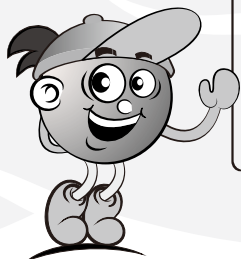**Reminder :** the company reserves the right to make change on the product appearance and accessories and no further notice is given.The dimension and color of any product are subject to those of the material object.

USER MANUAL

E-S338BTA

Reminder:

    All appearance pictures for parts and components of this product in this Installation and Operation Manual are for reference only. The appearance of the actual product shall be taken as the standard, while the operation methods are the same.

Preface

Write the specification of the content is to help the installation and use of personnel in the proper standard operation and installation of the control system, safety and product user people life period and ensure.

Security considerations

⚠ Danger: This symbol is used to remind users that the product bears dangerous voltage!

⚠ Alarm: This symbol is used to remind users that the product is attached with important operation and maintenance description!

【Warning】

1.To avoid fire or electric shock,please ensure that controller is not exposed to rain or wet surroundings，As controller contains accessories with dangerous high-voltage, please do not open the cover .

2.Without permissions from controller manufacturer and authorized party,any changes or disassembly of this controller will probably bring inconvenience in use to user.

【Notice】

1.Please read this manual thoroughly to know to use this controller correctly.

2.After reading，please keep this manual properly for later reference，if any maintenance needed,please contact local dealer or technical service center of this company.

【Use Instruction】

1.Please remove power plug from the socket if the controller is not used for long.

2.Before power switches on，please ensure that all hook-ups and power wires are absolutely in correct connection.

3. Please keep this controller in dry places with good ventilation.avoid approaching heat source.and keep away from direct sunshine，mechanical vibration,wet and dusty places as well as other heat radiating objects

【Beneficial Warning】

1.TO prolong the use life of this controller，intervals between continual on and off must be more than 30 seconds.

2.Please shut down power after use.

3.Power supply adopted should match voltage specification marked on the controller，Otherwise it becomes unusable and can even burn out the controller.

4.When installing the controller，please check cautiously whether the loaded parameters corresponds to those required by the controller. Otherwise it becomes unusable and can even burn out the controller.

5.If occasional crash appears，please restart it.

Install and use the matters needing attention

    To guarantee normal use of products and personal safety of users and prolong use life of products,please read carefully the following the following requirements before use：

    1.Users must perform load installation in strict accordance with circuit drawing and parameters offered by our company

    2.External radio frequency signal should not be too strong，for fear of burning out the system.

    3.Controller should be provided with good and reliable grounding protection.

    4.Should strictly check the power control box. Confirmation before the use of elect ricity.

    5 .Should not be illegal manufacturers recommend electrical equipment connected to the controller, and prohibit the unauthorized disassembly, modification have been se aled wiring or charging power supply inserting box wiring and plug.

    6.Connect the line power supply box should press connector number and specifica tion corresponding socket, output line can not be short circuit.

    7.After use cut off electricity for the whole system as long energized state will quick en system's aging.

    8 .Installation of controller should be performed by qualified personnel according to Installation Instruction.

    9 .For there is no repairable elements in controller,donot attempt any improvement，Because of dangerous high voitage in controller,maintenance and edjustment must be carried on by professionals.

    The company is not held responsible for any results caused by users' violation of the above-mentioned operation specifications.

Special statements

    1.Any repair to this product must be done by the qualified service personnel design ated by the manufacturer or the dealer, otherwise the free warranty will be null, and our company will not take any responsibility for any loss arising therefrom.

    2.This Manual is for reference only. For any change and update to the design and instructions herein, no further notice will be given. Please forgive us for any mistake or omission in this manual due to publishing or translation.
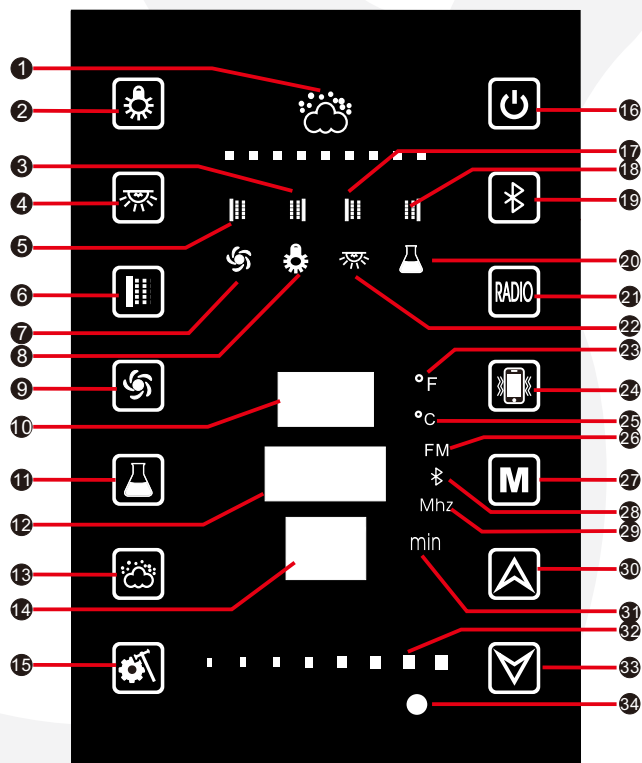
Remote controller keys

⚙ ----- Light function key	⏻ POWER ----- On/Off function key
----- Top light function key	✳ ----- Mp3 key
🌀 ----- Fan function key	TUN ----- Tuning function key
📱 ----- Telephone function key	⌃ ----- Plus function key
----- Steam function key	⌄ ----- Minus function key
----- Top spray function key	M ----- Memory function key
RADIO ----- Radio function key	----- Setting key

Note: Remote control is for option(remote controller should be ordered separately.

Instructions for keys of control panel

1 Steam icon	**11** Cleaning function key	**21** Radio function key	**31** Min. icon
2 Background light key	**12** Radio or MP3 display	**22** Top light icon	**32** Volume display bar
3 Spray function B icon	**13** Steam function key	**23** Fahrenheit TEMP icon	**33** Minus function key
4 Top light key	**14** Steam time display	**24** Telephone icon	**34** Remote control receive window
5 Spray function A icon	**15** Parameter setting key	**25** Centigrade TEMP icon	
6 Spray function key	**16** On/Off function key	**26** Radio TEMP icon	
7 Ventilation fan icon	**17** Spray function C icon	**27** Memory function key	
8 Background light icon	**18** Spray function D icon	**28** Bluetooth icon	
9 Ventilation fan key	**19** Bluetooth function key	**29** Radio frequency icon	
10 Temperature display	**20** Cleaning function icon	**30** Plus function key	

1. Instructions

1) Capacitor touch buttons are adopted in this panel. In selecting the position to install the panel, we should avoid facing directly the spray and shower nozzle, otherwise it may lead to mistaken operation of the panel or locking the panel;

2) The location area of each function button on the panel is the optimum touch range;

3) The panel is optimized with waterproof function. When mistaken operation is tested (with two or more keys touched simultaneously), there will be no response. Wait for about 1 second to restore operation.

2.Introduction to Functions

1) Light function;
2) Radio/Bluetooth function;
3) Shower control function;
4)Steam function

5) Telephone function
6) Ventilation fan function
7) Automatic cleaning function

3.Operation

1. Turn on/off the machine

1) Turn on the machine

If any button on the panel is touched , the background lamp will be illuminated. Within 10 seconds, touch button 🔘 to start the system and the ambient temperature and steam working time will be displayed on the screen. If button 🔘 is not touched within 10 seconds, it will exit the system and the background lamp will extinguish.

Directly Press the button 🔘 on the remote control to start the machine.
POWER

2) Turn off the machine

When the button 🔘 on the touch panel is touched or the button 🔘 on POWER the remote control is pressed, the machine will be turned off. The background lamp will extinguish 10 seconds later.

3) Drainage

After the system is turned off for 6 minutes, the steamer will be started to drain water for 3 minutes. after finish water drain, switch on/off the water drain valve 3 times to avoid any jam inside valve.

2.Light

Touch button 🔆 on the panel or press the button 🔆 on the remote control, background light icon is brighten up on the screen, again touch button 🔆 on the panel or press the button 🔆 on the remote control to shut off the background light.

Touch button 🔅 on the panel or press the button 🔅 on the remote control, top light icon is brighten up on the screen, again touch button 🔅 on the panel or press the button 🔅 on the remote control to shut off the top light.

3.Radio/Bluetooth function/Telephone function

1) Radio

Touch the button **RADIO** on the touch panel or the button **RADIO** on the remote control, Radio will be turned on, and the Radio icon will illuminate; meanwhile, the channel and volume stored last time will be started, and the current frequency will be displayed on the screen. When touch the button **RADIO** on the panel or the button **RADIO** on the remote control again, the Radio will be turned off.

Radio channel search: When the radio is on, touch the button 📻 on the panel or press the buttons 📻 on the remote control to enter the channel searching status. The icon flickers on the screen. The current radio frequency can be adjusted by touching the buttons ⋁ / ⋀ on the touch panel or pressing the buttons ⋁ / ⋀ on the remote control. If pressing and holding the button ⋁ for over 1 second, it will enter the automatic searching function. When an effective broadcasting station is searched, it will stop searching and broadcast this channel.

Memory: When a broadcasting station is searched, press and hold the button M on the touch panel or M on the remote control, and then the current frequency will be stored in the current channel. Press and hold the button M on the touch panel or M on the remote control for the second time, the frequency will be stored in the next channel. The operation is on the analogy of this. 10 frequency channels can be stored at most.

Channel change: When the radio is on, press the button M on the touch panel or M on the remote control to swap the frequency channels. The serial number of frequency channel will be displayed on the screen.

The frequency range is 87.5-108.0M.

2)Bluetooth function

Touch 🅱 key on touch panel or 🅱 key on remote control to turn on Bluetooth music function, then the screen shows "PL" to indicate the Bluetooth function is on. (If the phone is not connected, the 🅱 icon flashes, LED screen indicates "NC" until the phone is connected.) Touch 🅱 key again on touch panel or 🅱 key on remote control to switch off Bluetooth music function.

Song switching: When the Bluetooth player is on. Touch the button 🔘 on the touch panel or press the button 🔘 on the remote control several times until the Bluetooth icon 🅱 flashes; Touch the button ⏶ on the touch panel or press the button ⏶ on the remote control to switch to the previous song. Touch the button ⏷ on the touch panel or press the buttons ⏷ on the remote control to switch to the next song.

Bluetooth connecting:

A、5 seconds after power-on, search Bluetooth (SANJUN BT), when Bluetooth is not connecting, Bluetooth state display "nc"

B、Use mobile phone to connect Bluetooth, after connecting, Bluetooth state display "PL"

C、Start the music player on the phone to play music.

Note 1: Bluetooth will disconnect from phone automatically when the system is off; The phone should be connected to the Bluetooth again or it cannot be connected.

Note 2: In some Bluetooth device, when the song have played over 10 seconds, touch the button ⏶ , song will be replay; In this case, users should touch the button ⏶ twice to switch to the previous song.)

3) Telephone function

When there is an incoming cal l, the Telephone icon 📱 will illuminate and flicker; Mean while, 📱 the radio function pause automatically. Touch the button on the touch panel or press the button on the remote control to answer the call (the shower function will pause simultaneously) ; touch the button 🅱 on the touch panel or press the button 🅱 on the remote control once again to end the cal l, and the paused functions will resume.

4) Volume adjustment

When the radio function is on and the steam time adjustment status/temperature adjustment status is not activated, the default status is volume adjustment.Touch the buttons ⏶ 、⏷ on the touch panel or press the buttons ⏶ 、⏷ on the remote control, the acoustic volume can

be adjusted. Screen will show the volume bar.Volume is divided into 15 grades. In the state of volume adjustment, screen displays the current volume bar, like: 10db.

4.Steam bath function

When the button ⬚ on the touch panel is touched or the button ⬚ on the remote control is pressed, the Steam Bath icon will illuminate, and the Steam Bath will start. The default temperature is 45℃, and the default set time is 45 min. When the system is short of water, the icon will flickers. Touch the button ⬚ on the touch panel or press the button ⬚ on the remote control once again to turn off the Steam Bath function.

Steam Time setting: When the system is on, touch the button ⬚ on the touch panel or press the button ⬚ on the remote control, the preset steam time will be displayed on the screen, and the MIN icon flickers. Touch the buttons ⬚ 、 ⬚ on the remote control, the steam time can be adjusted, and the time setting range is 1-99mins.

Steam TEMP setting: When the system is on, touch the button ⬚ on the touch panel or press the button ⬚ on the remote control, the preset steam TEMP will be displayed on the screen, and the TEMP icon flickers. Touch the buttons ⬚ 、 ⬚ on the touch panel or press the buttons ⬚ 、 ⬚ on the remote control, the steam TEMP can be adjusted, and the TEMP setting range is 25-50℃. Screen shows the steam TEMP bar.

5.Change the display of temperature(℃/°F)

When the system is on, the steam function and cleaning function are off, long touch the button ⬚ on the touch panel or long press the buttons ⬚ on the remote control for 1 second to change the display unit of temperature(℃/°F)

6.Fan function

When the button ⬚ on the touch panel is touched or the button ⬚ on the remote control is pressed, the Fan icon will illuminate, and the Fan will start. Touch the button ⬚ on the touch panel or press the button ⬚ on the remote control once again to turn off the Fan function.

7. Shower mode

Choices of shower mode:

Within 20 secs after power connected(control panel power off), short press the ▤ key 3 times, then long press the ▤ key for 2 secs to enter "select mode". Now short press the ▤ key to select shower mode 1 or shower mode 2.

Shower mode 1:

A. When the shower is off, short press the ▤ key to turn on the shower function B and C.

B. Short press the ▤ key the 2nd time to turn on the shower function A and D.

C. Short press the ▤ key the 3rd time to switch on the cyclical function, it switches between the shower function BC and AD, the period is 5 secs.

D. Short press the ▤ key the 4th time to turn off all shower.

Shower mode 2:

A. When the shower is off, Short press the ▤ key to turn on the cyclical function, it switches between shower C and D, the period is 5s.

B. Short press the ▤ key the 2nd time to turn on shower C and D.

C. Short press the ▤ key the 3rd time to turn on all shower function.

D. Short press the ▤ key the 4th time to turn off all shower function.

Note: The shower function A indicates top shower. The shower function B indicates upper shower. The shower function C indicates middle shower. The shower function D indicates lower shower.

8.Preset finish time

When radio, Bluetooth function, shower and light function works together, system will turn off all these function in one hour from last one of these function start working.

9.Standby mode

When system on, if no any touch on the touch panel for 5minutes, screen will only show the clock and the logo. Touch any button again can active other function icon.

10.Clean function

When the power is on, short press the ▨ key on panel or the ▲ key on remote control, it will enable the clean function. While the clean function is on, press the ⏻ key on panel or the ⏻ key on remote control to turn off

the system first, then turn off the clean function. During the cleaning process and before the system was turned off, the steam switch 🐾 key is invalid.

After the system and clean function are off, then restart the system to turn on/off the steam function. After cleaning function is turned on: First, heating the water for 1minutes, waiting for 30minutes(this procedure for 2 times). After that, water drain for 3minutes, and heating for 1 minute, then drain water for 2minutes again. Finally, water drain valve switch on/off 4times to drain water in tank completely. Cleaning finished.

No action is required during the cleaning process, the system will be automatically turned off after cleaning. Before that, it will not be automatically turned off.

11.Auto-draining function

After the system was off for 6 mins, the auto-draining function will be enabled, it will drain for 3 mins and the valve will be automatically on/off for 4 times before it is closed.

12.Manual drainage

In the state of power-off, long touch the button " " on the touch panel for 2 seconds to turn on the drainage function, manual drain water for 3 minutes. After finish water drain, switch on/off the water drain valve 3 times to avoid any jam inside valve, or touch the button " " on the touch panel to turn off the drainage function.

13.Failure Alarm Code:

This machine has autonomous failure detection function. When the failure is detected, the corresponding failure code will be displayed on the screen:

The detailed failure codes and corresponding failures are as follows:

Prompt Displayed on the Nixie Tube	Failure Name	Cause of Failure	Failure Description
E2	Communication failure between host box and steam generator	a. Short circuit or open circuit of communication line occurs. b. The communication drive circuit fails. c. CPU I/O ports are damaged.	The main board communicates with the display box continuously during normal use. When communicate failure occurs and lasts for 5 seconds, all the external loading will be turned off, and the E2 failure will be reported .When the communication becomes normal, the system can recover all the functions. Please inspect the connection of computer cables during maintenance.
E3	Dry burning	a. The dry burning protection detection fails. b. The dry burning protection switch is damaged.	When the steam function is started, the steam system will be turned off if the dry burning protection is detected, and the E3 failure will be reported .Please inspect the dry burning detection circuit during maintenance.
E4/E5	Water inlet timeout failure	a. The main valve is not turned on. b. Water failure occurs. c. The inlet valve control system fails. d. The water level detection fails.	After the steam function is on, the inlet valve will be opened if the water is not enough. After 60 secs of continuously filling water, if the water level of water tank can not reach normal level, the system will report "E4" error and turn off steam function. After 3 mins, if the water level of water tank can not reach normal level, the system will report "E5" error and close inlet valve.
E8	Temperature sensor short circuit	a.The temperature sensor is off. b.The temperature sensor wasn't installed.	When the temperature sensor detects abnormal for more than 1 secs, it will send alert to system.
E9	Temperature sensor open circuit	a.The temperature sensor is off.	When the temperature sensor detects abnormal for more than 1 secs, it will send alert to system.