water regularly according to actual circumstances. All the power and water should be cut off when operating, and please wait for a minute to cool down the water before drain then out. Don't knocking the machine or using sharp metal tools to clean chamber.
5. When the cool water flowing out through the overflow tube or the machine doesn't heating, please immediately stop using it and check whether the magnetic value is block or the heating element is damaged, then clean it or replace it.
6. The waterproofing grade of this machine is "IPXO", when cleaning its case, please first cut off the power, then wipe it with cloth. Corrosive cleanser can't be used, and don't flush it directly or soak it.
7. If the power wire is damaged and need to replace, please first cut off the main power, and replace with YZW Type heat-resistant and anti-corrosion power wire, any other power wire are forbidden.

IX. Specification

Model	Water	Power	Voltage	Frequency	Capacity	Productivity	Faucet
BRU8BK	0.2~0.6(Mpa)	2.5kW	220/240V~	50Hz	8L	19L/h	1
BRU20BK	0.2~0.6(Mpa)	2.8kW	220/240V	50Hz	20L	60L/h	1

X. Electrical schematic diagram



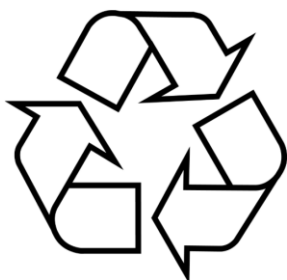
Caution!

Consult repair manual/owner's guide before attempting to install or service this product. All safety precautions must be followed. Dispose of properly in accordance with federal or local regulations.

Danger!

Risk of Electric shock, only trained technicians should Install, service or disconnect this appliance observing current codes of practice and in accordance with regional regulatory standards.

Disposal



EU regulations require refrigeration product to be disposed of by specialist companies who remove or recycle all gases, metal and plastic components.

Consult your local waste collection authority regarding disposal of your appliance. Local authorities are not obliged to dispose of commercial equipment but may be able to offer advice on how to dispose of the equipment locally. All packaging materials should be disposed of in an environmentally friendly way.

The cardboard may be re-used or recycled. The protective foil and the foam cushions are CFC-free.

Do not allow children to play with the packaging and destroy plastic bags safely.

Environmental protection



Discarded electric appliances are recyclable and should not be discarded in the domestic waste! Please actively support us in conserving resources and protecting the environment by returning this appliance to the collection centers (if available).

Compliance

Parts have undergone strict product testing in order to comply with regulatory standards and specifications set by international, independent, and federal authorities.

Products have been approved to carry the following symbols:



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