

**DIGITAL
SHOWER
INSTALLATION
INSTRUCTION
MANUAL**

Model: K801

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01. Important and Safty Information.

To avoid endangering your personal safety and causing damage to the product, please be sure to comply with the following matters listed.

- Please read these instructions carefully before starting installation process and keep this instruction manual for future reference.
- This product must be installed by a qualified and competent person in accordance with all relevant current water supply regulations.
- All showers requiring an electrical connection must be installed by a qualified person following the latest version of BS7671 (Wiring Regulations) and certified to current building regulations.
- Before any electrical connections are made, the electricity supply must be turned off. Any electrical installation must be carried out only by a qualified person.
- This product is not intended for use by children and person who are with reduced capabilities unless they are supervised or clearly understand the instructions for the safe use of this product.
- ⚠ This product must be installed in a location that is safely accessible for servicing and maintenance prupose.
- ⚠ Before installation, please make sure that the room temperature of the place where this product is installed will not be over 40°C or where freezing may occur.
- ⚠ Hot and cold water supply should be balanced pressure of at least 1 Bar,
- ⚠ This product must be not used with a hot water supply temperature over 75°C.
- This product is suitable for domestic use.

Pipe Work

- Please try to shorten the distance from the water heater to the digital shower box, and the distance from the digital shower box to the shower or other terminal outlets. Too long pipeline laying will reduce the flow rate and extend the temperature adjustment time of the product.
- To optimize performance, minimize the number of elbows used in the pipe work.
- Install isolation valves at the water supply pipes to turn off water supply for easy maintenance.
- Before connecting pipe work to the product, flush out the pipe work for at least 5 minutes to remove debris or dirties inside the pipework. Failure to do this would affect the performance or damage the control box.

Cables

- Cables which are installed into the wall must be protected by a conduit or sheathing for maintenance.
- Surface mounted cables should be protected by a conduit, even in a loft, where there may be a risk of damage from vermin.
- Please check for hidden pipes or cables before drilling any holes.

Thermostatic valve

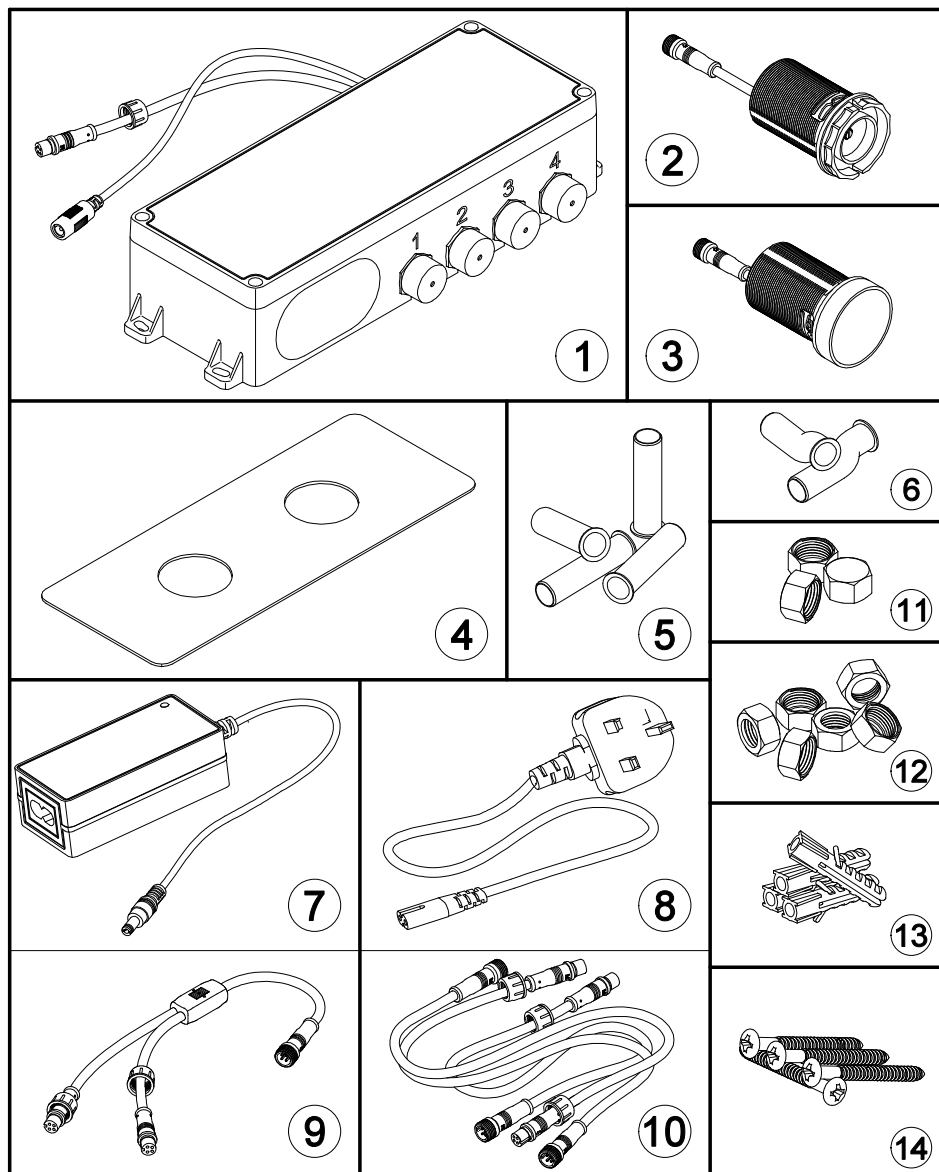
- The product need a constant supply of water at a stable temperature delivered at least 1 bar of pressure. Other products like mixers in the house should not significantly affect either the temperature or flow. If a pump is used to boost pressure in a Gravity fed system, it should be installed on the supply side of thermostatic shower valve. Ensure that all instructions are followed for a successful installation.

Control and Display Handles

- The handles must not be installed in situations where the room temperature is likely to fall below 5°C or rise above 40°C. The handles are water-proof and are powered by a low voltage supply, so can be installed in a showering room safely.

02.Pack Components

Please check the components in the box and keep them properly to avoid any loss.



Components list :

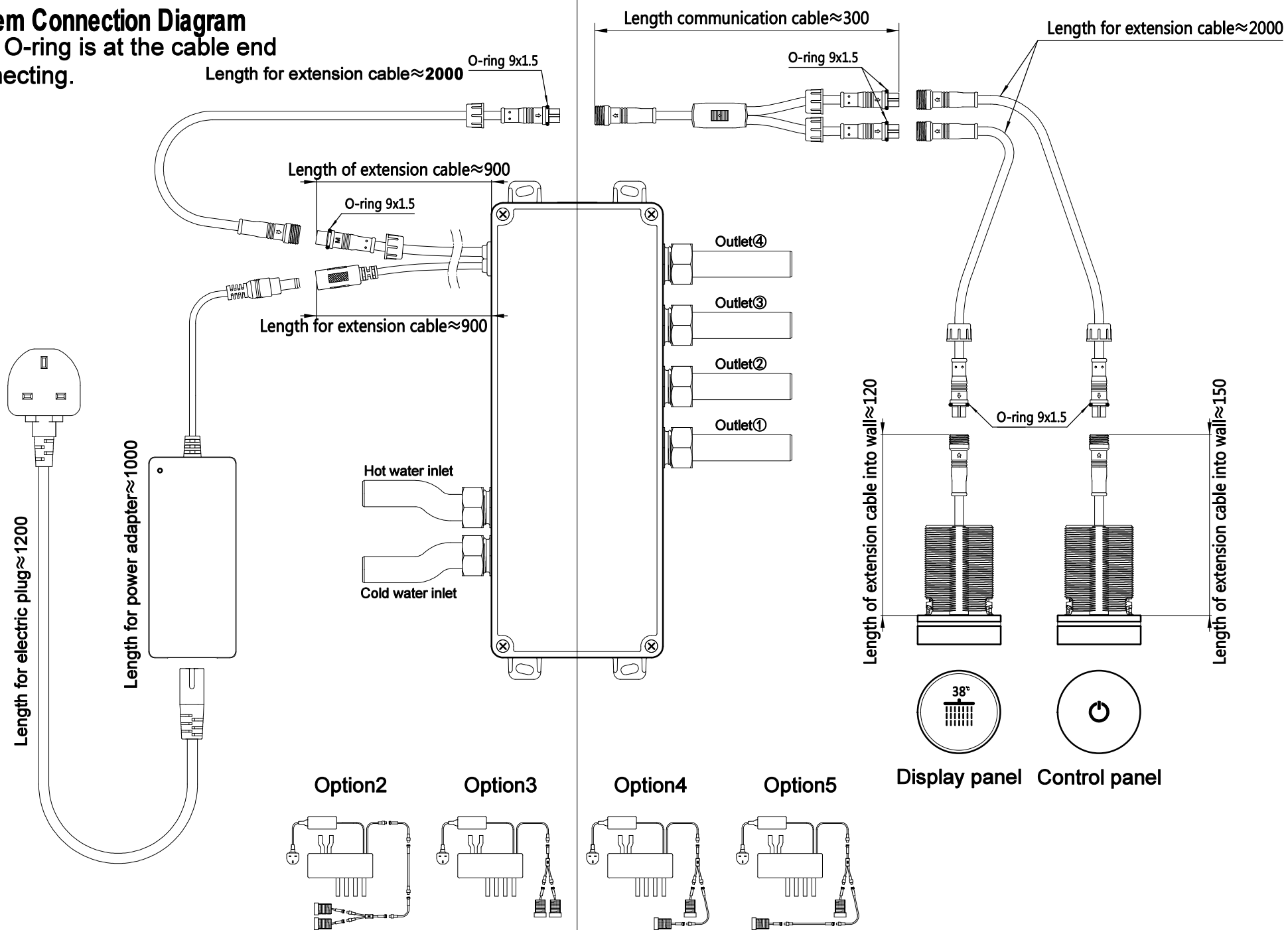
NO.	name	size	quantity
1	Thermostatic valve/ Shower box		1
2	Control panel		1
3	Display panel		1
4	Face plate		1
5	Copper tube (straight)		4
6	Copper tube (crooked)		2
7	Power Adapter	length: 1m	1
8	Electric plug	length: 1m	1
9	1 to 2 Communication cable	length: 20cm	1
10	Extension cable	length: 2m	3
11	Plugs		3
12	Locking nut		6
13	Wall plugs	Ø6×30	4
14	Screws	M4×40	4

Other pack components:

NO.	name	size	quantity
1	Instruction manual		1

3-2. System Connection Diagram

Make sure O-ring is at the cable end when connecting.

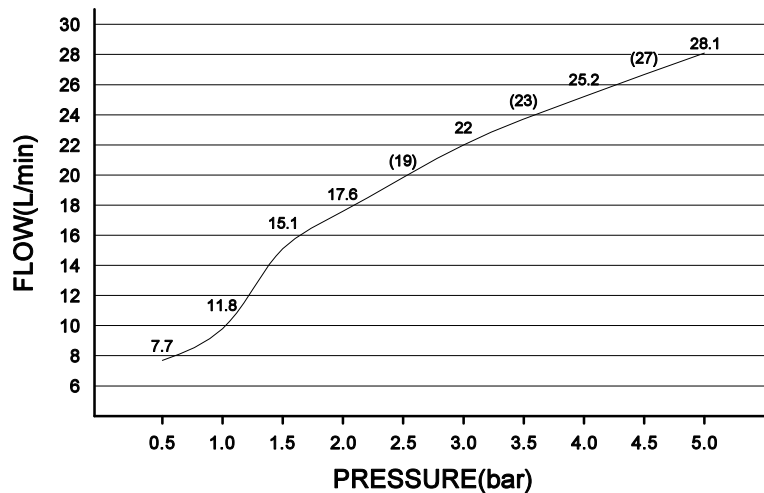


3-3. Flow Performance

a) Below data is based on the same pressure from hot and cold water inlet.

b) Below data is obtained when inlet cold water temperature is at 20°C, and inlet hot water temperature is at 65°C, mixed outlet water at 38°C.

c) Below data is from thermostatic valve control box outlet, not from the final tap.



3-4. Technical Specification

Electrical Parameters

1. Input supply voltage	AC110V~230V 50Hz~60Hz
2. Supply Voltage of thermostatic valve & Control handle & display panel	DC12V
3. Maximum load	24W

Water pressure

Static pressure for cold water supply	1bar~10bar
Static pressure for hot water supply	1bar~10bar
Dynamic pressure for cold water supply	1bar~5bar
Dynamic pressure for hot water supply	1bar~5bar
Outlet water flow rate (3 bar)	22L/min

Temperature

Temperature setting range	25°C — 45°C
Minimum temperature	fully cold water
High temperature Protection	50°C
Hot water inlet temperature	55°C — 75°C
Cold water inlet temperature	5°C — 25°C
Room temperature	5°C — 40°C

Safety information

1. Power outage protection shutdown time	≤3s
2. Cold water supply failure protection	≤2.5s
3. IP Rating	IP65

04. Installation Instructions

- a) Please make sure that the installation environment and installation personnel meet the preceding requirements.
- b) Below installation position and size data are for reference only, Final installation depends on the actual decoration layout.
- c) In order to suit with your installation layout, the pipework spare parts should be purchased locally.

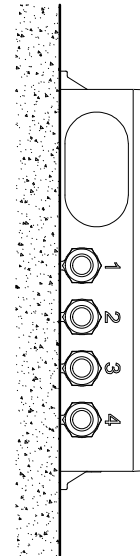
4-1. Installation for thermostatic valve

- a) Please read “Pipe Work, Cables and Thermostatic valve” on page 2 carefully.
- b) The thermostatic valve must be located at a place with easy access for future maintenance, and not to be sealed into the wall.
- c) To achieve an aesthetic effect, we recommend installing the thermostat inside the bathroom cabinet, on an easily removable integrated ceiling, or even on the exterior of the bathroom wall (note: not outdoors). However, it is important to ensure that the distance between the thermostat and the water outlet is not too far apart; it is advisable to keep the length of the pipeline between them within 2 meters, as this may otherwise affect your product experience.
- d) To achieve high-quality sealing, we recommend connecting all inlet and outlet pipes with flexible hoses.

⚠ Please pay attention to the fixing position of thermostatic valve:

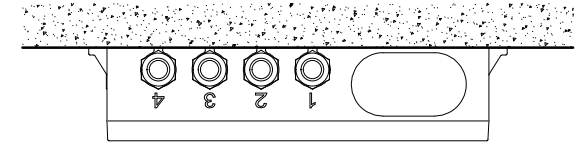


perpendicular to the ground

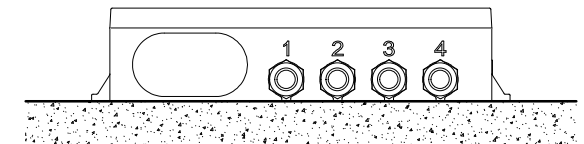


Upside-down installation

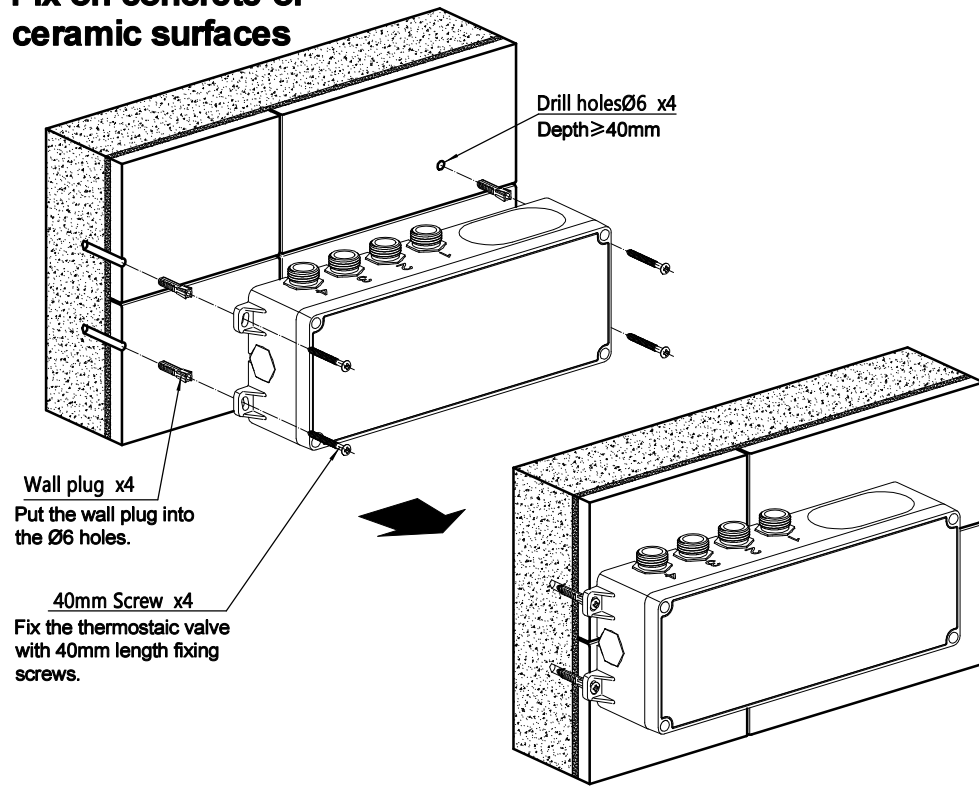
This will affect the water flow



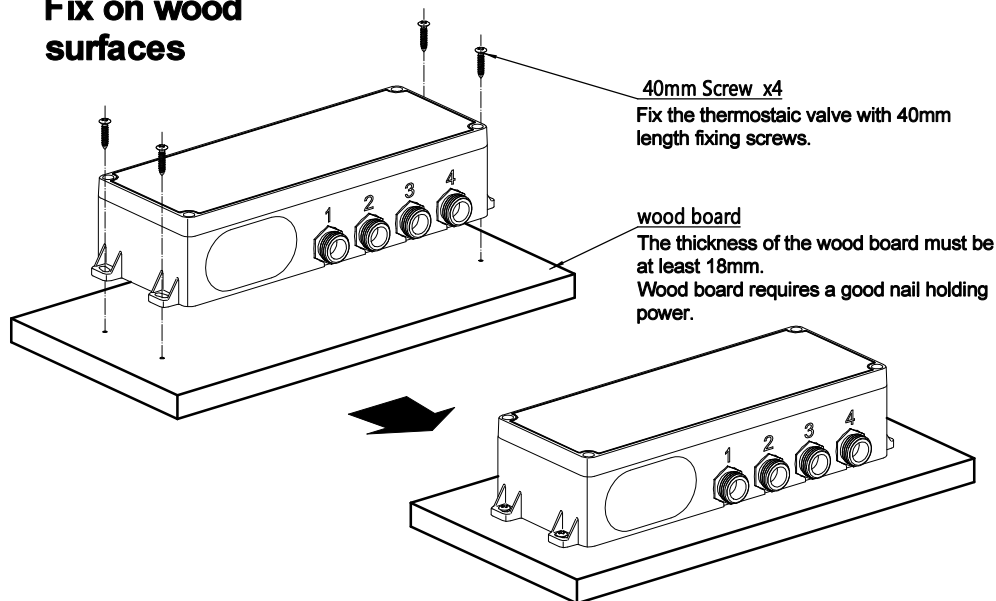
A fixed way of mounting on a countertop or other level floor



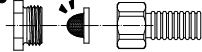
Fix on concrete or ceramic surfaces



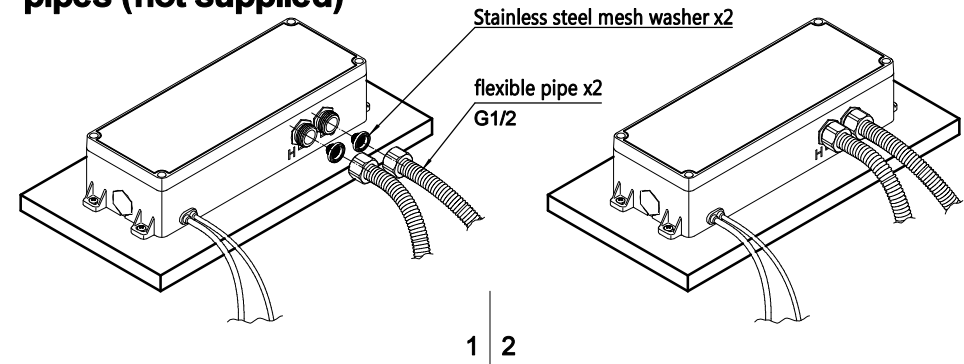
Fix on wood surfaces



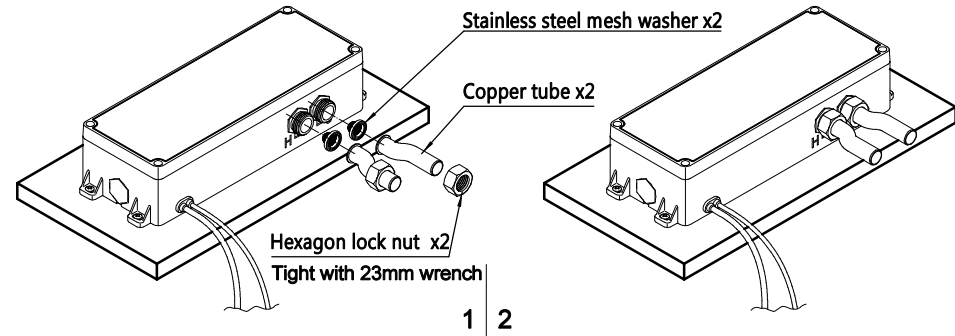
Water inlet connection procedure

- When installing, please pay attention to the direction of the stainless steel net: 
- In order to suit with your installation layout, the pipework spare parts should be purchased locally.
- Connect the hot water supply to "H" end, and cold water supply to "C" end.

OPTION 1: Water inlet connection using flexible pipes (not supplied)

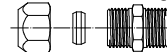


OPTION 2: Water inlet connection using copper pipes (supplied)

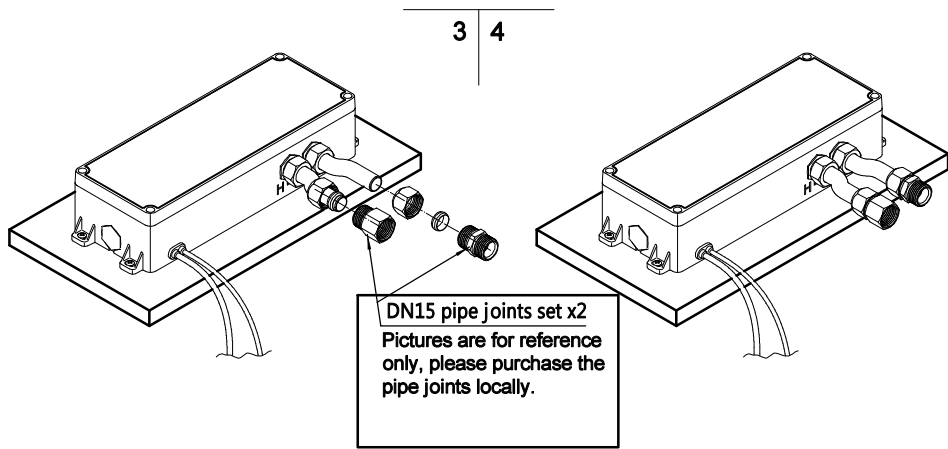


*pipe joints contains the spare parts as bellow:


lock nut, sealing ring, connector



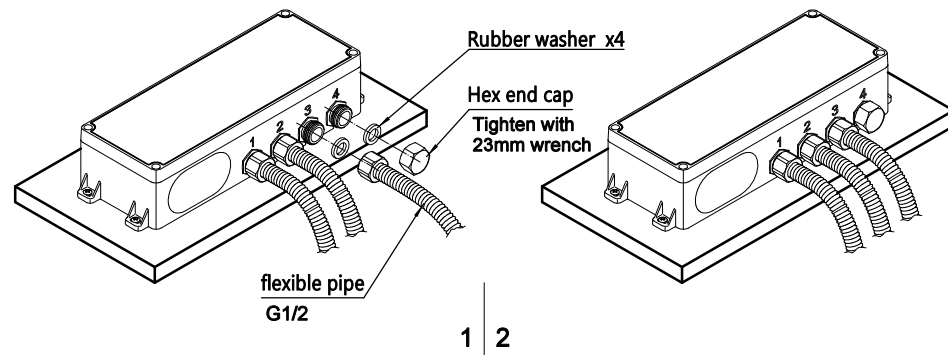
(Images are for reference only)



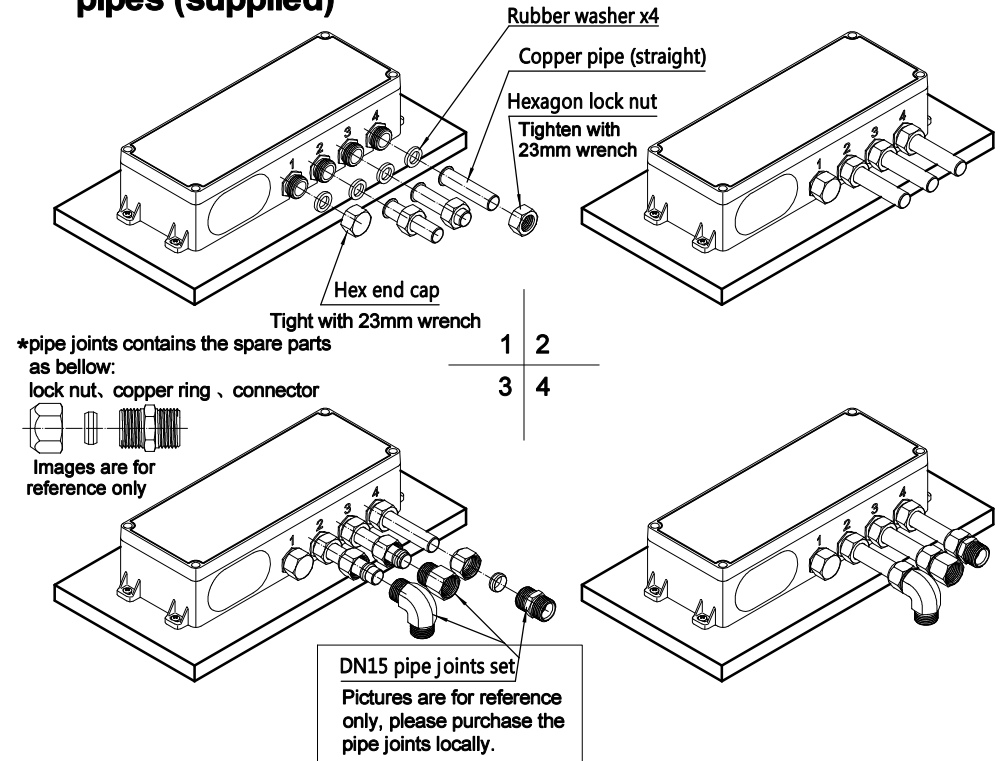
Water outlet connection procedure

- a) In order to suit with your installation layout, the following flexible pipes and pipe joints should be purchased locally.
- d) Choose the outlets according to your need, the outlet which is not needed must choose , and use a hex end cap to block the water outlet accordingly.

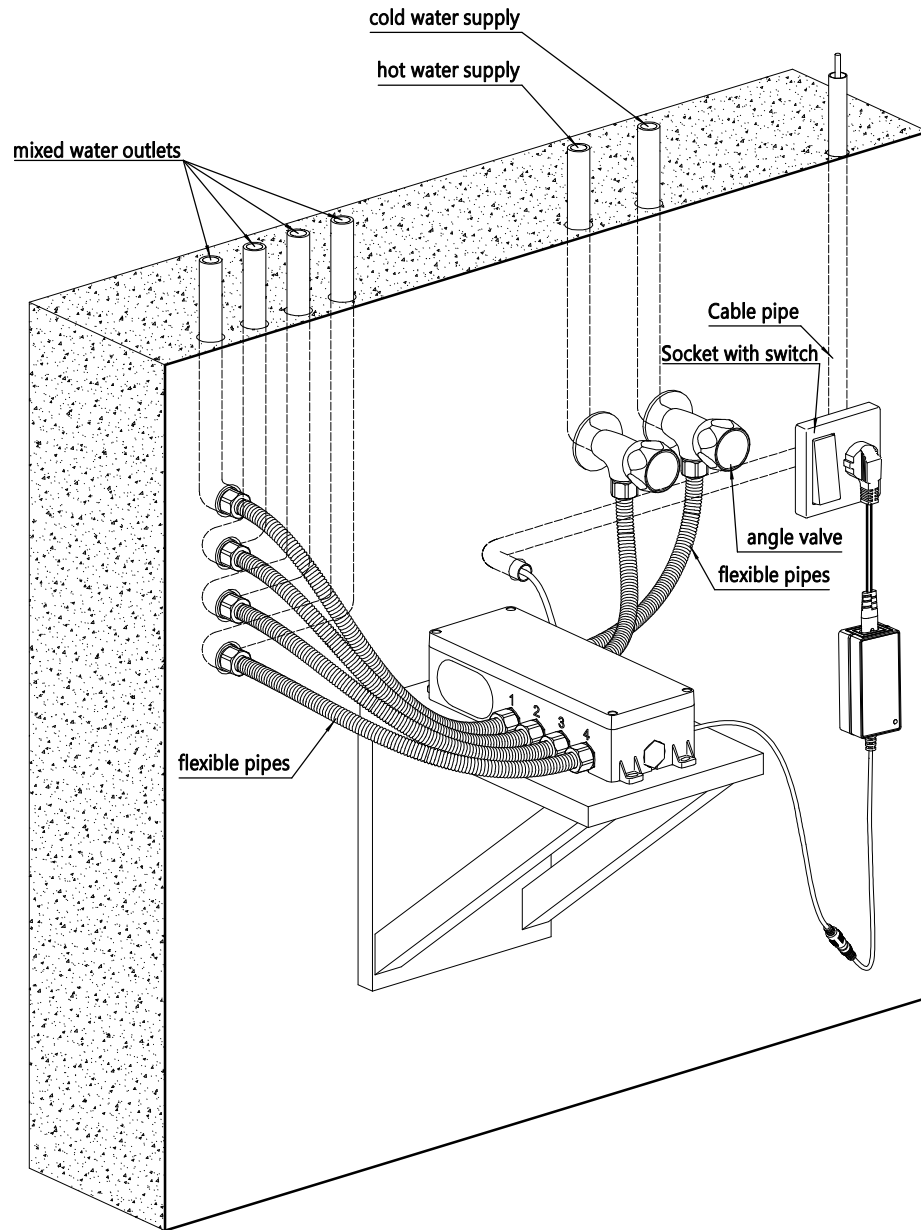
OPTION 1: Water outlet connection using flexible pipes (not supplied)



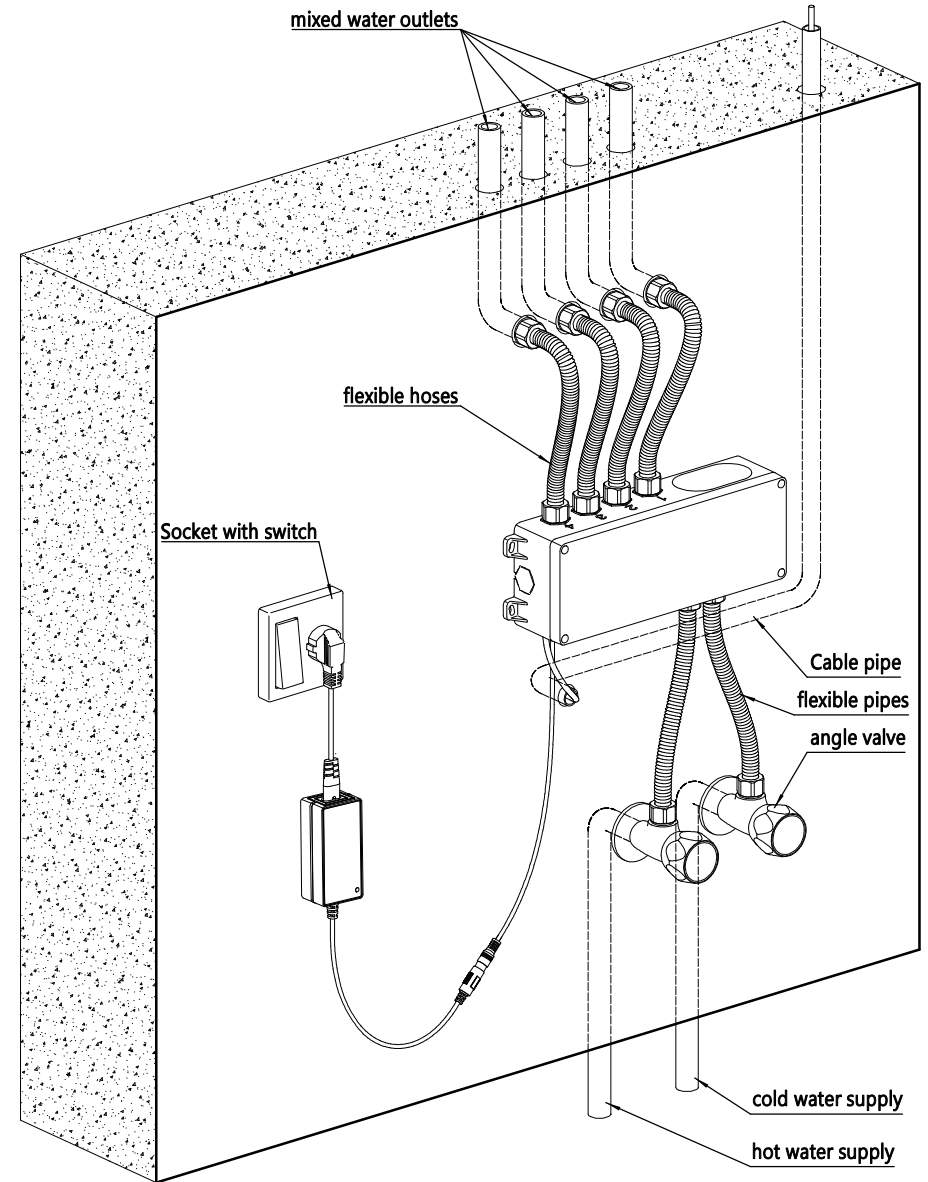
OPTION 2: Water outlet connection using copper pipes (supplied)



Suggested Installation Option 1



Suggested Installation Option 2



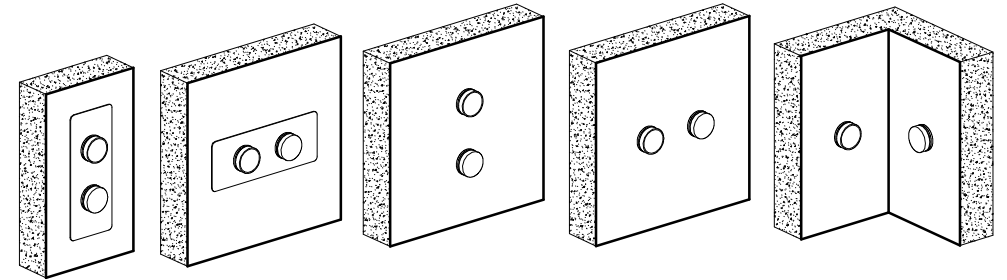
4-2. Installation for control handle and display panel

- a) Please read “Pipe Work, Cables and Thermostatic valve” on page 2 carefully.
- b) The control handle and display panel are powered by a low-voltage power source and waterproof overall, allowing it to operate in wet area.

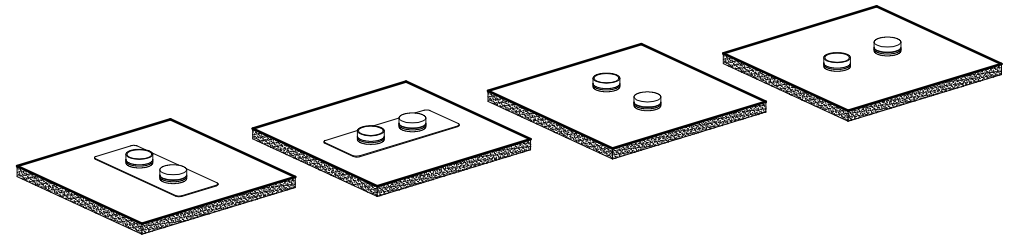
Installation layout

- a) The installation method of control handle and display panel should be based on your decoration layout, combined with reference to the cables connection scheme on page 7 of this manual, and calculate the wiring length before installation.
- b) If the cable length does not meet your requirements, please contact the merchant to buy extra cables.
- c) The following control panel and display panel installation schemes are for reference only, according to your preferences to plan the location.

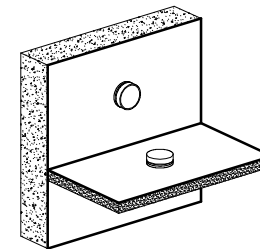
Wall mounting ways



Countertop mounting ways



Countertop and wall mounting ways



05. Pre-setting and Operation Instructions

5-1. Outlet marking

a) Menu description table:

function	basin mixer	bath mixer	rain shower	rain shower	waterfall shower	body jet	handset shower	spray shower	outlet block
Icons									

b) When you see "01" on the screen, that corresponds to "1" outlet on the thermostatic valve , then 02 03 04 with the same principle.

5-2. Commissioning

a) When the system is in OFF mode, press and hold the control handle for 5 seconds to enter the menu.

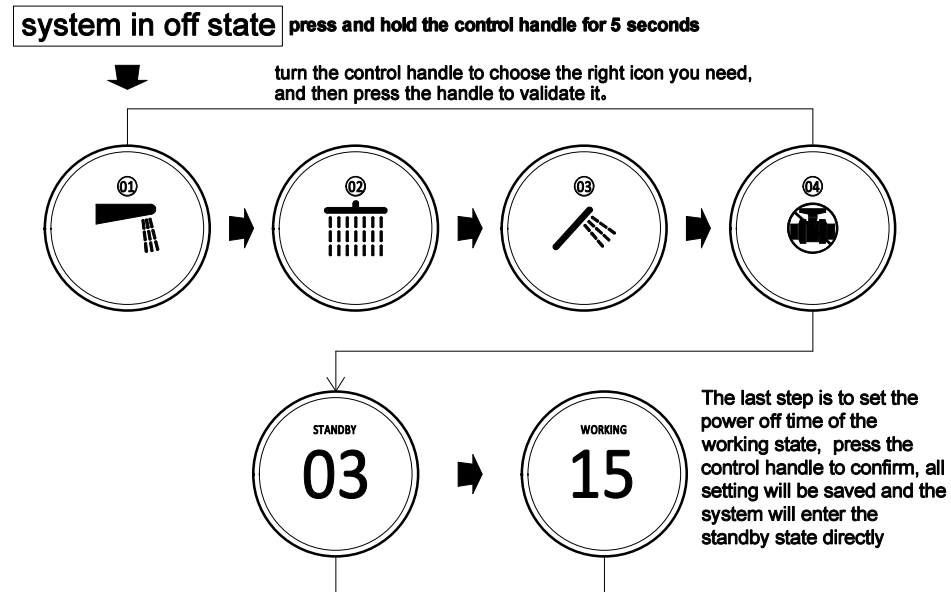
b) you will see 01 and an icon on the screen, turn the control handle clockwise or anti-clockwise to choose the right icon you need, and then press the handle to confirm. then system will automatically enter the 02 and an icon on the screen, repeat above setting steps to complete the rest 02 03 04 outlets.

c) You must set four outlets sequentially, you can not skip any of them once you enter the setting menu, the outlet which is redundant or not needed must choose , and use a hex end cap to block the corresponding water outlet, and the system will close that water outlet.

d) Once finished setting four water outlets, system will automatically enter the Standby time setting process, turn the control handle clockwise to choose the right time period you need, The standby time can be adjusted between 3 to 10 minutes, and then press the handle to validate it.

e) After the standby time is setted, the system will automatically enter the power off time of the working state, the automatic power off time will be adjusted by turning the control handle clockwise. The adjustable range of the automatic power off time is between 1 to 99 minutes, Press the control handle to confirm the automatic power off time.

f) You can reset the outlet function freely, but remember that the system should be off before resetting.



5-3. Basic Operation

a) When you turn off the system after each using, the system will automatically remember your current water outlet and temperature, so that you do not need to repeat the setting next time.

b) If no operation is taken and the time meets the automatically power off time, the product will be powered off automatically.

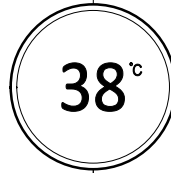
c) The colour of the LED light will change with the temperature adjustments. The higher the temperature, the deeper red of the colour, and the lower the temperature, the lighter blue of the colour.

swap interface
swap the setted outlet and icon



swap the setted outlet

press and turn at the same time
Release to back



Adjust temperature

turn the knob
Back in two seconds

Fully cold water mode

1. In the standby state, adjust the temperature to 25°C, and then turn the control handle anti-clockwise, you can enter the fully cold water state (the cold temperature will be equal to the cold water supply at your home).
2. In the fully cold water mode, the temperature shows "COLD".
3. The fully cold water state can only be switched in standby mode.

temperature adjusting interface

Adjust setted temperature from 25-45°C

Single press to turn on the water

the system off state

Single press to turn on

1. Double press to turn off
2. Set the automatically power off time

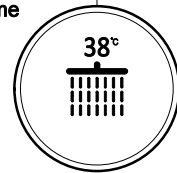
standby mode

Single press to turn on the water

Single press to turn off the water

working mode

1. Double press to turn off
2. Set the automatically power off time

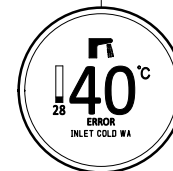


standby interface
Display current water outlet and adjusted temperature



Working interface

1. Real-time outlet temperature is displayed in the middle
2. The set temperature is displayed on the left. In the working state, turn the control handle to adjust the temperature, and the temperature changes accordingly.
3. The current outlet in using is displayed above the current temperature.



When the water supply fails or the system fails to operate normally, a warning will be displayed at the bottom of the working interface and the cause of the failure will be displayed in scrolling.

06. Trouble Shooting

Before any electrical connections are made, the power must be turned off. Any electrical maintenance must be carried out by qualified personnel with relevant qualifications.

NO.	Error message or functional issue	Possible Causes	Solutions
1	No Display	No Power supply	check and connect the power supply
		No Signal	check and connect the extension cable
		LCD screen error	replace the LCD screen
2	Control panel no response	No Power supply	check and connect the power supply
		No Signal	check and connect the extension cable
		Control panel error	replace the control panel
3	Inlet hot water temperature is too low	No hot water supply	check and turn on the hot water supply
		Inlet hot water temperature is too low	adjust inlet hot water temperature to be between 55°C and 75°C
		Check valve in hot water inlet is blocked.	check and clean
		Hot water inlet filter is blocked	check and clean
		Inlet cold water pressure is too high	Reduce inlet cold water pressure ≤5bar
		Thermostatic valve is too far away from the hot water supply	Reduce the distance
4	Inlet hot water temperature is over 85°C	Hot and cold water inlets are reversed.	check and re-connect hot and cold water supply.
		Inlet hot water temperature is over 85°C	check the hot water supply and adjust inlet hot water temperature to be less than <75°C

NO.	Error message or functional issue	Possible Causes	Solutions
5	Inlet cold water temperature is too high	No cold water supply	check and turn on cold water supply
		Inlet cold water temperature is too high	adjust inlet cold water temperature less than <25°C
		Check valve at cold water inlet is blocked	check and clean
		Cold water inlet filter is blocked	check and clean
		Inlet hot water pressure is too high	reduce inlet hot water pressure ≤5bar
6	inlet temperature sensor failure	Hot and cold water inlets are reversed	check and re-connect hot and cold water supply. restart the system after room temperature is above 0°C
		Room temperature is less than 0°C	replace sensor or thermostatic valve
7	Outlet temperature fluctuates	inlet hot and cold water pressure is not stable	check and ensure the water pressure is stable
		inlet hot and cold water temperature is not stable	check and ensure the water temperature is stable
		hot temperature sensor failure	replace the sensor or thermostatic valve
8	Repeated banging sounds from thermostatic valve	inlet hot and cold water pressure is not stable	check and ensure the water pressure is stable
		inlet hot and cold water temperature is not stable	check and ensure the water temperature is stable.
		hot temperature sensor failure	replace the sensor or thermostatic valve
9	flow from the outlet water is too small	Check valve at the cold or hot water inlet is blocked	check and clean
		Cold or hot water inlet filter is blocked	check and clean
		Pressure from Cold or hot water supply is too low	Adjust inlet cold and hot water pressure >1bar
		Cold or hot water pipe is blocked	check the pipe
		final outlet (e.g. mixer or handshower) is blocked	check and clean final outlet

NO.	Error message or functional issue	Possible Causes	Solutions
10	thermostatic valve leaking	pressure from hot or cold water supply is too high	Reduce inlet hot and cold water pressure $\leq 5\text{bar}$
		inlet seal or outlet seal is damaged	replace the seal part or thermostatic valve
11	Water leaking from one or more outlets	the solenoid valve inside thermostatic valve is blocked	replace solenoid valve or thermostatic valve
		the solenoid valve inside thermostatic valve is failed	replace solenoid valve or thermostatic valve
		hot or cold water inlet check valve failure	replace check valve or thermostatic valve
12	No water comes out from final outlet	Hot and cold water supply failure	check and turn on the water supply
		the solenoid valve inside thermostatic valve is failure	replace solenoid valve or thermostatic valve
		hot or cold water inlet check valve failure	replace check valve or thermostatic valve

07. Care and Maintenance

1. The panels and faceplate should be cleaned with a soft damp cloth only.
2. Chemical or abrasive cleaners can damage the surface finish.
3. check the thermostatic valve regularly to ensure that there are not any leaks and that electric cables are not damaged.