

ARIEL

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ARIEL

AM146/151/154/156 Installation Instruction

Safety Information

- 1.Please read carefully and follows all instruction when operating.
- 2.An earth leakage circuit-breaker must be installed and please carefully check it before use.
- 3.To avoid electric shock, the replacing of the wire must be done by the electrical engineer or the retailer. You could not alternate just by yourself. The wire for CT,TS series shall be:3*1.5 square mm; The wire for TS-1,CL,CW and CW1 series shall be 3*1.0 square mm.
- 4.A grounding wire connector is provided on this unit to connect with the surface of water pump and air pump.The minimum of the solid copper must be 1.5 square mm.
- 5.Forbid modifying and eliminating the product.
- 6.Please don't use this product after alcohol or drugs.
- 7.The children user shall be closely supervised by parents.
- 8.All the electrical spare parts except the remote control must be put stable to avoid slip into the tub.
- 9.Warning:the water temperature shall never exceed 60 degree centigrade.
- 10.Using strong causticity chemical liquid to cleaning the product, such as vitriol,hydrochloric acid,lye and so on is forbidden.
- 11.The pumping machine would be very hot when and after running,to avoid scald,please don't touch the surface of the pumping machine.
- 12.The water level must be higher than the jet before turning the product on.
- 13.No dropping things into the connection point of the pump and the power machine.
- 14.Warning: Avoid electrical shock, the GFCI/RCD (Earth Leakage Circuit Breaker) must be installed.
- 15.Warning: Avoid electrical shock, not allow useing extended wire. The socket used should be positioned near the products.

Maintenance instruction

1.The cleaning of the acrylic surface:

For the daily maintenance you could just use the sponge and water. If there are scratches appear in the surface, please use the 1500 waterproof abrasive paper to polish the surface. Then use toothpaste to polish again. You could also use the dirt cleaning machine for help. However, you could not use strong causticity chemical liquid to cleaning the product, such as vitriol, hydrochloric acid, lye and so on.

2.Electroplate cleaning:

Please use the soft cloth for cleaning. Please don't use the rough cloth.

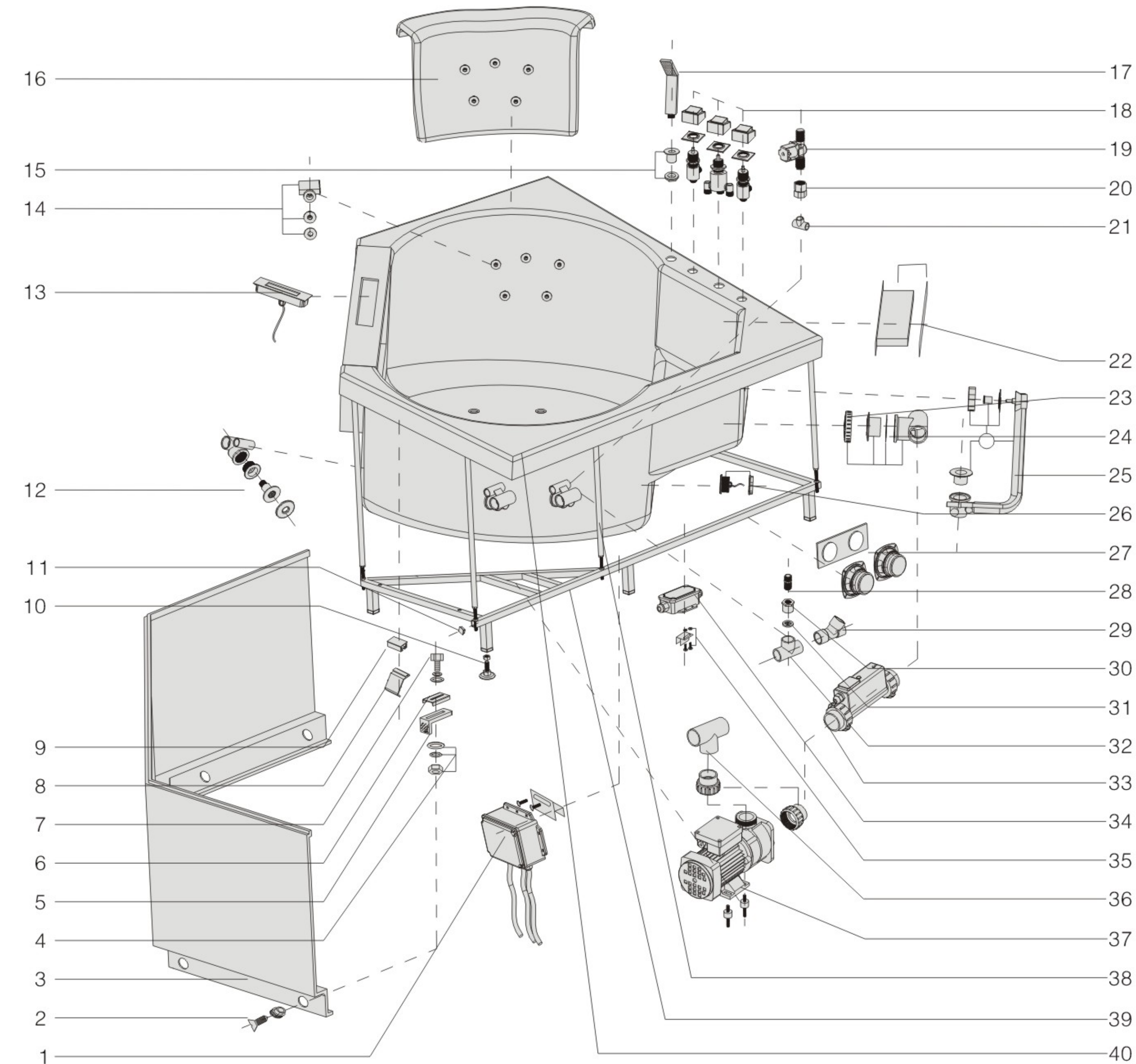
3.Suction net cleaning:

Turn the screw out and take the suction net out, Clean it to keep the water going through smoothly. Not use strong causticity chemical liquid to cleaning the product, such as vitriol, hydrochloric acid, lye and so on.

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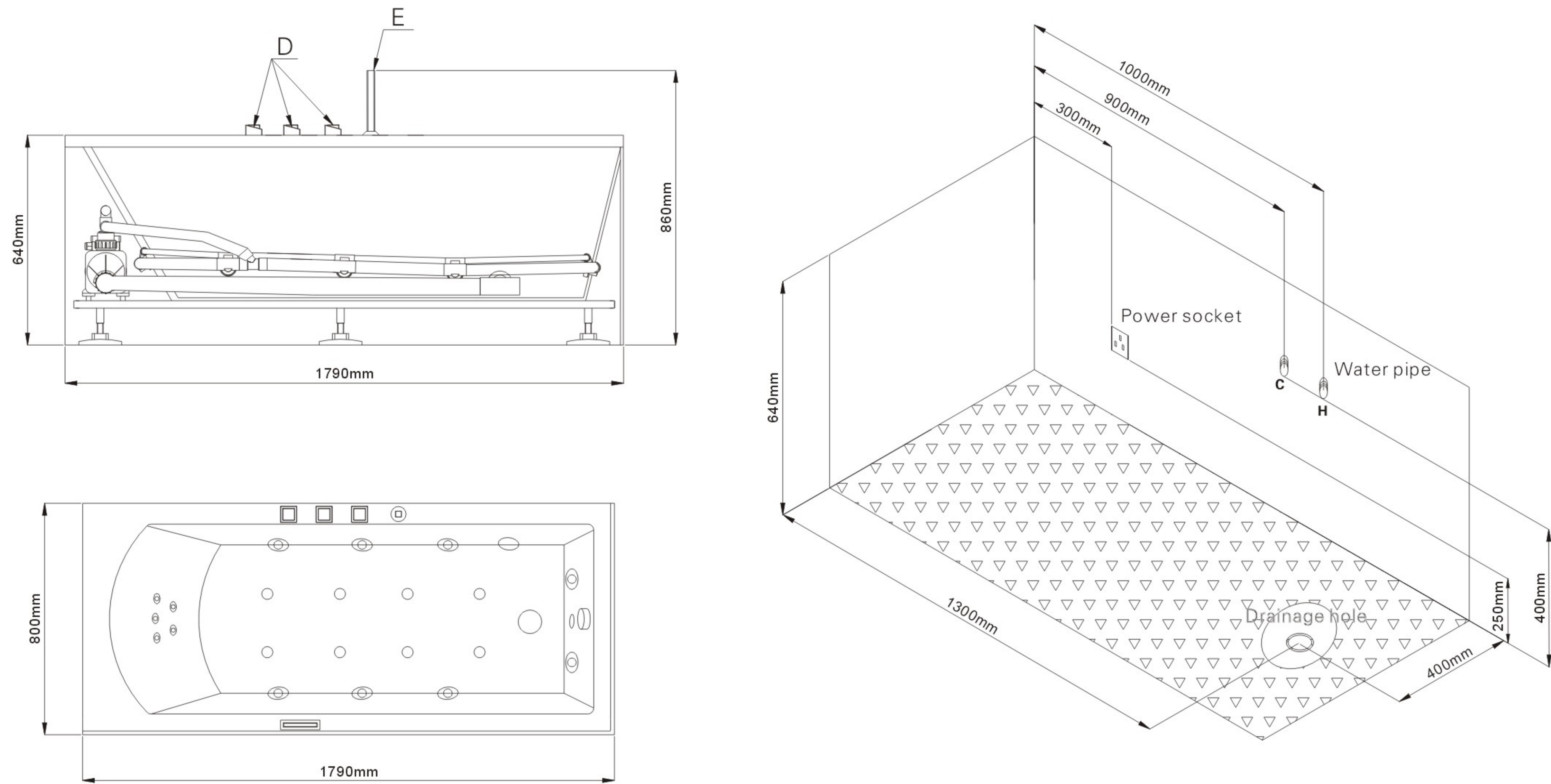
AM156 Components Structure



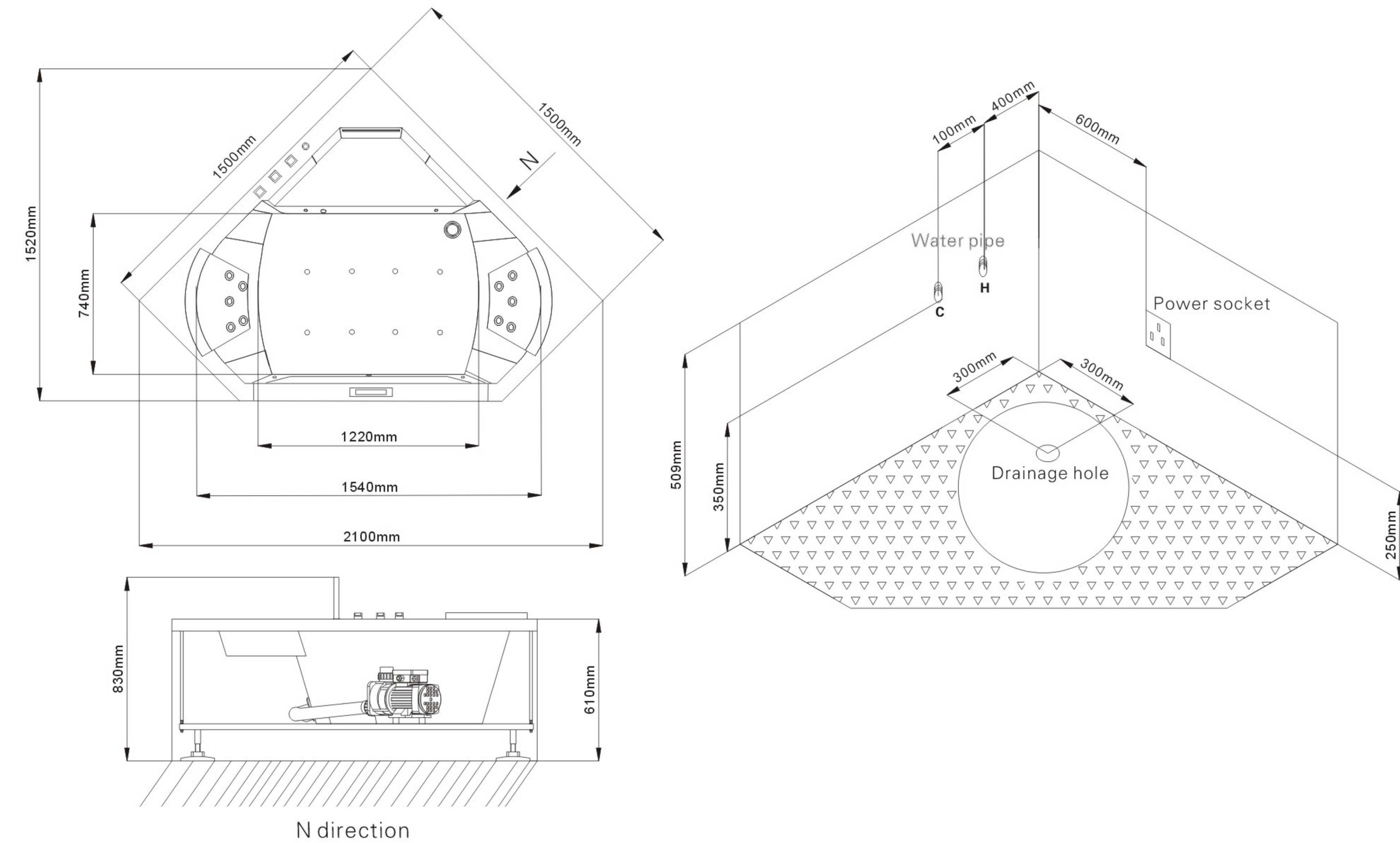
AM156 Components Structure

1.BS311 (E3) PC board	2.White nut	3.Skirt panel	4.8mm nut	5.White skirt buckle	6.The gasket for the white skirt buckle	7.8X50 screw
8.The spring for the movable plastic skirt	9.The spring base for the movable plastic skirt	10.Bathtub leg	11.Plastic stopper for the stainless steel shelf	12.side jets	13.BS-311 (E3) control panel	14.Back jet
15.Water proof shower pedestal	16.156 Black pillow	17.HC1560CP Shower head	18.7080B/D15 Three pieces vavle	19.drainage	20.W1-0138 Movable connector	21.0.5 inch three way conversion
22.AM156 water fall	23.Chrome plated filtration net- model 1	24.Plastic suction	25.3629A-5 Plastic drainage	26.Bottom light	27.Loudspeaker	28.4 cm conversion
29.1 inch three way conversion	30.fitting nut	31.One way plastic stuff	32.1 inches three way conversion	33.1.5KW thermostatic	34.Plastic box for income wire	35.Clip for PC panel
36.A07 lengthened plastic	37.WPC150AB Water pump	38.Adjustable legs	39.Stainless still bracket	40.Bathtub body		

AM154 Water and wire line instruction diagram

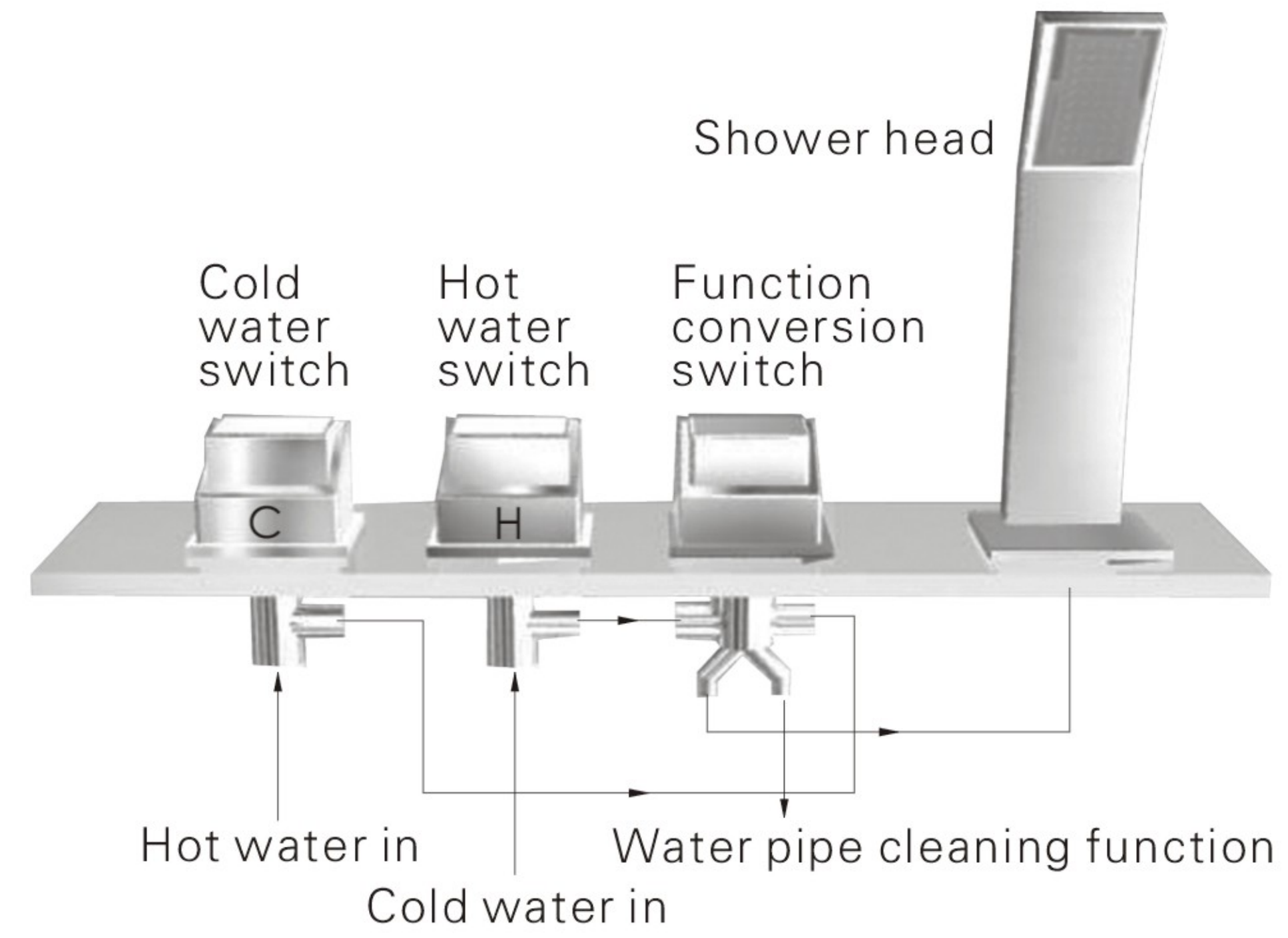


AM156 Water and wire line instruction diagram

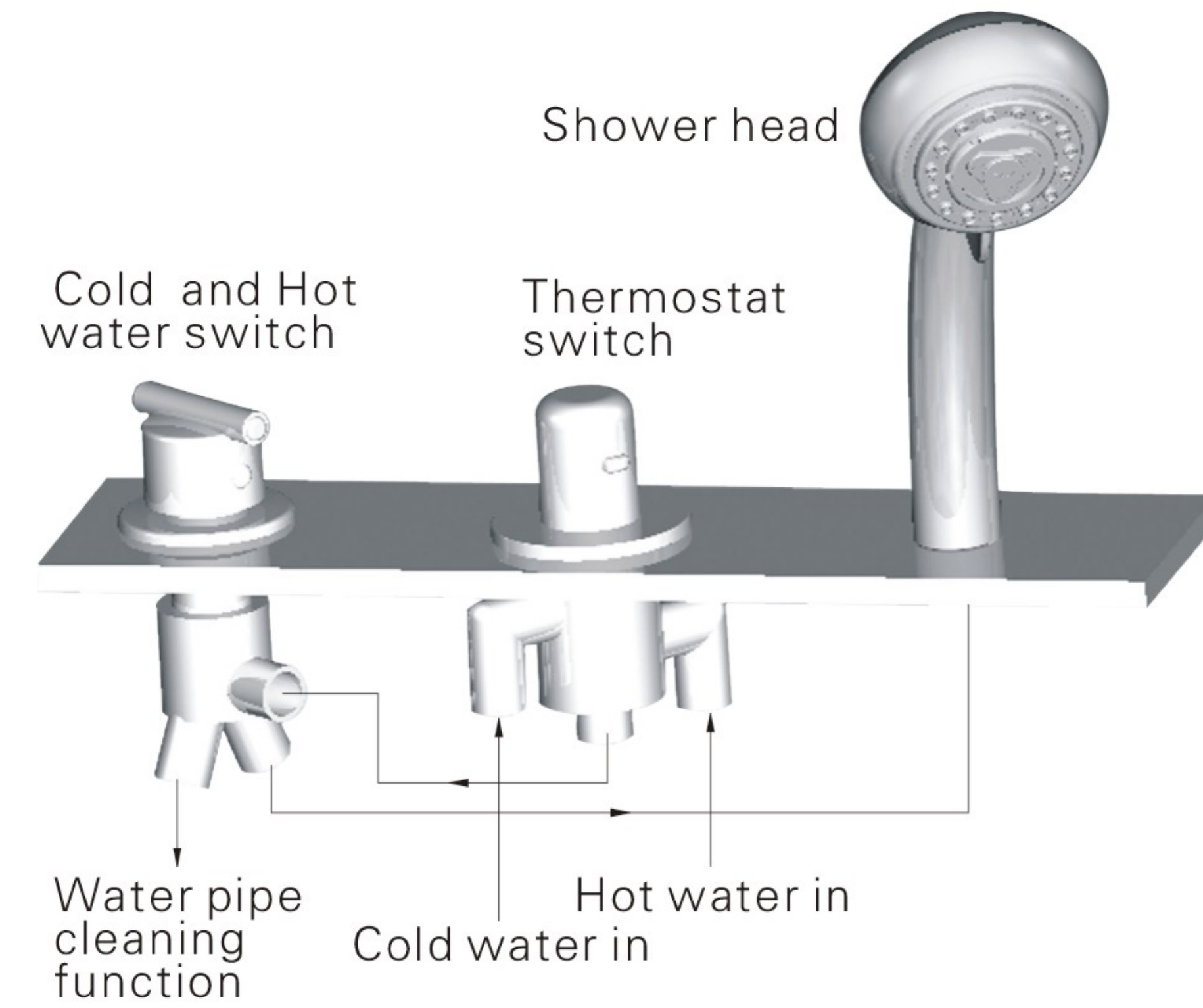


Connection diagram of the faucet's pipe

Spare parts 1:

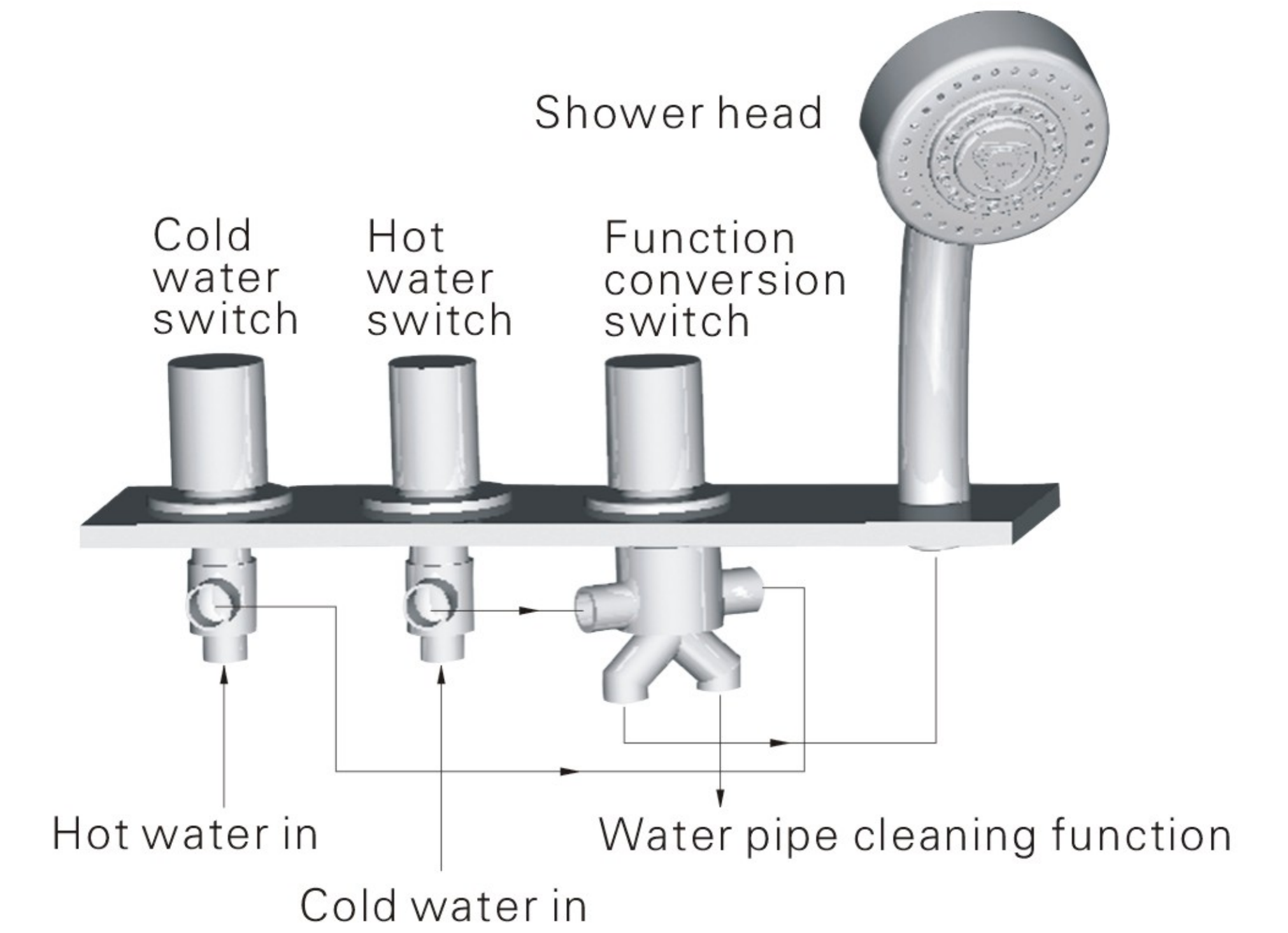


Spare parts 2:



Connection diagram of the faucet's pipe

Optional:



Installation Step

The product use standard accessories. Please refer to production tech parameter and follow the below steps for installation:

1. Confirm the direction for the product→**2. Adjust the product for horizontal**→**3. Connect the water-in and water drainage**→**4. Connect the power**→**5. Check and confirm**→**6. Reposition**→**7. Pour water and test**

1、 Confirm the installation site for the product

Please see to the product technique diagram and related tech parameter to connect the water drain pipe, power socket, water-in pipe. Confirm if there is enough space for the connecting.

2、 Adjust the product for horizontal

Adjust the adjustable leg of the product; turn it into horizontal level.

3、 Connect the water-in and water drainage

The water out pipe lays in the bottom of the bathtub, with diameter 38 mm. the pipe could be elbow in whatever way you like. Please put the pipe into the water drainage system and seal it well. Please keep the pipe running through to avoid water exhausted.

4、 The Power Connection

This item is adjustable by the required power; please refer to the technique parameter for the direction of the power socket. Pay attention to the water-proof; connect the connector plugs into the socket. (Noted: the yellow-green bi-color wire from the water pump is the ground line, the diameter is 8 mm).

5、 Check and confirm

After the above steps, please check the connection points are sealed or not. Clean the dirty things in the bathtub and open the water drainage. Wash the bathtub by water. In order not to stuff the water drainage and jets, please do clean the dirty things before washing.

6、 Reposition

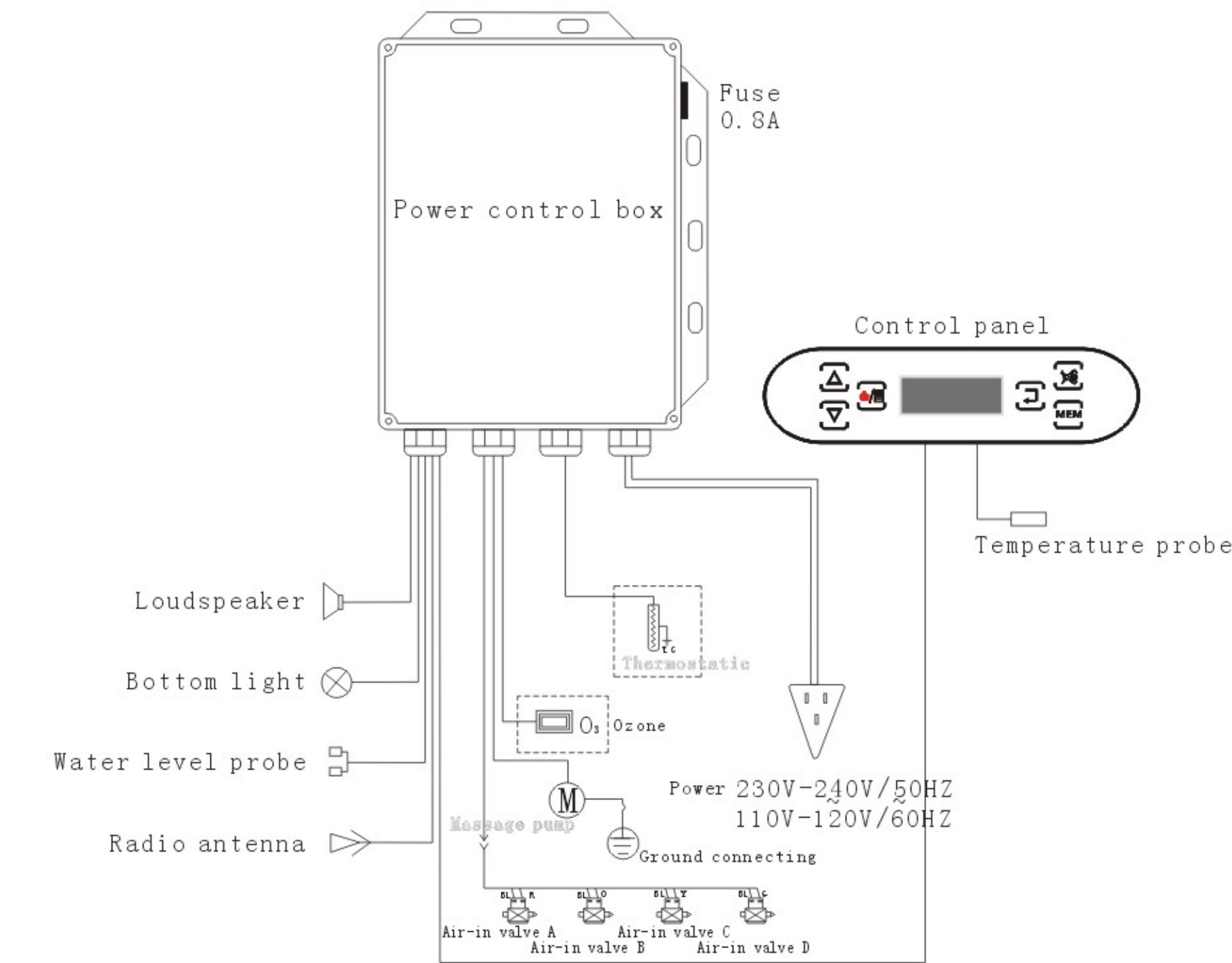
Reposition the product to where you want.

7、 Pour the water in, check and test before use

Confirm the bathtub is clean. Close the water drainage and start storing the water. When the water level is higher than the probe, turn on the bathtub and try the functions according to the control panel instruction.

Wire connection diagram for massage bathtubs

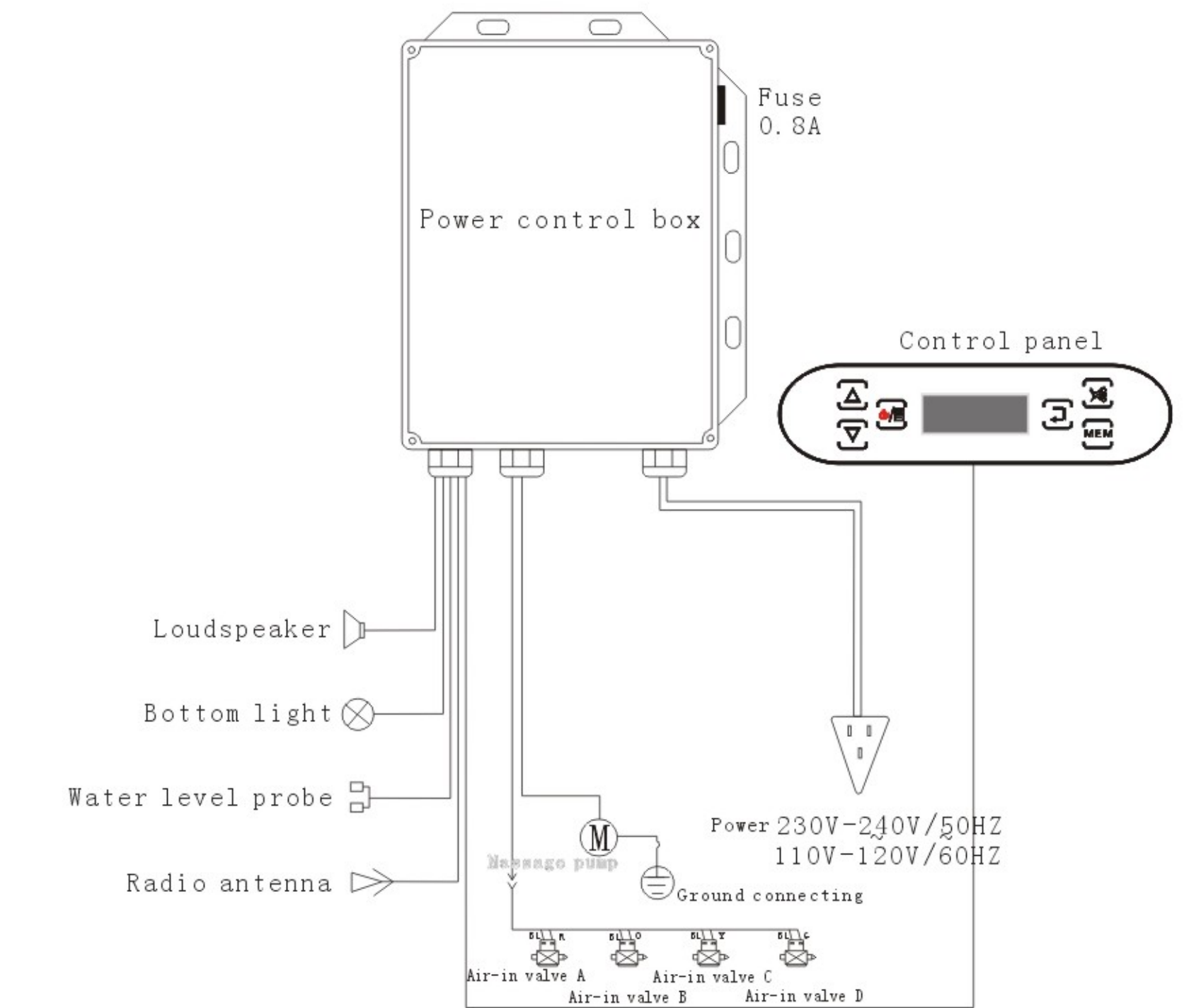
TS luxurious bathtub wire connection diagram



Electric parameter

Spare part	Message pump	Ozone machine	Bottom light	Thermostatic	Electromagnetism valve	PC control panel	Loudspeaker	Notes
Rate voltage	AC220-240V/50HZ	AC12V	DC12V	AC220V/50HZ	DC12V	AC220V/50HZ		
Rate voltage	AC110-120V/60HZ	AC12V	DC12V	AC120V/60HZ	DC12V	AC120V/60HZ		
Rate power	1125W	5W	3W	1500W	5W		15W	

TS-1 luxurious bathtub wire connection diagram

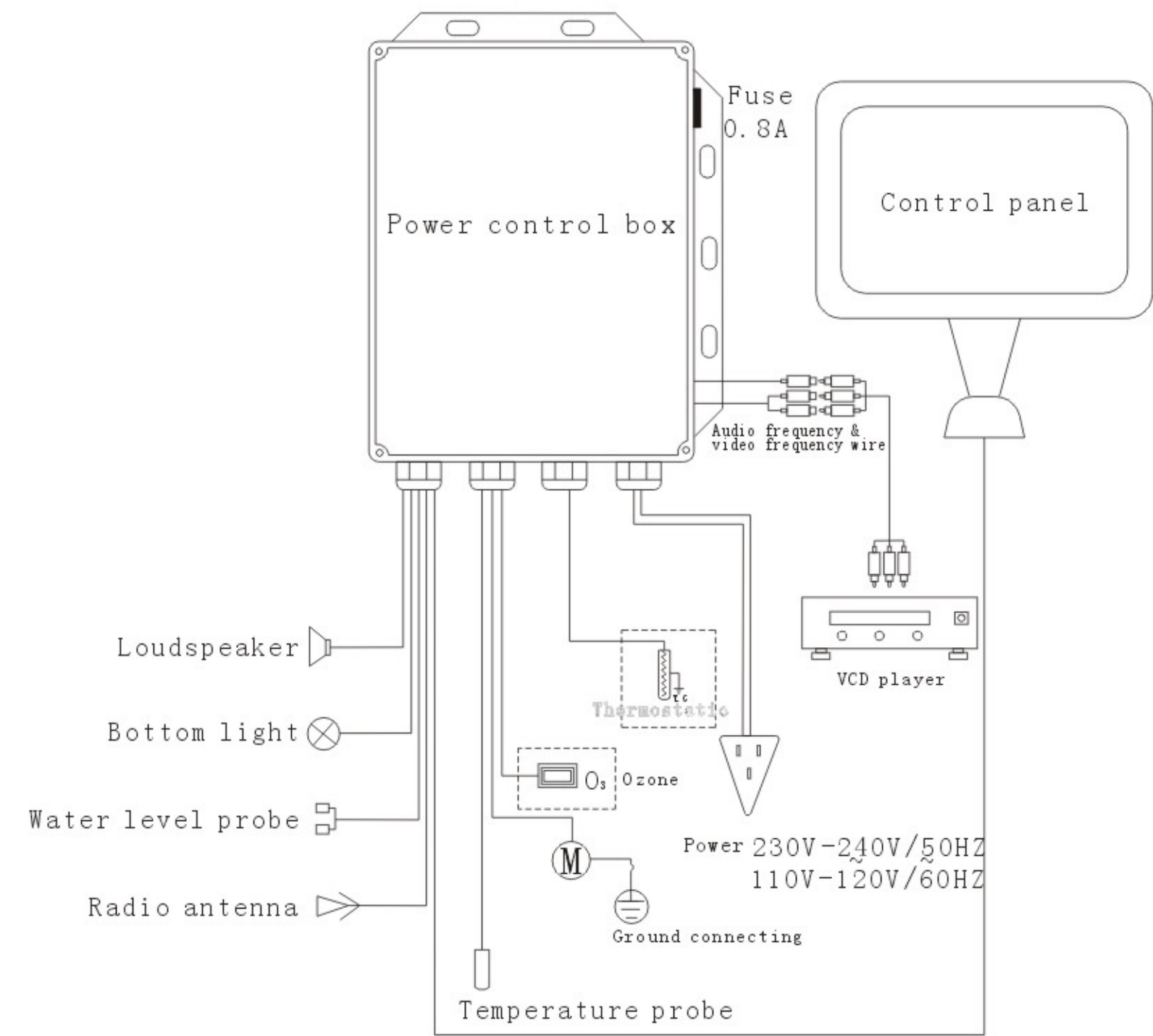


Electric parameter

Spare part	Message pump	Ozone machine	Bottom light	Thermostatic	Electromagnetism valve	PC control panel	Loudspeaker	Notes
Rate voltage	AC220-240V/50HZ		DC12V		DC12V	AC220V/50HZ		
Rate voltage	AC110-120V/60HZ		DC12V		DC12V	AC120V/60HZ		
Rate power	1125W		3W		5W		15W	

Wire connection diagram for massage bathtubs

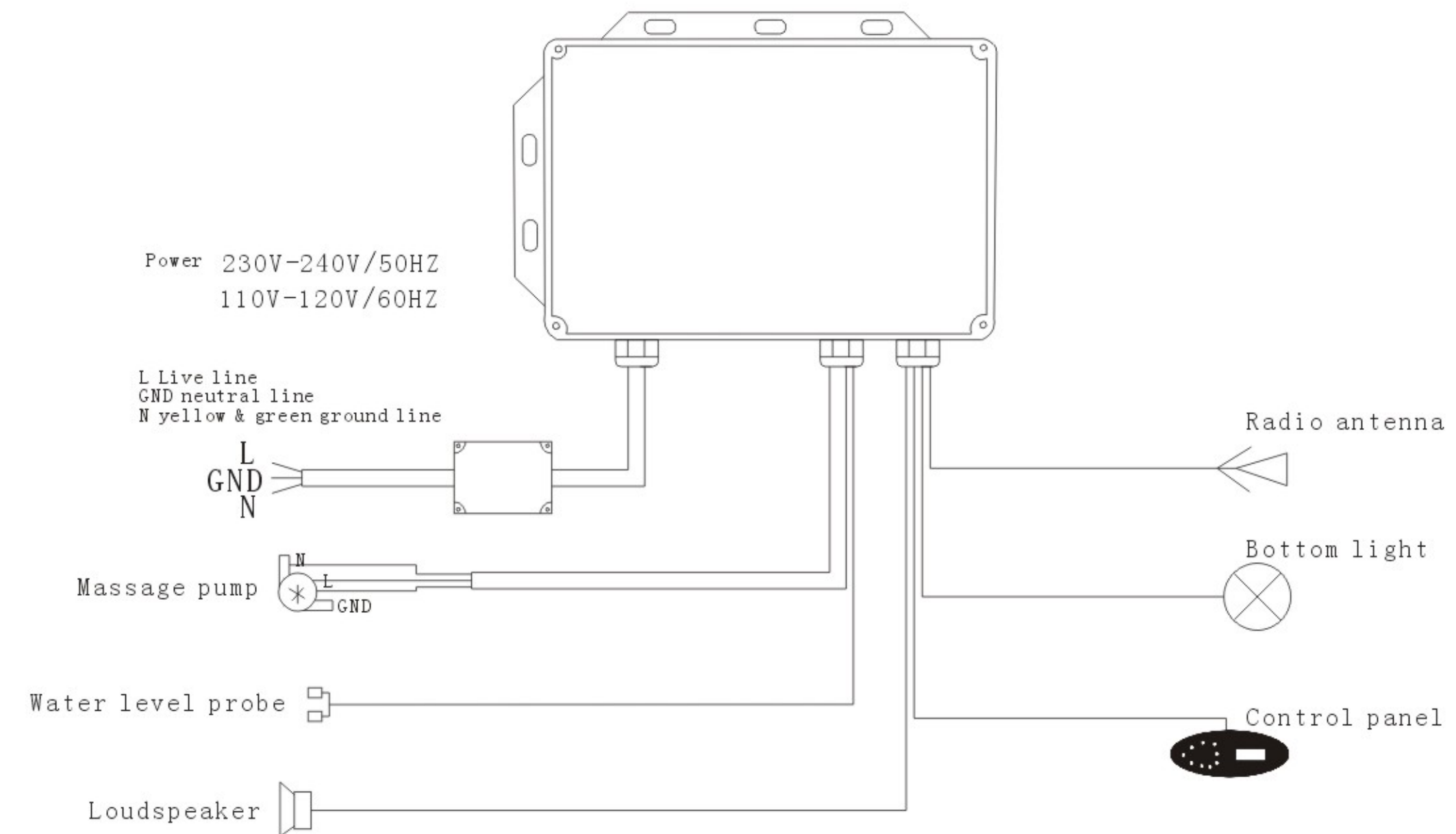
CT luxurious bathtub wire connection diagram



Electric parameter

Spare part	Message pump	Ozone machine	Bottom light	Thermostatic	Electromagnetism valve	PC control panel	Loudspeaker	Notes
Rate voltage	AC220-240V/50HZ	AC12V	DC12V	AC220V/50HZ		AC220V/50HZ		
Rate voltage	AC110-120V/60HZ	AC12V	DC12V	AC120V/60HZ		AC120V/60HZ		
Rate power	1500W	5W	3W	1500W			15W	

CL、CW1 luxurious bathtub wire connection diagram



Electric parameter

Spare part	Message pump	Ozone machine	Bottom light	Thermostatic	Electromagnetism valve	PC control panel	Loudspeaker	Notes
Rate voltage	AC220-240V/50HZ		DC12V			AC220V/50HZ		
Rate voltage	AC110-120V/60HZ		DC12V			AC120V/60HZ		
Rate power	1125W		3W				15W	

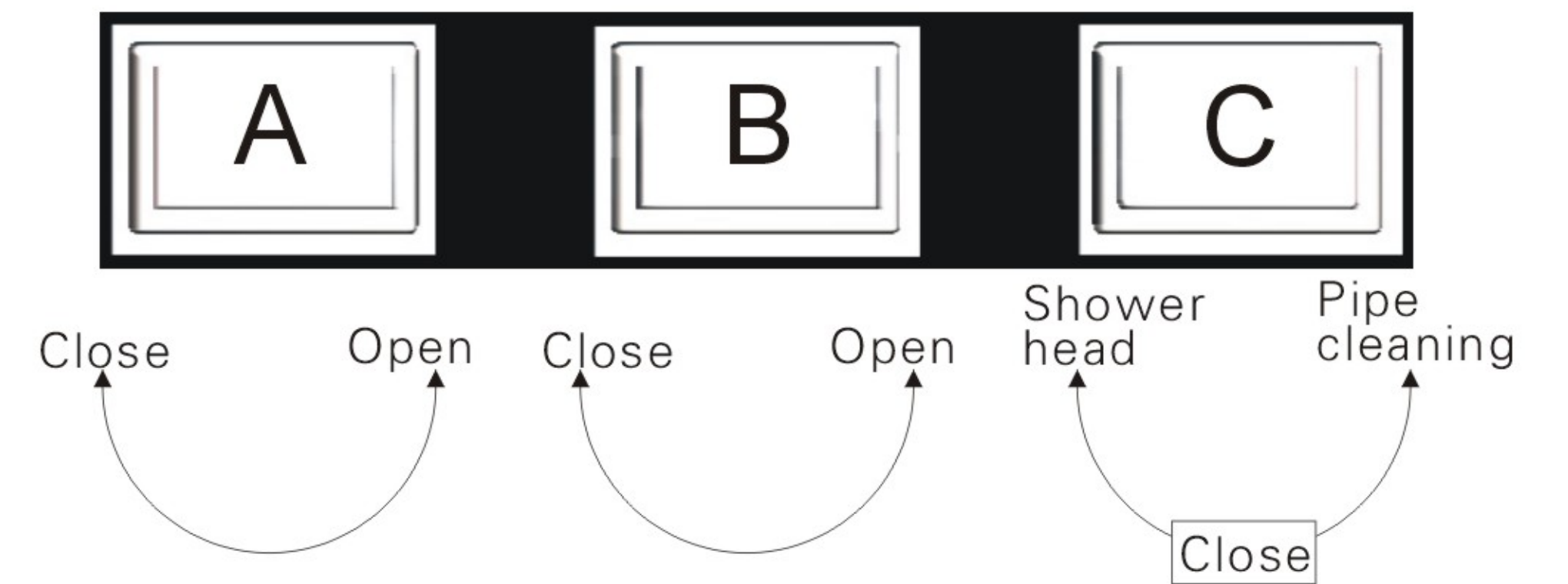
Faucet's usage instruction

Spare parts 1

1、Bathtub faucet

Three sets of the faucet:

- The water-in pipe where with red label is hot water, and the hand-hold faucet with label H is also hot water. Turning left could alternate the volume of the hot water. The maximum is 90°C to the left.
- The water-in pipe where with blue label is cool water, and the hand-hold faucet with label C is also cool water. Turning left could alternate the volume of the cool water. The maximum is 90°C to the left.
- Function conversion value, Turn 90 °C left is the pipe cleaning function while 90 °C right is the shower head.



2、Water pressure massage

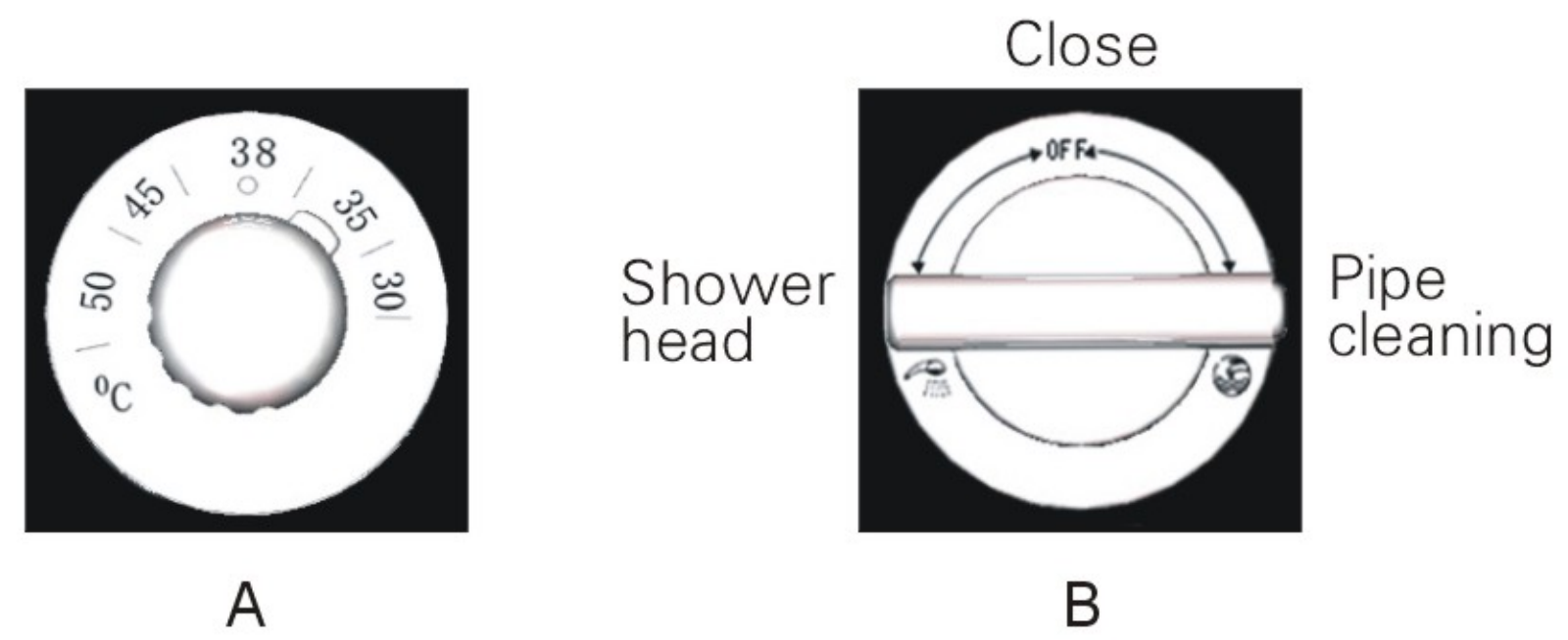
The effect of the water pressure massage is control by the pressure of water and air loop. It is control by the control panel. The control methods please see to the instructions of control panel.

Faucet' s usage instruction

Spare parts 2

1、Bathtub faucet

- A、The thermostatic faucet is for both cold and hot water in. In the inlet pipe, the side with red label is for hot water while blue is for cold water. You can adjust the temperature according to the temperature mark in the faucet.
- B、B is the function conversion. Turn 90 °C left is the pipe cleaning function while 90 °C right is the shower head.



2、Water pressure massage

The effect of the water pressure massage is control by the pressure of water and air loop. It is control by the control panel. The control methods please see to the instructions of control panel.

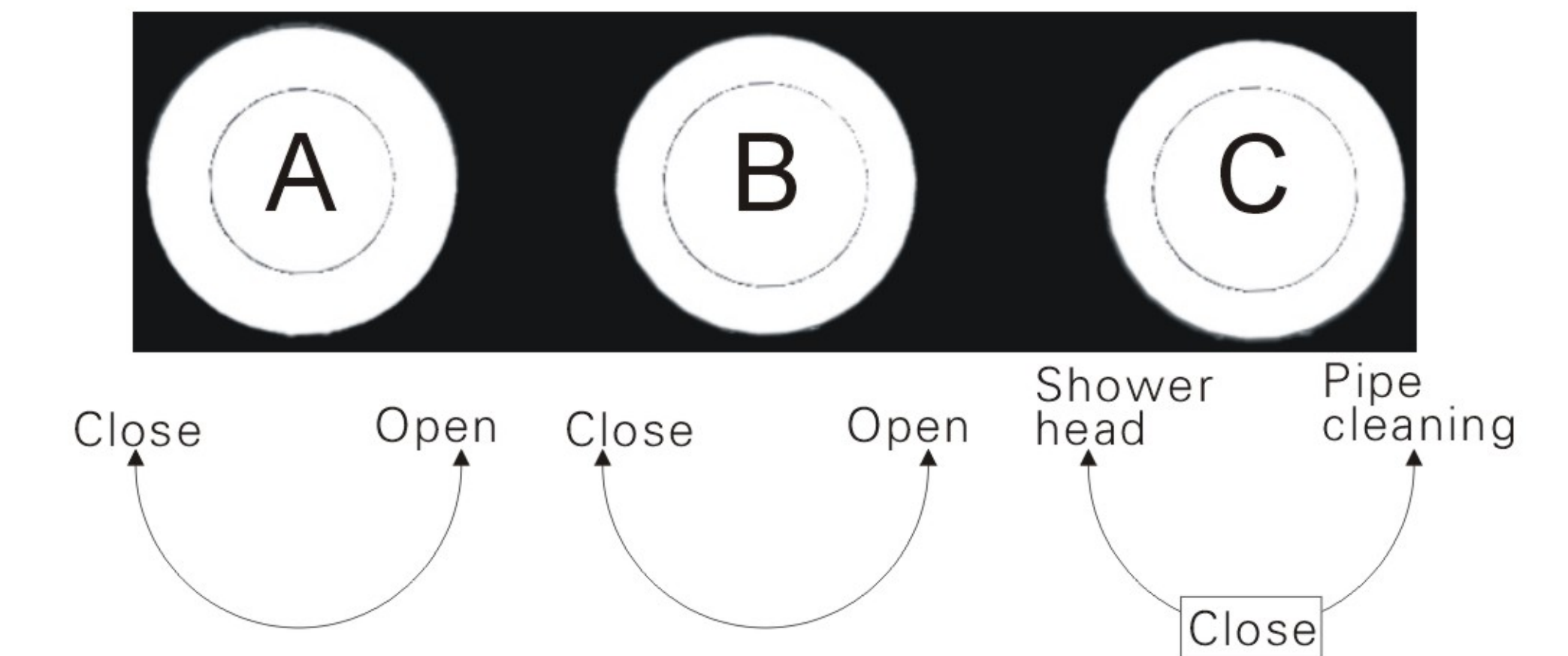
Faucet' s usage instruction

Optional

1、Bathtub faucet

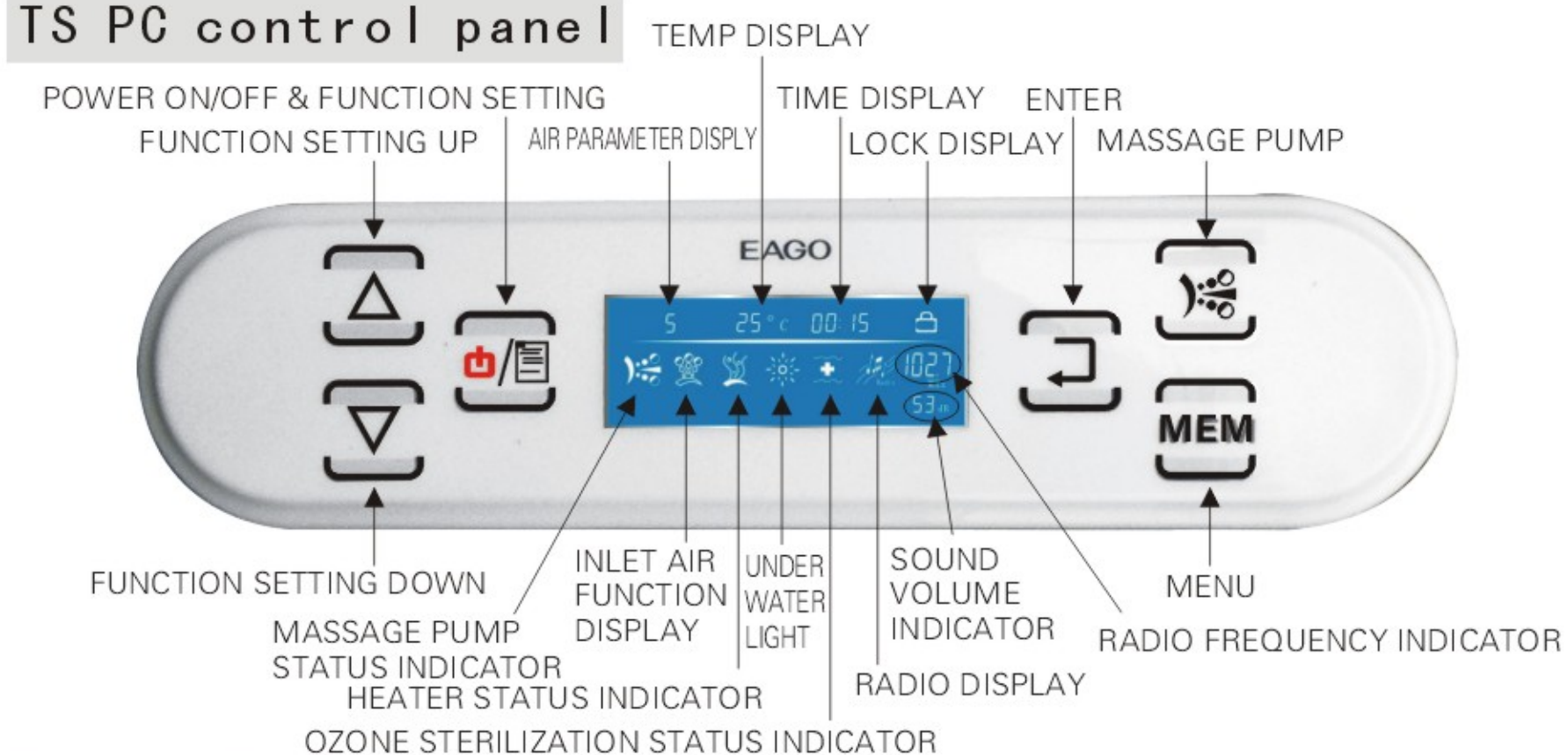
Three sets of the faucet:

- A、The water-in pipe where with red label is hot water, and the hand-hold faucet with label H is also hot water. Turning left could alternate the volume of the hot water. The maximum is 90°C to the left.
- B、The water-in pipe where with blue label is cool water, and the hand-hold faucet with label C is also cool water. Turning left could alternate the volume of the cool water. The maximum is 90°C to the left.
- C、Function conversion value, Turn 90 °C left is the shower head while 90 °C right is the pipe cleaning function.



TS Control panel usage instruction

TS PC control panel



Basin functions:

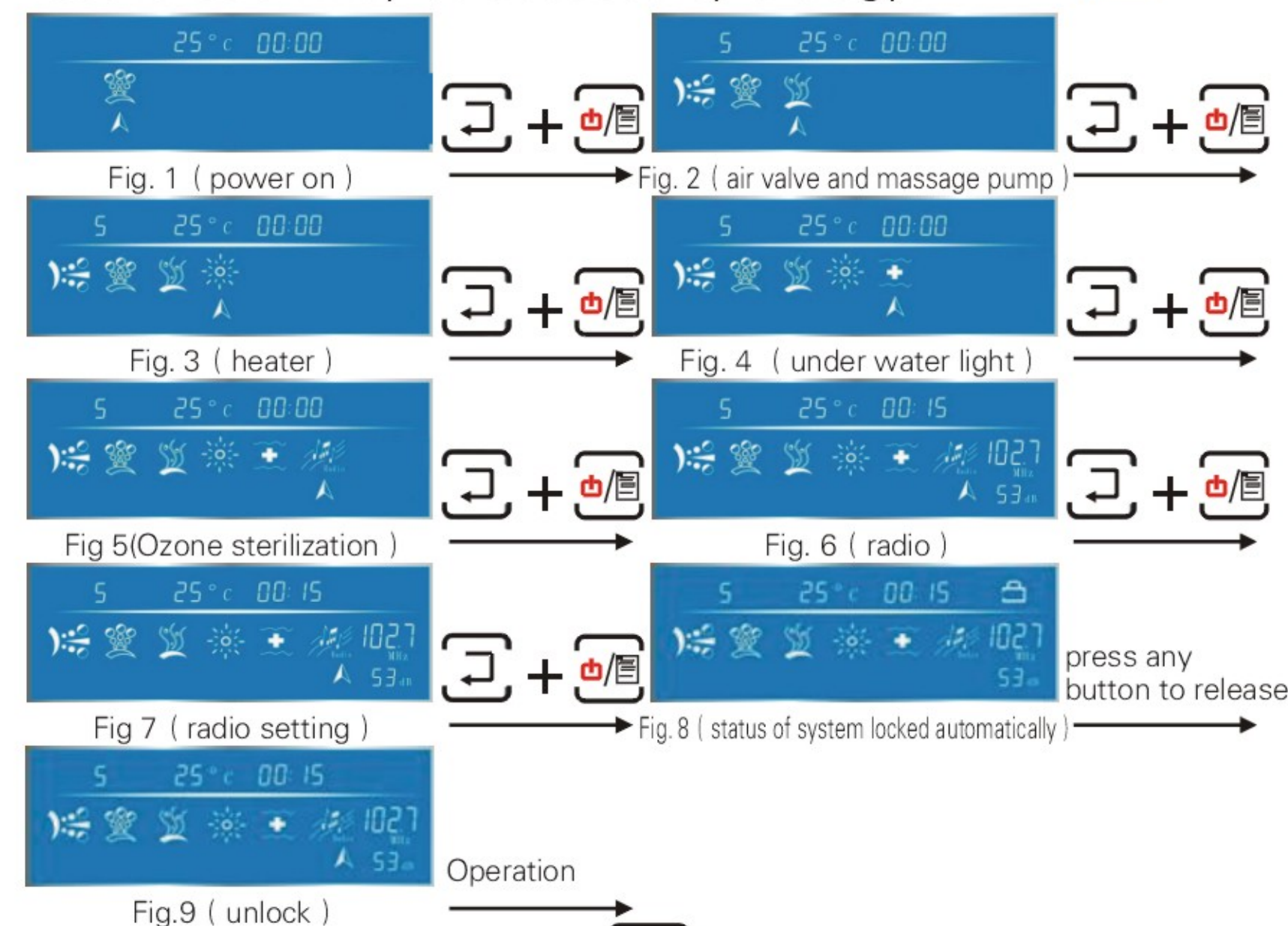
1. The induced button clicks when valid operation, but there is no response if invalid operation.
2. LCD display.
3. Radio function.
4. Massage pump is controlled by the water level.
5. Heater function is available. Water temp is adjustable and it is controlled by water level and massage pump.
6. Underwater light.
7. INLET AIR FUNCTION is controlled by massage pump and water level.
8. Water temp display.
9. Ozone sterilization is controlled by water level.
10. Working time display.

Operation instruction

1. POWER ON/OFF & FUNCTION SETTING

When unit is powered on, press button on control panel in 1 second, all function buttons are on or off operation phase. System will be deactivated after 1 hour automatically unless be turned off first manually by press button again in 1 second. All function will be off accordingly. When the system is activated, press button shortly (less than 1 second) and enter into function setting status. Then the function icon is flashing on the control screen and sign is shown under this function button. Press Enter button to activate the function with sign underneath. The icon will not

Flash if the function is on. Press button again and sign will move to the next function button, which will flash accordingly. Then press Enter button to activate this function with sign. And the rest function may be deduced by analogy.



2. MESSAGE PUMP

Press button on the control panel and the massage pump start running. Press this button again to shut off the massage pump. The massage pump is controlled by the water level. When the water level does not reach the position for the sensor, there is no response by pressing button and the massage pump is not available.

3. ENTER

If any functional button is on, press ENTER button to shut off this function. If any functional button with icon underneath is flashing, press Enter button to activate it.

4. MENU

When the radio opens, press MENU button to converse the operations of frequency adjustment or desired channels stored down.

TS Control panel usage instruction

5. FUNCTION SETTING UP

During radio frequency display phase, press to increase frequency. Press for more than 1 second; enter into automatic channel up search status. It will stop till next available channel comes up or end up to upper limit 108.0MHz. During sound volume display phase and system in FM channel manual search status, press to increase volume. Press for more than 1 second, sound volume increases quickly and stops if releasing or till the upper limit. During temp display phase, press to increase heating temperature, from 20~45. System presents water temp to be 40° C by default. (Note: If no any function icon is flashing, press only to increase the sound volume.)

6. FUNCTION SETTING DOWN

During radio frequency display phase, press to decrease frequency. Press for more than 1 second; enter into automatic channel down search status. It will stop till next available channel comes up or end up to lower limit 87.50MHz. During sound volume display phase and system in FM channel manual search status, press to decrease volume. Press for more than 1 second, sound volume decreases quickly and stops if releasing or till the lower limit. During temp display phase, press to decrease heating temperature, from 20~45. System presents water temp to be 40° C by default. (Note: If no any function icon is flashing, press only to decrease the sound volume.)

Underwater light

When icon is directing at function icon, press Enter button for the first time and red light is on. Press Enter button for the second time, red-green light is on; third time, green light on; fourth time, green-blue light on; fifth time, blue light on; sixth time, blue-red light on. Press Enter button for the seventh time, underwater light enters into different colors changing in sequence. The underwater light cycles in this sequence: red, red-green, green, green-blue, blue and blue-red. Press Enter button for the eighth time to deactivate underwater light.

Inlet air function display

When icon is directing at functional icon, press Enter button, massage pump A starts running. Meanwhile, one inlet valve is open and inlet air parameter displays 1. Press Enter button from 2nd to 4th time, two to four inlet valves are open and inlet air parameter display 2 to 4. Press Enter button in 5th time, inlet valve is open in sequence for every 3 seconds and inlet air parameter display 5. Press Enter button in 6th time, all inlet valves are open for every 2 seconds and

close for every 1 second and inlet air parameter display 6. Press Enter button for the 7th times, all the inlet valves close and no parameter display, but massage pump keeps running. The inlet air function cycles in this sequence: one valve, two valves, three valves, four valves, three valves, two valves and one valve. (Note: If water level in the bathtub does not reach the position for the water level sensor, there is no any response by pressing icon.)

LOCK DISPLAY

When the display panel is on non-operational phase for 30 seconds, the panel will be locked automatically. Meanwhile, LCD screen display lock indicator icon on the top right corner. Then no response is from the panel by any short press (less than 1 second). Press any icon on the display panel by long press (normally 1 second) to unlock the panel and the lock indicator icon will disappear. Then all function buttons are on operation phase.

TIME DISPLAY: When the display panel is on operation phase, the time display presents for timing. System will be deactivated automatically after the system has run for 1 hour . Press power on/off button by long press to activate the system again.

Automatic drainage function: When the system is off, open the waste and the water drains out automatically. When the water level is below the position for the water level sensor, drain solenoid valve of few products is open for 30 minutes. This function requires no direct operation.

Light in the front panel for few products: When the system is activated, light in the front panel for few products is on at the same time. As soon as the deactivation, the system and light in the front panel is off automatically. This function requires no direct operation.

Special operational instruction for the heater: Press Enter button to activate heater function when the control screen is shown as the Fig. 2 and the heater function icon is flashing. When heater is functioning, temp setting icon flashes. Use and buttons

to set the desired temperature, from 20~ 45. The temp setting is not available when the temp icon does not flash. System presets water temp to be 40 by default. When the massage pump is not working, heater function is not available.


Special operational instruction for the Ozone sterilization:

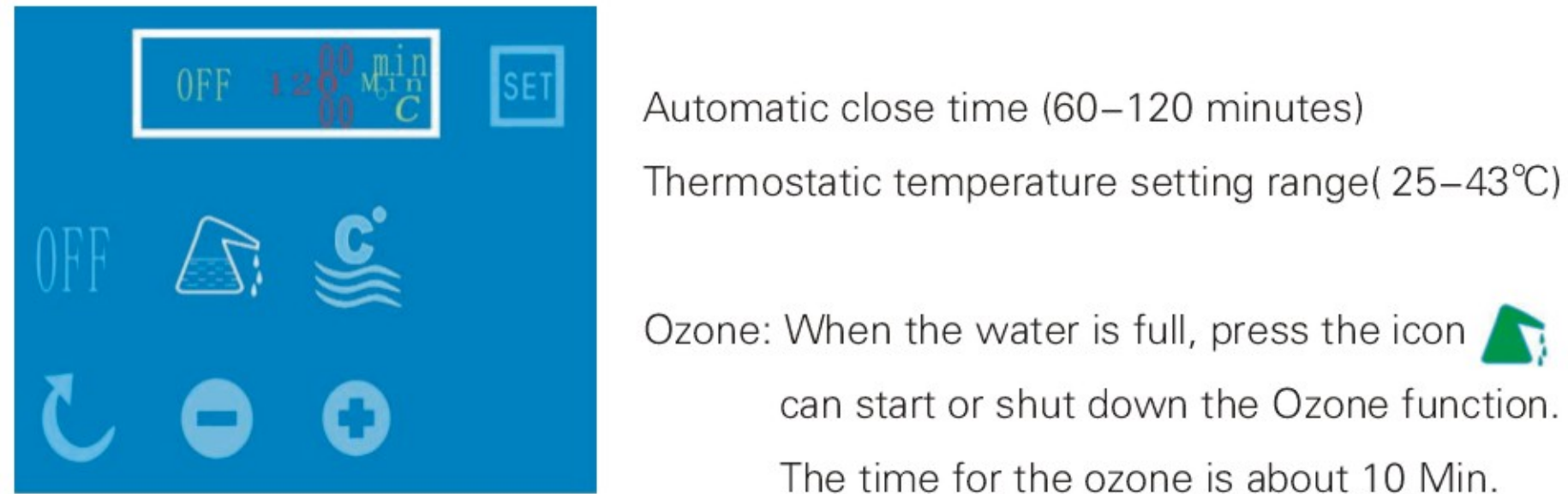
Press Enter button to activate ozone sterilization function when the control screen is shown as the Fig. 4 and the heater function icon is flashing. When the water level does not reach the position for the sensor, no response is from the button and ozone sterilization is not available.

CT Control panel usage instruction

15、Parameters setting

After turning on the bathtub, if the boot Menu or function Menu is showed, you can press OK key in the remote control or press **SET** key to start parameters setting (Picture 10).

Under different functions, you can adjust the parameters by – or + key. If without any operation in 8 seconds, the system will quit this parameter set Menu. Press  key or OK key in remote control will return to the previous Menu.



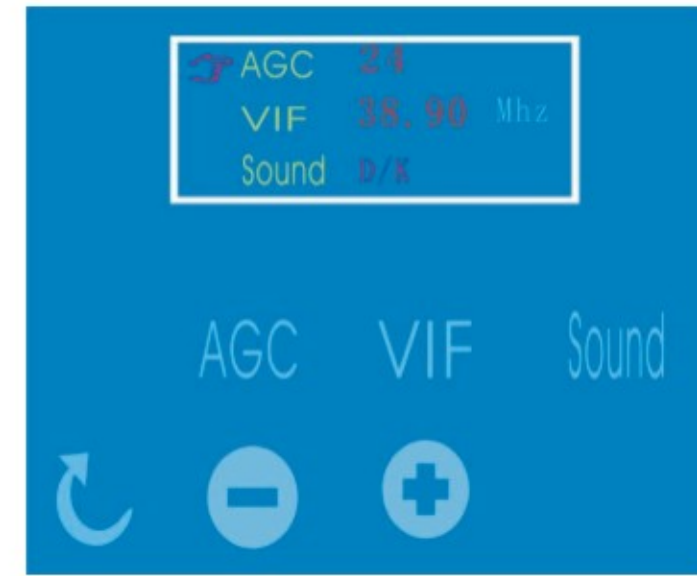
Picture 10

16、Menu function and special instruction

When TV is on, if receiving a weak channel signal, and you need to start the menu function, The weak channel signal will be closed temporarily to avoid the display obstruction.

17、Factory menu

Factory Menu is used when the product is tested in the factory. Enter method: when TV is playing, enter TV search Menu (as mentioned above), press SKIP key more than 2 seconds, the Factory Menu will appear(Picture 11). In factory Menu, you can set AGC, TV system, Sound system with the help of icon – or +.



Picture 11

AGC: auto–gain control value
VIF: Intermediate frequency value
Sound: Sound standard

According to the different customers, you can make the following adjustments.

Adjustment of auto:

Choose one weak signal channel, increase or decrease AGC parameter. It will be the best when it just appears snowflake in screen.

Choice of VIF: Due to the different TV system in different countries, you have to choose different tuners and VIF. It is 38.9 MHz in China, and 45.75 MHz in USA.)

Choice of Sound system: according to different sound systems of each country, you have to choose the different sound intermediate frequency. For example, it is M/N in USA.)

18、Safe–control panel

In behind–rightward of the display box, there is a safe control panel, which has four buttons.

The main purpose to set up the safe–control panel is to start or shut down the power, pump, thermostat function or other important function when the touch panel is now working.

Troubleshooting Instructions

Problem	Cause	Solution	Problem	Cause	Solution
The bathtub anomaly shaking and noising	<ol style="list-style-type: none"> 1.The under frame of bathtub is imbalance and/or the bolt is not tighten. 2.Screws of fixed of pump are not tightened or the clutch damper was missing. 3.Idle running on motor. 4.Motor failures. 	<ol style="list-style-type: none"> 1.Putting the tub on a level surface, leveling the tub by adjusting under frame of the tub, tightening bolt. 2.Should be 4 screws of fixed of Pump and 4 clutch damper, all bolts have to be tightened. 3.Pour more water until it over flow the sensor. 4.Contact you dealer or after–sale services department of EAGO Company. 	Chromatherapy not on	<ol style="list-style-type: none"> 1.The plug get off. 2.Control circuit board error. 	<ol style="list-style-type: none"> 1.Plug in again. 2.Contact you dealer or after–sale services department of EAGO Company.
The pump is running, but poor jet action	<ol style="list-style-type: none"> 1.The suction net partly blocked. 2.Not adequate water level. 3.Adjusting valve of function is shut down. 4.The inlet pipe of pump exist air. 5.Other Probable Cause. 	<ol style="list-style-type: none"> 1.Take off the suction net with screwdriver. Clean it to keep the water going through smoothly. 2.Pour more water until it over flow the sensor. 3.Open the adjusting valve of function. 4.a) Open the washout valve to exhaust the air inside the pipe. b) Check and tighten all connection part of the inlet pipe. c) Close the washout valve properly. 5.The water pipe and air pipe may be mixed up. Please contact the professional technician to fix it. 	Insufficient inflow rate	<ol style="list-style-type: none"> 1.The water pressure is too low. 2.Water inlet block. 	<ol style="list-style-type: none"> 1.Check the water pressure. 2.Check and clean the dirty filter
Water pump or air pump does not operate	<ol style="list-style-type: none"> 1.The voltage is unusual or the power is out. 2.The fuse blew out or the earth leakage circuit–breaker is OFF. 3.Nothing appears on the panel screen. 4.No signal from the water level sensor. 5.Baroswitch broken. 	<ol style="list-style-type: none"> 1.Plug the power cable into an electrical outlet. Make sure the switch is in "ON" position. 2.The fuse or the earth leakage circuit–breaker should be checked or repaired by a professional electrician. 3.Contact you dealer or after–sale services department of EAGO Company. 4.Pour more water until it over flow the sensor. 5.Replace the same model of baroswitch by professional electrician. 	Diverter valve is not working	<ol style="list-style-type: none"> 1.Gasket of the valve is distortion or damage. 	<ol style="list-style-type: none"> 1.Replace a new gasket
			No bubble out from the Hydro–massage jet	<ol style="list-style-type: none"> 1.Air pipe block. 2.Air pump is switch off. 3.Air pump does not operate. 	<ol style="list-style-type: none"> 1.Take off the lid of the Hydro–massage jet; clean the small air hole by thin wire. 2.Switch on the air pump. 3.Follow the "air pump does not operate" instruction process to check the air pump.
			Water outlet switch leak or does not pop up	<ol style="list-style-type: none"> 1.The support screw under the water outlet switch is too tight or falling off. 2.The connection rope inside the water outlet switch is broken. 3.The gasket is not flat. 	<ol style="list-style-type: none"> 1.Take out the water outlet switch; adjust the support screw to proper point. 2.Replace whole set of the water outlet switch. 3.Reinstall the water outlet switch; make sure the gasket is flat.
			Some water left inside the pipe	Some models of bathtub can not drain all water out from the pipe because of its special construction.	