

# ***User' Guide***

**IMPORTANT:**

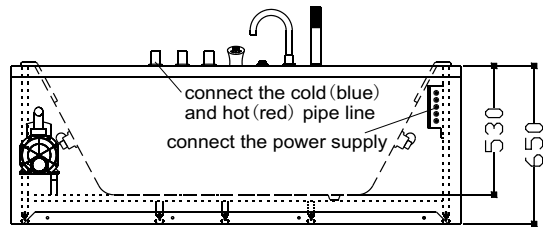
Read this manual before proceeding with installation of the bathtub and keep it with the other accompanying documents.  
This manual is valid for the installation of tubs both with and without whirlpool.

**MODEL:M-102 (WS-111)**

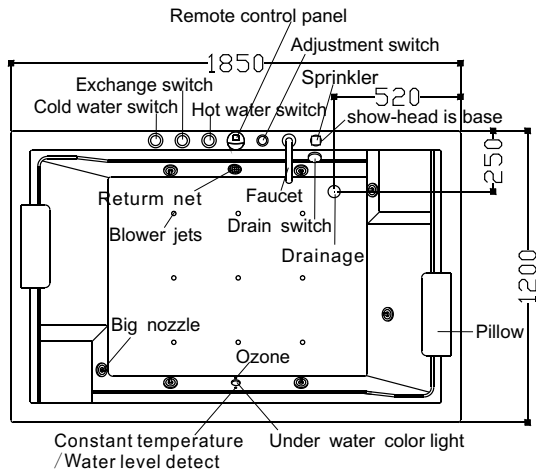
**SIZE:1850X1200X650mm**



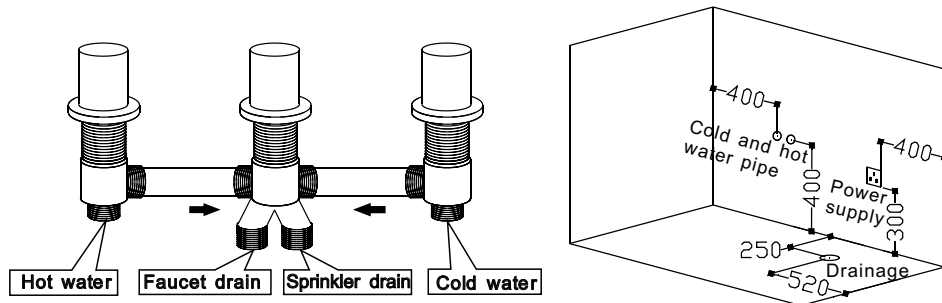
## Install the diagram



## Plane chart



## Tap takes over sketch







1. Users must install loads in strict compliance with the circuit diagrams and parameters supplied by our company.
2. External cable audio signal should not be strong enough to burn out the power amplifier of the system
3. The ground wire must be connected to the power supply line with good grounding.
4. Users must use the power cable sized 3x2mm or bigger and in compliance with the national standard(GB) and the socket for the power supply of the controller must be 20A or higher and in compliance with the national standard(GB) and reliably installed.
5. Users must additionally add a 20A or higher air switch or leakage switch in compliance with the national standard(GB) and the leakage switch of the controller only plays an assisted role.
6. Strictly check the power supply wiring of the control box. Power on to use only after no errors confirmed.
7. The electric appliances recommended by illegal manufacturers must not be connected to the controller. Unapproved dismantling and modification of the enclosed internal wiring are strictly prohibited. It is not allowed to connect or plug the wires and plug-in units on the power supply box during the power-on.
8. The connecting wires of the power supply box should be connected and plugged correspondingly according to the tags and specifications of the connectors. the output wires can not be short circuited each other.
9. It is a must to power off the whole unit after used to prevent long-tine power-on to accelerate ageing.
10. The installation of the controller must be performed in strict compliance with the installation instructions by qualified persons.
11. No recoverable elements exist in the controller. don't try to improve it by yourself for the high voltage in the controller can cause dangers. The maintenance and adjustment must be performed by professionals.


Our company shall not take any responsibilities to any harmful consequences caused by the violation of above operation procedures by users.

8.3 Volume adjustment

8.3.1 The radio system can realize the digital tuning by volume plus and minus buttons and the tuning steps are 40 with each step 2 dB and the volume adjusting range shall be 0-80dB. During the adjusting, the LCD shall flash the volume value in the place showing FM frequency and the final adjusted value shall be the setting value. After 2s, the LCD shall display the FM frequency again.

8.3.2 Press the button "  ", then the Volume plus button "  ": The volume shall be incremented by 2dB after push down the button once. When push Down the button for more than 2s, the volume shall be increased at the speed of 10dB/s.


8.3.3 Press the button "  ", then the Volume minus button "  ": The volume shall be decremented by 2dB after push down the button once. When push down the button for more than 2s, the volume shall be decreased at the speed of 10dB/s.

8.4 Station storage and retrieve button "  "

8.4.1 Station storage: When select the station frequency to be stored, push down the button for 2s and the frequency displayed at the LCD shall flash, then push down the button again to select the location for storage, after that push down the button again for 2s, the station frequency shall be stored in the selected storage location.

IV Operation Instructions of Remote Controller


1. Any functional button of the system works with a "beep" sound accompanied by the buzzer.

2. "  " water bottom light

2.1 Push down the button, the water bottom light is on; Repeat the operation again, it is off.

3. "  " Radio ON/OFF button

3.1 Push down the button, the system shall automatically enter FM receiving condition; Push down the button again, the system shall turn off the FM broadcast.

4. "  " play button

4.1 Push down the button, CD function is take effect.

5. Except for above listed functional buttons, other functional buttons on the remote controller have the same operation methods with the corresponding functional buttons on the button panel.

V Precautions for Installation and Use

Users must carefully read the following precautions to ensure the normal use of the product, extension of its service life and the personal safety:

1、Electricity parameter

Rated voltage	Rated power	Rated electric current	Reference circuit voltage
220VAC	750W	<4A	12V

2、Electric installation

- 2.1 power supply's establishment should be complied with nation security standard, voltage and frequency also should be accord with product's nameplate. Especially install creepage protect switch and also check whether can connect with ground.
- 2.2 The wire collected to the massage bathtub should be fitting permanent., and the wire should be a three-core wire, the sectional acreage of each core cannot less than 12A. when wire pass the wall, it should be use bushing for protection until the AC outlet.
- 2.3 Ground wire of bathtub should be test whether works with house appliance ground wire.
- 2.4 The wire end of electricity control box should connect to the control panel, water bottom light, loudspeaker, electrical engineering and the detector protection respectively.

3、Water supply device

- 3.1 This device's hydraulic pressure is 0.2-0.4Mpa.
- 3.2 The water supply characteristics on the wall: The cold or hot water supplies inside the bathroom also establish in the shelter of the massage tub, use the hose to connect with the cold or hot joint of the tub. the pipe towards is decide by the customer, the machine do not go with the hose.

4、Installation introduction

- 4.1 Before install, must consider the place of install massage bathtub whether can support this device's pressure.
- 4.2 Place the massage bathtub on the install position, adjust level to make the drain system smooth.
- 4.3 Adjust the leg's screw to make sure all of the screw touch ground completely.
- 4.4 Install the drain hose, and make some measure to against on the connector.
- 4.5 Fix cold and hot water-pipe well, then install the showerhead. And then put drain into downcomer, finally connect with power and make sure whether device connected with ground can work.

5、Using Method

- 5.1 Turn on faucet, adjust water's temperature, add water to the massage bathtub. when the highest water level exceed the highest nozzle about 20-30mm and reach the detector, press the switch button to let the electric machine.
- 5.2 Revolve the adjust switch, and choose the proper surf pressure.
- 5.3 After finishing if should turn off pump at first, then open drain button, when water is all out, please make a clean of bathtub to keep in good.

6、Clean and keep in good condition

- 6.1 usually use soft cloths and general liquid cleanser can wash away dirt, but forbid to use the cleanser with acetone or the ammon ia composition; when disinfect, forbid to use the disinfectant contained the formal dehyde.
- 6.2 the dirty spot of surface can use the toothpaste to wipe with the soft cloth.
- 6.3 to the low-grade chafe of the surface or burned by cigarette, can soak in water to whet with 2000# levigation sand paper, then polishing.
- 6.4 If the electroplate piece contain stain, use the soft cloth to wipe lightly, avoid to wiping with coarse cloth.
- 6.5 often clean up the backwater net cover, prevent it from stop;
- 6.6 Check whether have break on pipe and waterway aperiodically.

- 6.7 Please check whether there is fall off or breakage on wire, switch, connector plugs so that repair in time.
- 6.8 In order to keep to use in a long term ,please remember, don't use more than 3 hours continually.

### 7、Fault eliminate

Fault	Cause	Way
Machine or equipment doesn't work	Voltage unstable	Check circuitry
	Power connector didn't connect well or open circuit	Insert again or change power line
	The windpipe connect air switch fall off or break	Connect again or change
	The air switch failure	Change
Big nose of machine	Power's parameter is not same as nameplate	Connect with supplier
	Fixed screw did'n fix or fall off	Fix tightly again
	Support's leg screw did not touch ground	Adjust
water pipe leak out	Aging	Change
	The joint did not fix well	Fix again
	Water pipe or accessory leak	Change






Remark: except this fault, please according to situation to resolve, or find experienced people to repair.

### 8、special remind


- 8.1 please find qualified people to install bathtub according to introduction.
- 8.2 when you are using it, first of all you have to inject the cold water and then inject the hot water. Don't inject the hot water first.
- 8.3 bathtub's machine must connect on ground, support must use 1.5mm<sup>2</sup> yellow/green double wire connect with ground and check whether effective.
- 8.4 please do not turn on machine without water, before draining should turn off machine.
- 8.5 children should be looked after in bathtub.
- 8.6 bathtub's temperature can't higher than people average temperature, and the best is 32-37centigrade.
- 8.7 after shower ,please cut off power.
- 8.8 if have these situation ,please do not enter into massage bathtub.
  - 8.8.1 younger than 4 years old's child;
  - 8.8.2 blood circulation unstabled people;
  - 8.8.3 sot;
  - 8.8.4 suffer from flu;
  - 8.8.5 heart disease;
  - 8.8.6 already have sauna;
  - 8.8.7 after meal in half a hour;

Remark: our company has the right to modify the above mention without further notice.




### 6 Constant temperature function

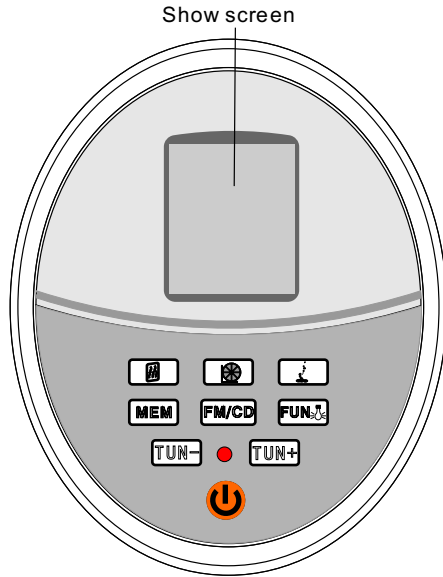
- 6.1 only the water pump starts, the constant temperature heater can start.
- 6.2 when the water pump starts. Press " " the controller commands the Water temperature according to the default(Default temperature is 40 C° ).  
Control rule:  
water temperature > Default temperature+1 C°  
The heater stops heating  
water temperature < Default temperature-1 C°  
The heater reheats.
- 6.3 When the constant temperature heater starts, press the button " " again, Show last enactment temperature in the frequency manifestation press the button " " or " " to adjust the temperature.
- 6.4 Press the button " ", the constant temperature function is off.
- 6.5 The temperature setting scope: 35° --45°.

### 7 Ozone function

- 7.1 After press " " to close the system. The ozone device works automatically for 10 minutes.

### 8 FM digital tuning radio

- 8.1 " "Radio ON/OFF button
  - 8.1.1 Push down the button, the system shall automatically enter FM receiving condition; Push down the button again, the system shall switch to CD play; push down the button for third time, the system close CD play.
  - 8.1.2 If the control system is OFF, FM broadcast and CD play can be operated separately.
- 8.2 Frequency adjustment button
  - 8.2.1 Frequency up button: Press " ", the tuning frequency can be increased by one step (1 step = 50KHz). If push down the button for more than 2s, the system shall automatically search FM stations upward and the digital phase locked loop shall automatically lock the searched FM station. The LCD shall display the frequency of the station. Push down the button again when the upper limit frequency is 108.0MHz, the frequency shall jump to 87.5MHz.
  - 8.2.2 Frequency up button: Press " ", the tuning frequency can be increased by one step (1 step = 50KHz). If push down the button for more than 2s, the system shall automatically search FM stations upward and the digital phase locked loop shall automatically lock the searched FM station. The LCD shall display the frequency of the station. Push down the button again when the upper limit frequency is 108.0MHz, the frequency shall jump to 87.5MHz.



- Condant temperature
- Water Pump
- Bulb pump
- MEM** — FM station memory and selection
- FM/CD** — FM/ CD switch
- FUN** — Function choice /bottom light
- TUN-** — FM frequency decrease
- TUN+** — FM frequency increase
- Power switch
- Remote control receive

### III. Operation Descriptions of the Control Panel

- 1 Any functional button works with a "beep" sound accompanied by the buzzer.
- 2 " " Power switch
  - 2.1 Push down the button ,the controller is on; Repeat the operation again ,it is off.
- 3 " " Bulb pump
  - 3.1 push down the button , the bulb pump is on ; Repeat the operation again, it is off.
- 4 " " Water bottom light
  - 4.1 Push down the button for more than 2s,the water bottom light is on; Repeat the operation again, it is off.
- 5 " " Water pump
  - 5.1 The control system is equipped with a water level detection device to prevent the water pumps from idle running to cause damages.
  - 5.2 When the level device detects that the level had reached the setting value, push down " "the button, the water pump starts operation and push down the button again, it stops operation.
  - 5.3 when the water level device detects that the level has lowered the setting value, the water pump stops operation and can not operate any more.

## Bathtub User's Guide

### WARNINGS

1. Please follow the instruction contained in the attached installation manual to ensure that the product is installed properly. the manufacturer will not be held liable for damages or injuries caused by improper installation.
2. Follow the instructions contained in this manual when using the product.
3. Before using the bathtub, check the local voltage that if reach to the rated voltage(pre-installation card).

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## I. Safety Precautions

### 【Warning】

1. Don't expose the controller to the rain or moist environment to prevent fire or electric shock. Don't open the cover of the controller for there are dangerous parts in it . Only qualified servicemen are allowed for maintenance.
2. Any change or modification to the controller not definitely recognized by its manufacturer or authorized units may cause many troubles to users.

### 【Useful Tips】

1. The intervals of continuous power on and off must be over 30s for extending the uses life of the controller.
2. Please turn off the power after use.
3. The used power supply must be in line with the specified voltage value shown on the controller otherwise it is not allowed to be used even burns out the controller.
4. When installing the controller ,carefully check if the parameters of a load are as required by the controller otherwise it is not allowed to be used even burns out the controller.
5. Please restart the controller in case of occasional down.

## II. Brief Introduction

### 1.General Description of Functions

Functions	Model	PR1756
1 Water pump		✓
2 Bulb pump		✓
3 Water bottom light		✓
4 FM digital tuning radio		✓
5 Connect with CD machine		✓
6 Constant temperature function		✓
7 Ozone function (Remayk: when you use function should instar temperature constant heater		✓
8 Water level sensor function		✓
9 Remote control function		✓

### 2. Characteristics of the Remote Controller :

- 1) Working voltage :3.0 VDC
- 2) Power supply :3V2025 button butterfly 1 piece
- 3) Expected battery life : Over 1 year
- 4) Transmission range : The distance between the receiver and infrared sensor should be 5m at least

- 5) Transmission angle : Usually about 60°
- 6) Transmission media : Infrared ray

### 3. The LCD shows the following information

- 1) Logo and operation condition of the water pump
- 2) Logo and operation condition of the bulb pump
- 3) Logo and operation condition of the water bottom light
- 4) English letters, frequency and unit of FM
- 5) English symbol and value of volume
- 6) English symbol of the channel storage and the channel value
- 7) Frequency hopping condition

### 4. Devices controlled ty the control system

- 1) current of the controllable water pump: AC220V/1. 5HP
- 2) Bulb pump: AC220V/500W
- 3) Water bottom light: AC12V/12W
- 4) Ozone: AC12V/5W
- 5) constant temperatrue heater: AC220V/1500W
- 6) speaker: 8Ω/8W

### 5. Schematic Diagram of Pr1756 Remote Controller

