

STEP UP TO THE PLATE



CONTENDER AUTOFILL WATER BOILER IOL

BWA003



AIMS AND SCOPE

DESCRIPTIONS FOR SAFE USE AND MAINTENANCE OF THE PRODUCT. PLEASE READ AND KEEP THESE INSTRUCTIONS. INDOOR USE ONLY.

2. SAFETY WARNING

SAFETY COMPLIANCE: EVERY NOTE IN THIS MANUAL CONTAINS IMPORTANT SAFETY INFORMATION. PLEASE ADHERE TO THESE SAFETY INSTRUCTIONS AT ALL TIMES.

READ AND UNDERSTAND: IT IS CRUCIAL TO THOROUGHLY READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING THE EQUIPMENT. ENSURE THAT YOU HAVE A CLEAR UNDERSTANDING OF ITS FUNCTIONING AND SAFETY PROCEDURES.

PREVENT DRAIN CLOGGING: DO NOT OBSTRUCT OR CLOG THE DRAIN PIPE, OVERFLOW PIPE, OR OVERFLOW CHANNEL. KEEPING THESE COMPONENTS CLEAR IS ESSENTIAL FOR THE PROPER FUNCTIONING OF THE EQUIPMENT.

VOLTAGE VALIDATION: VERIFY THE POWER SUPPLY VOLTAGE BEFORE CONNECTING THE EQUIPMENT. THE VOLTAGE MUST FALL WITHIN THE SPECIFIED VOLTAGE RANGE, WHICH IS TYPICALLY +5% TO -10% OF THE RATED VOLTAGE. USING POWER OUTSIDE THIS RANGE CAN LEAD TO EQUIPMENT MALFUNCTION OR DAMAGE.

NO UNAUTHORISED MODIFICATIONS: NEVER ATTEMPT TO MODIFY THE EQUIPMENT PRIVATELY. UNAUTHORISED MODIFICATIONS CAN POSE SERIOUS RISKS, INCLUDING FIRE HAZARDS, ELECTRICAL SHOCK, AND EQUIPMENT FAILURE. ONLY QUALIFIED PROFESSIONALS SHOULD MAKE ANY CHANGES TO THE EQUIPMENT.

WATER PRESSURE CONSIDERATION: BE AWARE OF THE WATER PRESSURE IN YOUR ENVIRONMENT. IF THE WATER PRESSURE EXCEEDS 0.4MPA. IT MAY ADVERSELY AFFECT THE NORMAL OPERATION OF THE MACHINE. ENSURE THE WATER PRESSURE IS WITHIN THE RECOMMENDED RANGE FOR OPTIMAL PERFORMANCE AND SAFETY.

3. HOW THE AUTOFILL WATER BOILER WORKS

STEP I: POWER ON AND WATER SUPPLY

CONNECT THE WATER DISPENSER TO A POWER SOURCE AND THE WATER SUPPLY.

STEP 2: LOW WATER LEVEL DETECTION

THE FLUID POSITION CONTROL SYSTEM CONSTANTLY MONITORS THE WATER LEVEL IN THE DISPENSER. IT REMAINS AWARE OF THE WATER LEVEL, ENSURING THAT IT DOESN'T DROP TOO LOW.

STEP 3: WATER VALVE ACTIVATION

IF THE SYSTEM DETECTS THAT THE WATER LEVEL IS BELOW A CERTAIN THRESHOLD (A LOW WATER LEVEL), IT ACTIVATES AN **ELECTROMAGNETIC VALVE TO OPEN.**

STEP 4: WATER FLOW

WITH THE ELECTROMAGNETIC VALVE OPEN, WATER STARTS FLOWING INTO THE DISPENSER TO REPLENISH THE LOW WATER LEVEL. THIS PROCESS CONTINUES UNTIL THE WATER REACHES THE DESIRED LOW WATER LEVEL.

STEP 5: HEATING INITIATION

ONCE THE LOW WATER LEVEL IS ACHIEVED, THE WATER DISPENSER INITIATES THE HEATING PROCESS. IT MAY HAVE A HEATING ELEMENT (LIKE A HEATING COIL) THAT BEGINS TO HEAT THE WATER.

STEP 6: WATER VALVE CLOSURE

SIMULTANEOUSLY, WHEN THE HEATING PROCESS STARTS, THE WATER VALVE IS CLOSED. THIS PREVENTS MORE WATER FROM ENTERING THE DISPENSER DURING THE INITIAL HEATING PHASE.

STEP 7: TEMPERATURE MONITORING

THE SYSTEM MONITORS THE TEMPERATURE OF THE WATER DURING THE HEATING PROCESS.

STEP 8: REHEATING IF NECESSARY

IF THE WATER TEMPERATURE HASN'T REACHED THE DESIRED SET TEMPERATURE, THE INLET VALVE IS OPENED AGAIN, ALLOWING A CONTROLLED AMOUNT OF COLD WATER TO ENTER AND MIX WITH THE HOT WATER. THIS MIXTURE IS THEN REHEATED. THIS PROCESS CONTINUES UNTIL THE WATER REACHES THE DESIRED HIGH WATER LEVEL AND THE SET TEMPERATURE.

STEP 9: KEEP WARM STATUS

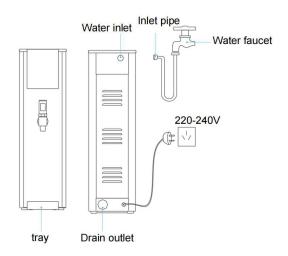
WHEN THE WATER FINALLY REACHES THE SET TEMPERATURE AND THE HIGH WATER LEVEL, THE DISPENSER SWITCHES TO A "KEEP WARM" STATUS. THIS MEANS THE HEATING ELEMENT CONTINUES TO OPERATE TO MAINTAIN THE WATER AT THE DESIRED TEMPERATURE.

STEP IO: KEEP WARM INDICATOR

TO INDICATE THAT THE WATER IS NOW IN A "KEEP WARM" STATUS, AN INDICATOR LIGHT OR DISPLAY ON THE WATER DISPENSER WILL BE TURNED ON.

4. PRODUCT INSTALLATION INSTRUCTIONS

- I. PLACE THE WATER DISPENSER ON A SOLID TABLE, AND PUT THE WATER TRAY AT THE BOTTOM IN FRONT OF THE WATER DISPENSER. KEEP THE BOILING WATER DISPENSER AWAY FROM CHILDREN TO AVOID SCALDING OR OTHER ACCIDENTS.
- 2. ONE END OF THE INLET PIPE IS SCREWED INTO THE WATER INLET ON THE BACK OF THE WATER DISPENSER.
- 3. THE OTHER END OF THE INLET PIPE IS SCREWED ON THE WATER SUPPLY, OR ON THE FAUCET WITH THE THREADED MOUTH.
- 4. TURN ON THE WATER SWITCH.
- 5. INSERT THE POWER PLUG INTO THE 220-240V SOCKET.



5. PANEL OPERATION INSTRUCTIONS





I. PRESS THE 'ON/OFF' BUTTON FOR 3 SECONDS TO TURN IT OFF, AND PRESS IT LIGHTLY TO TURN IT ON. WHEN THE WATER DISPENSER IS SWITCHED ON FOR THE FIRST TIME, THE MACHINE WILL HEAT AND BOIL WATER AUTOMATICALLY UNTIL THE KEEP WARM INDICATOR IS ON, INDICATING THAT THE WATER TEMPERATURE REACHES THE SET TEMPERATURE.



2. PRESS THE 'RESERVATION' BUTTON FOR 3 SECONDS TO OPEN OR CLOSE THE RESERVATION FUNCTION WHILE THE MACHINE IS ON. THE RESERVATION FUNCTION ALLOWS TO YOU SET THE WATER BOILER TO TURN ON AND OFF AT A PARTICULAR TIME THAT YOU SET.





3. PRESS THE 'UP' BUTTON FOR 3 SECONDS TO DISPLAY THE WATER LEVEL RESISTANCE VALUE WHILE THE MACHINE IS ON.

WATER QUALITY AT DIFFERENT PLACES SHOWS DIFFERENT RESISTANCE PARAMETERS (IT IS I ~ 18 FOR RUNNING WATER). IF USING PURE WATER CAN'T DETECT WATER RESISTANCE AND SHOW LACK OF WATER "ELL" IN A STANDBY MODE, THEN PRESS THE 'SETTING' BUTTON,

CHOOSE TO CODE, USE THIS PARAMETER TO ADJUST FOR TESTING WATER RESISTANCE.



4. PRESS THE 'DOWN' BUTTON FOR 3 SECONDS TO CHECK WHAT TEMPERATURE WAS SET.





5. PRESS THE 'RESERVATION' AND 'SETTING' BUTTONS TOGETHER AT THE SAME TIME FOR 3 SECONDS TO RESTORE FACTORY DEFAULT SETTINGS WHILE THE MACHINE IS OFF.



6. THE INDICATOR LIGHT IS ON, INDICATING THAT THE WATER HAS REACHED THE SET HEATING TEMPERATURE AND IS READY TO DRINK.



7. THE INDICATOR LIGHT IS ON, INDICATING THAT THE MACHINE IS HEATING.



8. THE INDICATOR LIGHT IS ON, INDICATING THAT THE MACHINE LACKS WATER, MEANS THE WATER SUPPLY IS CUT, OR THE WATER INSIDE DOES NOT REACH THE LOW WATER LEVEL (DISPLAY CODE ELL).



9. THE INDICATOR LIGHT IS ON, INDICATING THAT THE MACHINE IS REPLENISHING THE WATER.



IO. THE INDICATOR LIGHT IS ON, INDICATING THAT THE MACHINE HAS TURNED ON THE TIMING FUNCTION.



II. THE INDICATOR LIGHT IS ON, INDICATING THAT THE MACHINE IS ABNORMAL. PLEASE SOLVE THE PROBLEM ACCORDING TO THE MALFUNCTION CODE.

6. WORK OPERATION INSTRUCTIONS

- I. WHETHER THE POWER CORD IS CONNECTED TO A SPECIAL SOCKET OR LEAKAGE PROTECTION SWITCH AS REQUIRED.
- 2. THERE IS NO WATER LEAKAGE IN THE MACHINE.
- 3. WHETHER THE WATER OUTLET FAUCET IS ON.
- 4. THE MACHINE IS PLACED ON A STABLE SURFACE.
- 5. THERE ARE NO FLAMMABLE AND EXPLOSIVE ITEMS AROUND THE INSTALLATION OF THE WHOLE MACHINE.

7. SETTING REFILLING TIME

THE MACHINE HAS MADE DEFAULT SETTING THAT DURING REFILLING WATER, THE VALVE OPENS FOR I SECOND AND CLOSES FOR I7 SECONDS, UNTIL THE TANK IS FULL. IF USER WANTS TO CHANGE THE FILLING TIME, PLEASE SEE THE FOLLOWING INSTRUCTIONS TO CHANGE IT.

FOR EXAMPLE: SET FILLING TIME TO BE 2 SECONDS AND STOP FOR 17 SECONDS

IT IS I SECOND TO FILL WATER INTO TANK AT HIGH TEMPERATURE, THEN STOP I7 SECONDS (I SECOND = 20 CODE SET). IF NEED SET 2 SECONDS TO FILL WATER INTO TANK (2 SECONDS = 40 CODE SET) AT HIGH TEMPERATURE:

KEEP PRESSING FOR 3 SECONDS



IN STANDBY MODE, SELECT CODE 😅 , AND PRESS 😇 TO DISPLAY : 坑 , AND THEN PRESS 😇 TO CHOOSE





 $\square FF$ or stop and waiting for 20 seconds to jump back $\square FF$ automatically,



AND PRESS ULIGHTLY TO SET SUCCESSFULLY.

TEMPERATURE SETTING OPERATION







I, KEEP PRESSING THE



BUTTON FOR 3 SECONDS TO UNTIL THE DISPLAY SCREEN SHOW"





BUTTON FOR 3 SECONDS, THEN PRESS



TO CLICK THROUGH THE SETTING CODES, UNTIL YOU

SELECT"







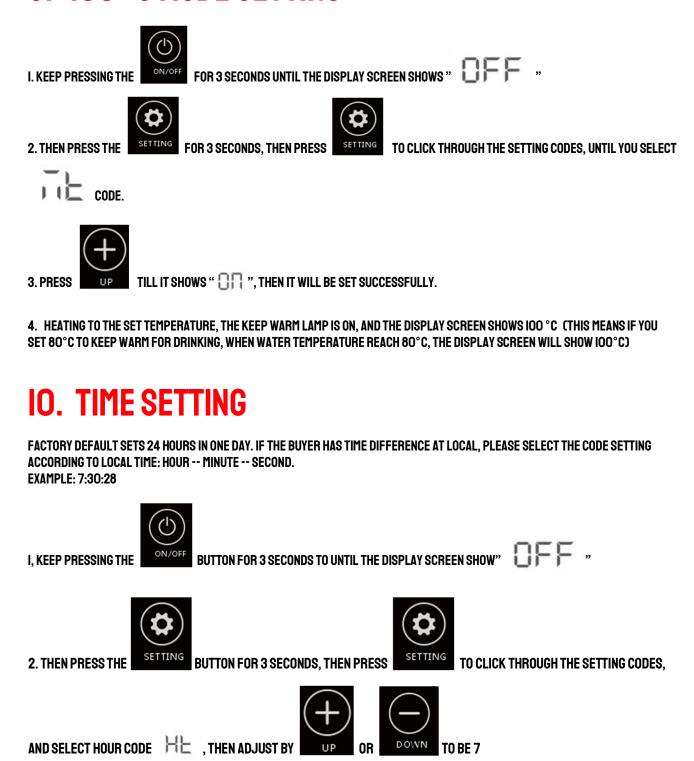
TO SET THE TEMPERATURE.

- 3, WAITING A FEW SECONDS AFTER SETTING TEMPERATURE, THE WATER DISPENSER WILL AUTOMATICALLY SHOW
- " OFF "ON THE SCREEN, THEN SWITCH ON, IT SETS SUCCESSFULLY.
- 4, WHEN THE WATER TEMPERATURE REACHES THE SET TEMPERATURE, THE MACHINE WILL BE IN KEEPING WARM STATUS.

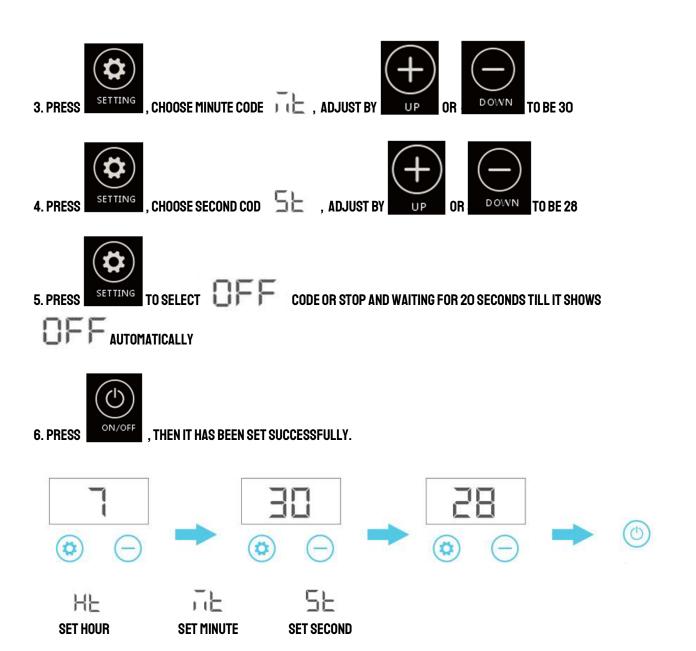
PLEASE NOTE: IN THE KEEP WARM STATUS, WHEN THE WATER TEMPERATURE COOLS DOWN BY -3°C, THE MACHINE WILL REHEAT AUTOMATICALLY. WHEN THE TEMPERATURE REACHES TO THE SET TEMPERATURE, THE MACHINE WILL STOP HEATING AND KEEP WARM AUTOMATICALLY. AT THE SAME TIME, THE HEATING LAMP WILL BE OFF AND THE KEEP WARM LAMP WILL BE ON.

THERE ARE TWO MODES FOR SHOWING UP TEMPERATURE, ONE IS REAL-TIME TEMPERATURE MODE, WHICH MEANS THE DISPLAY WILL ALWAYS SHOW THE REAL TEMPERATURE OF THE WATER INSIDE. THE OTHER IS 100 °C MODE, WHICH MEANS WHATEVER TEMPERATURE IS SET, WHEN THE WATER INSIDE HAS REACH THE SET TEMPERATURE, THE DISPLAY WILL ALWAYS SHOW 100°C.

9. 100 °C MODE SETTING







II. RESTORE FACTORY SETTINGS



FOR 3 SECONDS AT THE SAME TIME, ALL THE DISPLAY LIGHTS WILL BE ON AND THE DISPLAY SCREEN WILL RUN IN A CIRCLE, IT WILL RESTORE FACTORY SETTING SUCCESSFULLY.

12. RESERVATION OPERATION

KEEP PRESSING

FOR 3 SECONDS UNTIL THE DISPLAY SCREEN SHOW"

THEN PRESS THE

FOR 3 SECONDS, THEN PRESS

TO CLICK THROUGH THE SETTING CODES TO CHOOSE THE

RESERVATION FUNCTION SETTING CODE AS FOLLOWS:

НοП	Hour ON	Timer On: Hour(0-23)
ποΠ	Minute ON	Timer On: Minute(0-59)
HoF	Hour OFF	Timer Off: Hour(0-23)
ToF	Minute OFF	Timer Off: Minute(0-59)
HE	Hour Time	Daily Time: Hour
πŁ	Minute Time	Daily Time: Minute
SŁ	Seconds Time	Daily Time: Second

FOR EXAMPLE:

SET POWER ON TIME AT MORNING 8:30AM



BUTTON FOR 3 SECONDS UNTIL THE DISPLAY SCREEN SHOW"



2. THEN PRESS THE



FOR 3 SECONDS, THEN PRESS



TO CLICK THROUGH THE SETTING CODES,





AND SELECT CODE. $H \cap \Pi$ and adjust by

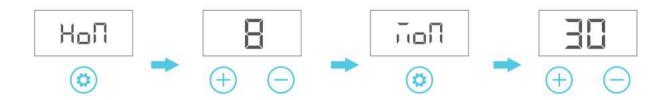




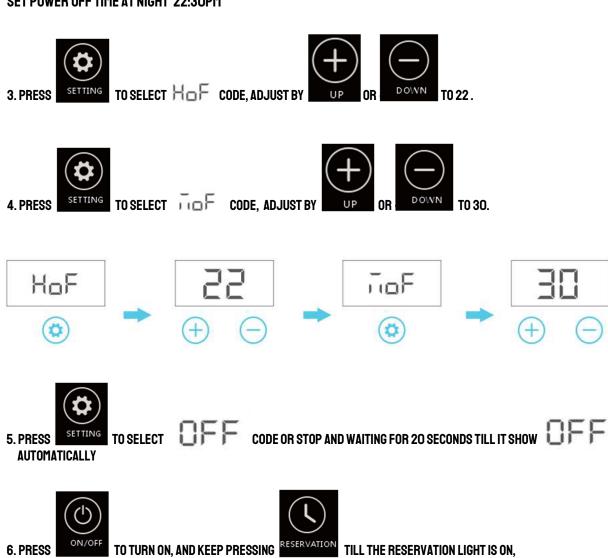
TO SELECT CODE , ADJUST BY







SET POWER OFF TIME AT NIGHT 22:30PM



7. SET RESERVATION FUNCTION, THE MACHINE WILL KEEP MEMORY FOR THE FUTURE.

THEN IT WILL BE SET SUCCESSFULLY.

13. DAILY CLEANING AND MAINTENANCE

HERE ARE THE MAINTENANCE INSTRUCTIONS FOR YOUR WATER DISPENSER:

EXTERIOR CLEANING:

CLEAN THE EXTERIOR BY USING A SLIGHTLY DAMP CLOTH. GENTLY WIPE THE SURFACE TO REMOVE DIRT AND STAINS. AVOID LETTING WATER DIRECTLY CONTACT THE EXTERIOR TO PREVENT DAMAGE.

FILTER SCREEN MAINTENANCE:

REGULARLY CLEAN THE FILTER SCREEN AT THE JOINT OF THE WATER INLET PIPE. THIS PREVENTS IMPURITIES FROM CLOGGING THE SOLENOID VALVE, ENSURING SMOOTH WATER FLOW.

INNER TANK CLEANING:

CLEAN THE INSIDE OF THE INNER TANK AT LEAST ONCE A QUARTER. THOROUGHLY CLEAN THE INTERIOR AND SURFACE, AND REMOVE SCALE BUILDUP ON THE ELECTRODE AND HEATER USING A CLEAN CLOTH.

SEWAGE OUTLET CLEANING:

PERIODICALLY CLEAN THE SEWAGE OUTLET TO PREVENT IMPURITY BUILDUP, WHICH CAN AFFECT THE DISPENSER'S PERFORMANCE. THIS CLEANING IS RECOMMENDED AT LEAST ONCE EVERY SIX MONTHS.

SCALE REMOVAL:

DUE TO THE NATURAL ACCUMULATION OF CALCIUM CARBONATE OXIDES DURING THE WATER HEATING PROCESS, CLEAN THE SYSTEM EVERY 1-2 MONTHS, DEPENDING ON LOCAL WATER QUALITY. HERE'S HOW TO DO IT:

- I. MIX WATER AND HIGH-PURITY WHITE VINEGAR IN A 2:1 RATIO.
- 2. POUR THIS SOLUTION INTO THE WATER TANK AND HEAT IT.
- 3. ALLOW IT TO BOIL, THEN LET IT SIT OVERNIGHT.
- 4. THE NEXT DAY, DISCARD THE SOLUTION AND RINSE THE TANK WITH CLEAN WATER.

14. UNIT SPECIFICATIONS

MODEL	BWA003
RATED VOLTAGE	220-240 V
RATED FREQUENCY	50-60HZ
RATED POWER	3000W
WATER OUTPUT CAPACITY	30L/H
WATER INPUT PRESSURE	0.05-0.4 MPA

NOTE: ALL THE PARAMETERS OF PRODUCT PERFORMANCE ARE THE TEST RESULTS UNDER STANDARD TEST CONDITIONS. DURING THE ACTUAL USE. THEY MAY CHANGE WITH DIFFERENT CONDITIONS.

15. COMMON FAULTS AND SOLUTIONS

MALFUNCTION CODE	MALFUNCTION REASON	SOLUTION
ELL	WATER SHORTAGE IN TANK, WATER Flows Slowly, Low Pressure of Water	WHEN THE MACHINE IS JUST TURNED ON, THE WATER TANK IS SHORT OF WATER. ELL CODE WILL APPEAR IN THE PROCESS OF WATER FILLING. PLEASE OPEN THE WATER OUTLET FAUCET AND CHECK WHETHER THE WATER INLET PRESSURE IS SUFFICIENT.
	THE WATER LEVEL RESISTANCE IS SMALL AND CANNOT BE DETECTED	SET WATER LEVEL RESISTANCE.
ErX	OPEN-CIRCUIT OR SHORT CIRCUIT OF TEMPERATURE SENSOR	PLEASE CHECK WHETHER THE SENSOR LINE IS DISCONNECTED OR THE MAINBOARD IS MALFUNCTIONING.
Er l	THE WATER INSIDE THE TANK CANNOT REACH LOW WATER LEVEL AFTER FILLING WATER FOR 20 MINUTES	THE WATER PRESSURE IS LOW OR THE INLET VALVE IS BLOCKED BY DEBRIS OR STOPPED BY A SHORT CIRCUIT. 1) FIND A SUITABLE WATER SUPPLY PRESSURE 2) CLEAN UP SCALE REGULARLY 3) CHECK WHETHER THE INLET SWITCH IS TURNED ON 4) CHECK WHETHER THERE IS NO WATER IN YOUR LOCAL AREA
E-2	THE WATER CANNOT REACH THE SET Temperature after heating for 35 Minutes	THE WATER PRESSURE IS LOW OR THE INLET VALVE IS BLOCKED BY DEBRIS OR STOPPED BY A SHORT CIRCUIT. 1) FIND A SUITABLE WATER SUPPLY PRESSURE 2) CLEAN UP SCALE REGULARLY 3) CHECK WHETHER THE INLET SWITCH IS TURNED ON 4) CHECK WHETHER THERE IS NO WATER IN YOUR LOCAL AREA
NO DISPLAY	MALFUNCTION ON FAULT OR Mainboard, or Thermostat Dry Heat Protection	I)CHECK WHETHER IT CAN HEAT AND BOIL WATER NORMALLY AFTER TURNING ON THE MACHINE. 2)CHECK WHETHER THE CONNECTION OF THE DISPLAY SCREEN IS LOOSE OR DISCONNECTED 3)CHECK WHETHER THE MOTHERBOARD IS MALFUNCTIONING. 4)CHECK WHETHER THE MANUAL RESET THERMOSTAT WHICH IS A BLACK BUTTON CAN BE PRESSED OR NOT, IF THE THERMOSTAT CANNOT BE PRESSED, WHEN THE TEMPERATURE COOLS DOWN TO THE TEMPERATURE CONTROL RANGE, PLEASE PRESS THE BLACK BUTTON TILL YOU HEAR THE "TAP" SOUND.







STEP UP TO THE PLATE