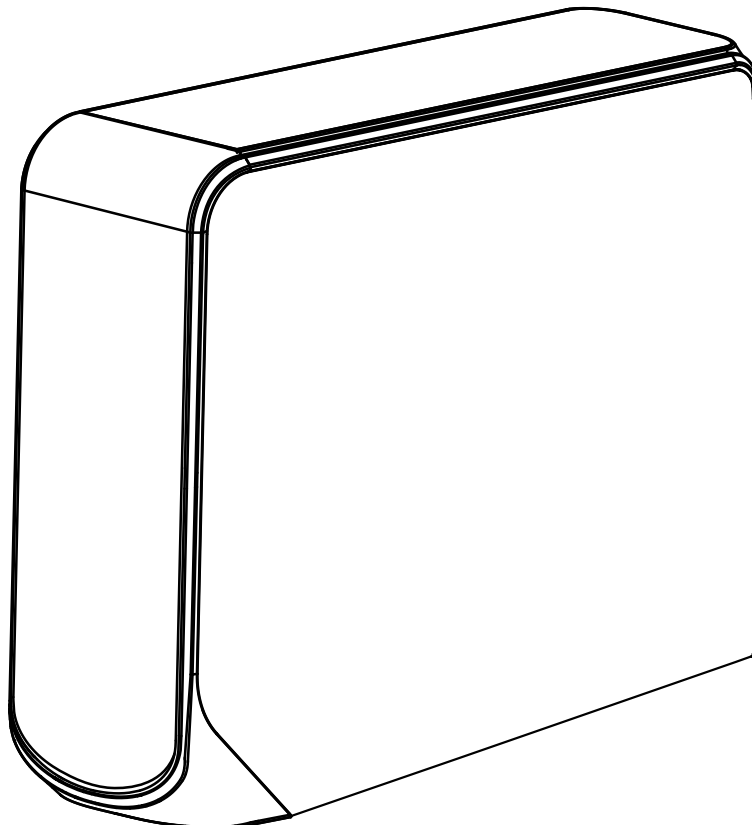
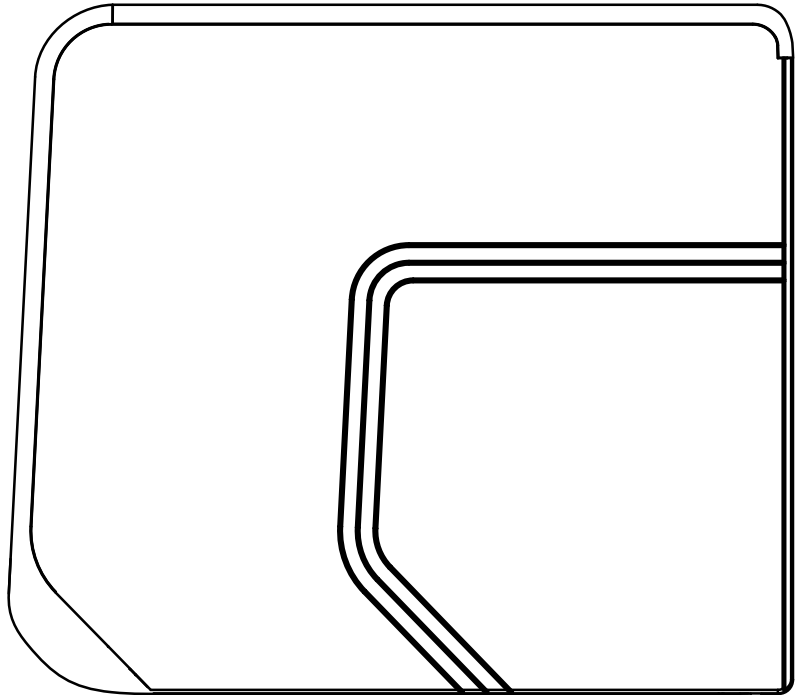
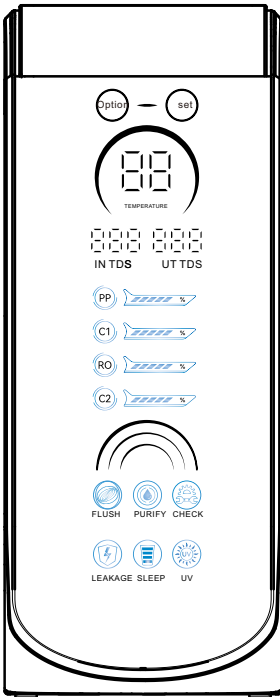


# Installation and User Manual

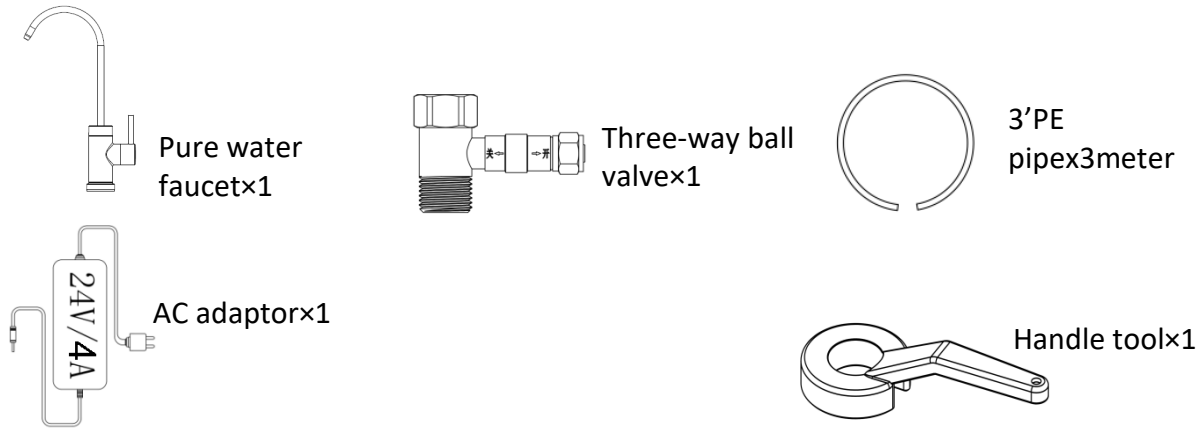
## Reverse Osmosis Systems

model: COSMO with built in storage tank



Please read this user manual carefully and keep it properly before using the product.

### Parts list



### Operating instructions

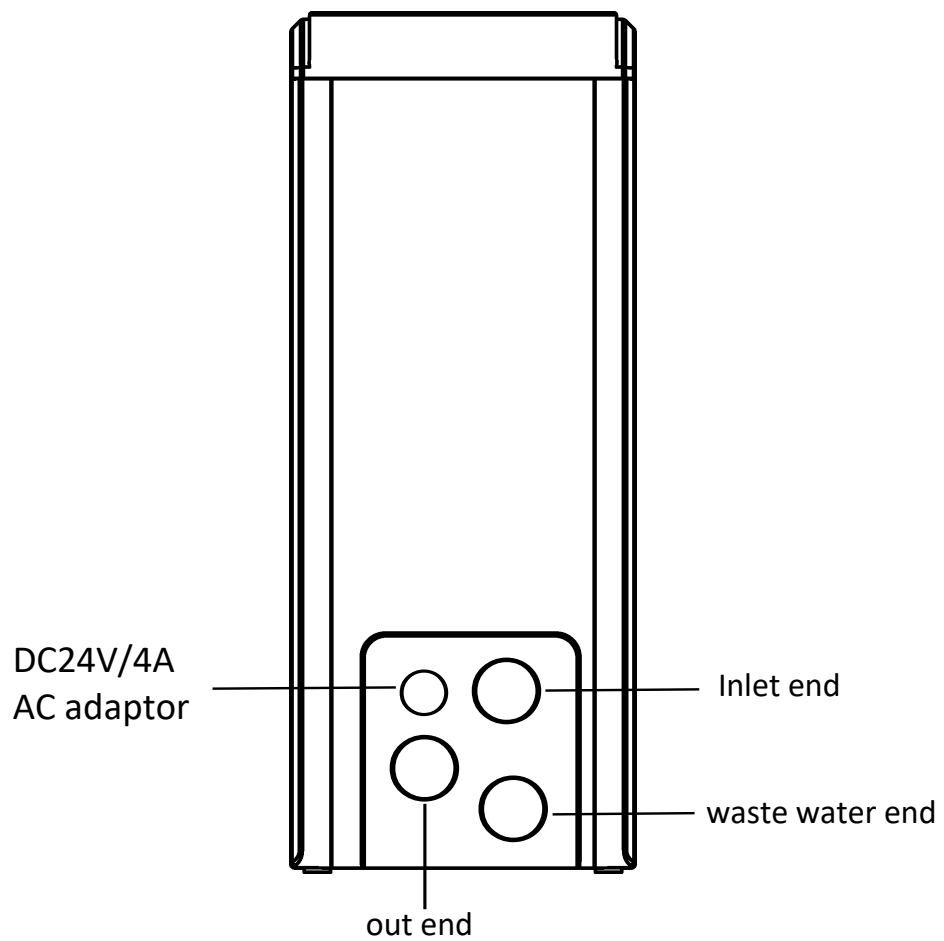
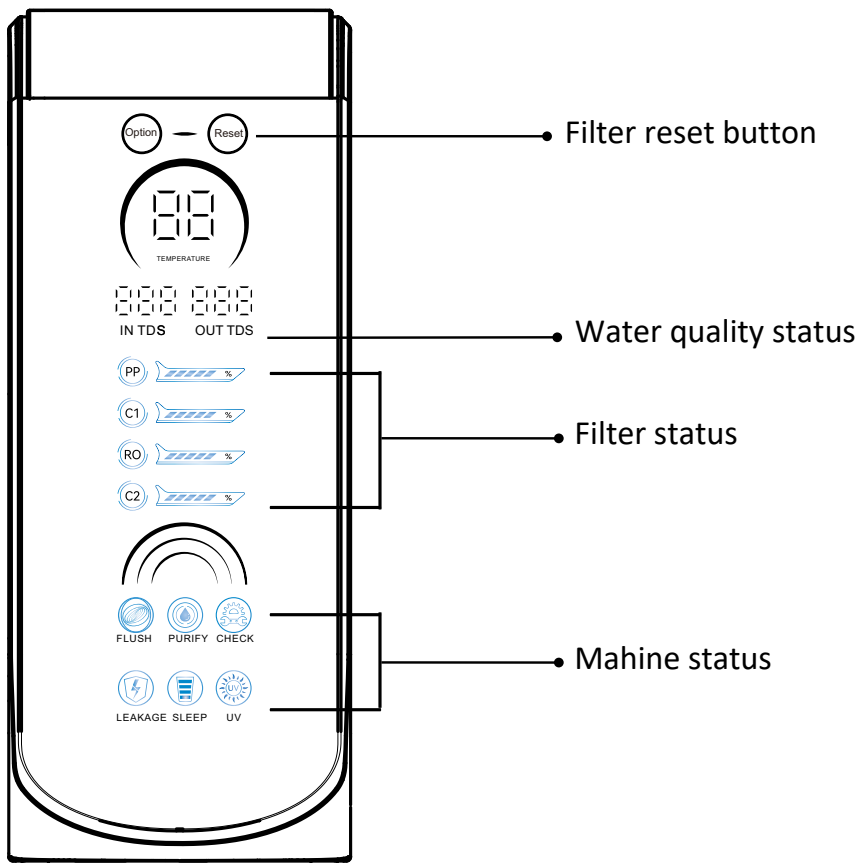


#### Purified water

After the product installation is completed, turn on the clean water faucet switch to discharge pure water, and turn off to stop.

#### Note

After the first startup of the product, perform a 30 minute rinse to fully purify the water quality. Pure water can only be consumed after the rinse process is completed. (same process when replacing the filter element)



# 1、 how to use the Machine

- 1、 All lights are white. The display screen is powered on from bottom to top, the bottom line lights up, the second to last line lights up after a delay of 0.5 seconds, and then lights up after another delay of 0.5 seconds... Finally, it lights up completely and lasts for 1.5 seconds.
- 2、 Touch button function: The "Reset" button is always on, and the key is pressed for 3 seconds to enter the filter element setting state (see 2.4. for details). Click to perform a strong flush, 88 displays the flushing countdown, the duration is 30 seconds, and the flushing icon flashes for seconds. Press again within 30 seconds to stop flushing. The "Option" button is always on. In different states of the machine, long press to select the micro-wastewater mode (see 2.6. for details) and the reflux mode (see 2.8. for details).
- 3、 and "Temperature C" are always on during operation, showing the water temperature.
- 4、 The word "FLUSH/PURIFY/CHECK/ LEAKAGE/ SLEEP/UV button is long-lit, and the icons except "sleep" and "UV" (UV only works during water production) are long-lit when working; other corresponding icons flash for seconds when in working state.
- 5、 Backflow flushing mode: the backflow valve (original low-pressure switch line) is energized for 120 seconds, and the flushing valve is energized for 10 seconds at the same time, and the pump and water inlet valve do not work.
- 6、 The raw water TDS and pure water TDS characters are long-lit, and are displayed in real time during water production. When the IN TDS probe is not plugged in, the INTDS value is displayed as 138 and the temperature is displayed as 18 degrees (for customers who do not want to display the raw water TDS value).
- 7、 TDS adjustment method: Press and hold the "OPTION" button on PURIFY for 3 seconds, "beep-beep" twice, enter the TDS adjustment state, short press the button to cycle through the ratio 1-10-1, when 10 is selected (10 is displayed at a temperature of 88), the purified water TDS will be displayed dynamically at 10:1 above 50 (TDS measured increases by 10, and the actual display increases by 1), press and hold the button for 2 seconds to confirm and exit with a "beep"; if you want to display the real TDS value, press and hold the OPTION button again for 3 seconds, then select display 1 (display 1 at a temperature of 88). Press and hold the button again for 3 seconds to confirm, "beep" once to indicate successful switching. If "10" or "1" is selected without confirmation, it will be invalid after 8 seconds to exit the state.

## 2. Program Description

1. The machine is powered on, the buzzer "beeps" once, and the display screen lights up from bottom to top. Then rinse strongly for 30 seconds, "temperature °C" is not lit, and the high-pressure switch is determined after the rinse is completed. If it is closed, water is made, and if it is disconnected, the water is full.

2. The standby icon lights up for 0.3 seconds after the high-pressure switch is disconnected, and the TDS value is locked to the final value before standby. It will be updated in real time after 5 seconds of water production again. If the cumulative water production is less than or equal to 30 minutes (test minutes), after each standby, the flushing valve will open separately and release pressure for 10 seconds. After the cumulative water production is greater than or equal to 30 minutes, the water is full and enters the pulse flushing mode, that is, the flushing valve is closed for 1.5 seconds, stopped for 2 seconds, closed for 1.5 seconds, stopped for 2 seconds, closed for 1.5 seconds, and stopped working after 10 seconds of pressure release. During the pulse mode, the water pump and the water inlet valve (in the same group) are both working. If the standby continues for 60 seconds, it will enter the sleep mode, and only the Option and Reset button The semicircle on the light and water temperature 88 flashes for 2 seconds, and the rest is not lit; during this period, press any key "beep" and exit the standby state to wake up; wake up in case of fault.

3. Continue to standby for 900 seconds (default 15 mode) to enter the backflow flushing mode. During the period, the backflow flushing mode is interrupted when water is cut off and strong flushing is in progress. Each time the water is full and the standby is greater than 900 seconds (default 15 mode), it will only enter the backflow flushing mode once. For details on how to adjust the standby time gear to enter the backflow mode, please refer to (8. How to adjust the time gear when entering the backflow mode and the time description of all gears).

If the water is not full for 2 hours (test for 30 minutes) and the water is not full, it will be reported for maintenance, the CHECK icon will flash for seconds, the buzzer will sound 10 times, and the power needs to be turned off and restarted.

### 4. Filter element time and reset method

4.1 PP+C1/RO/C2 represent 4 levels of filter elements respectively. The filter element life time is the cumulative working time of the water pump. The life time of PP+C1/RO/C2 is

120h/270h/270h respectively. It is long on, and the corresponding level of the filter element that expires will flash. The machine can still work normally.

4.2 Press and hold the Rest key for 3 seconds to enter the filter element setting state. The PP logo and filter element will flash in seconds. Short press reset to select the filter element to be reset. After selecting, press and hold reset for 3 seconds to reset and confirm to exit. If there is no operation within 8 seconds, it will be invalid to exit the setting state.

4.3 If the filter element expires and is not reset, there will be 3 "beep-beep-beep" sounds every time water is made. After entering the reset state, the "option" key is invalid.

#### 5. Low temperature alarm

When the TDS probe (with NTC) of the raw water detects that the water temperature is less than 2 °C, the low temperature protection is executed, "88" displays "LO", the temperature flashes for seconds, and the FLUSH/PURIFY/CHECK/LEAKAGE/ SLEEP/UV button is not lit. It automatically returns to normal at 4 °C.

6. Micro-wastewater mode time gear adjustment method and all gear time description Within 30 seconds of flushing state, press and hold the option key for 3 seconds and "beep, beep" 2 times to enter the micro-wastewater gear adjustment mode. The previous setting mode (00 is the initial default gear) is displayed, indicating that it is normal mode. Press the function key to adjust the gear cycle. After selecting, press and hold the function key for 3 seconds to exit the micro-wastewater mode. If there is no operation for 8 seconds, it will automatically exit the micro-wastewater mode. After entering the micro-wastewater gear adjustment mode, the original function of the touch key is invalid.

00 Normal mode is fully lit, and the water-saving protective film characters and icons are long lit

01 Micro-wastewater mode For every 60 seconds of continuous water production, the flushing valve is closed for 3 seconds (the pump and the water inlet valve are working at this time), and only the outer circle is lit.

02 Micro-wastewater mode: For every 180 seconds of continuous water production, the flushing valve is closed for 3 seconds (the pump and the water inlet valve are working at this time), and only the middle circle is lit

03 Micro-wastewater mode: For every 300 seconds of continuous water production, the flushing valve is closed for 3 seconds (the pump and the water inlet valve are working at this time), and only the inner circle is lit.

7. When the water leakage detection board detects a leak for 2 seconds, the alarm is sounded, the LEAKAGE icon flashes for seconds, and the machine "beeps" continuously and stops, and it needs to be powered off and restarted.

In the water making state, the method to cancel the leakage protection monitoring function without opening the case is: press the two buttons of smart selection + reset at the same time for 3 seconds. The water temperature of 88 displays "00" to indicate that it has a leakage protection function. Short press "option" to select the water temperature of 88 to display 01. In these two states, the reflux valve is required to be closed

(because the factory inspection cannot determine whether the reflux valve is normal). Press and hold the "option" key for 3 seconds, "beep", and the leakage protection function is canceled. If no button is operated within 8 seconds, it is judged to be invalid and exit.

8. Each time water is made, the ultraviolet port outputs 24V, and no output is output when the water is full and flushing. The work light is long and the non-work light is off.

9. The time gear adjustment method of the reflux mode and the time description of all gears  
When the machine is in standby with full water, press and hold the option key for 3 seconds, "beep, beep" twice, and the previous setting mode (15 is the initial default gear) is displayed, indicating that it has entered the standby reflux mode. Press the option key to cycle through the gear selection. After selecting, press and hold the option key to exit the reflux mode. When entering the reflux mode, the original functions of the two touch keys are invalid. 8 seconds of no operation will result in invalid exit

00 mode: normal mode, no standby reflux mode (the yellow line of the reflux valve can be left unplugged)

10 mode: continuous full water standby for 600 seconds, enter the reflux flushing mode.

15 mode: continuous full water standby for 900 seconds, enter the reflux flushing mode. (factory default mode)

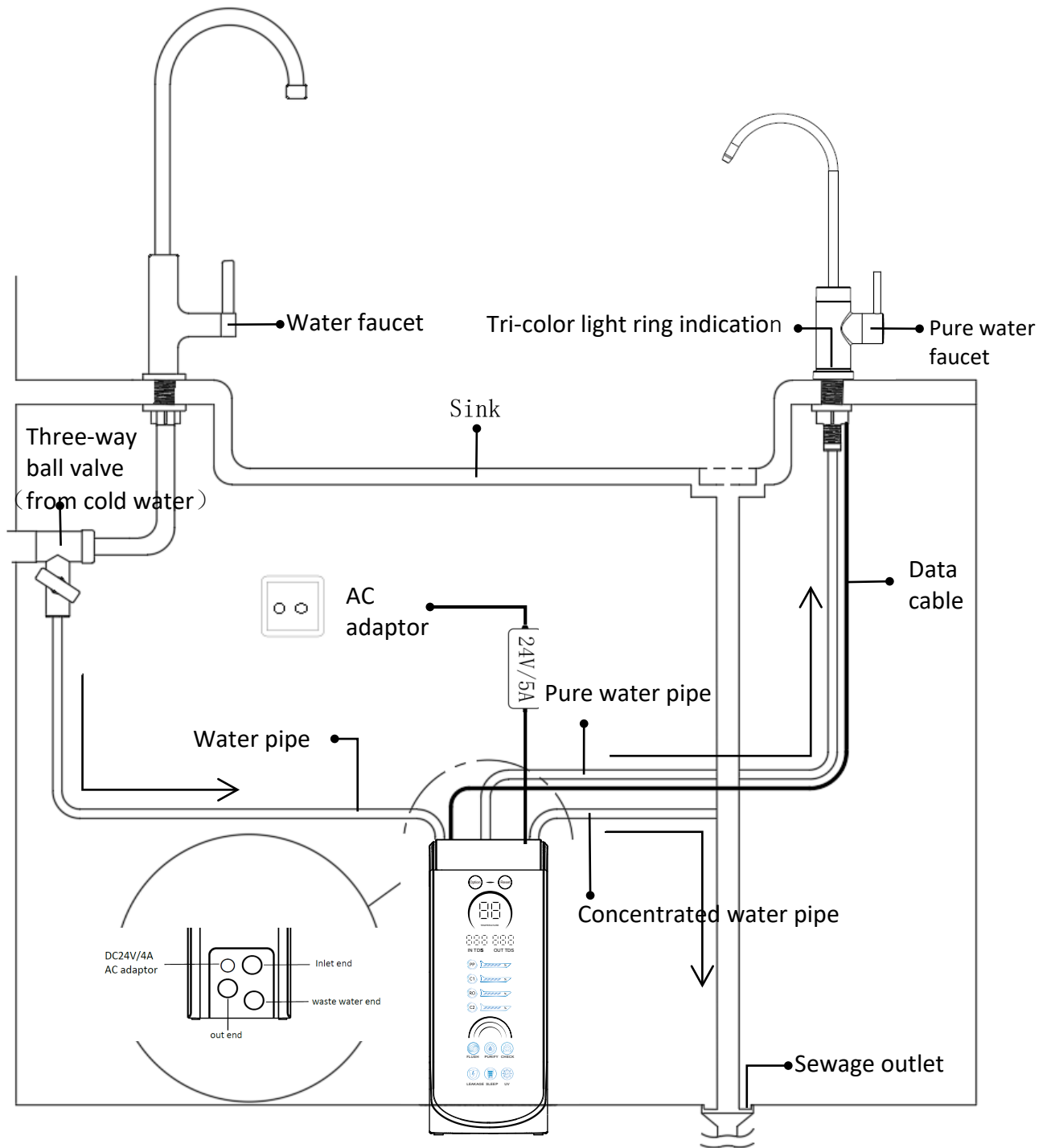
20 mode: continuous full water standby for 1200 seconds, enter the reflux flushing mode.

25 mode: continuous full water standby for 1500 seconds, enter the reflux flushing mode.

30 mode: continuous full water standby for 1800 seconds, enter the reflux flushing mode.

40 mode: continuous full water standby for 2400 seconds, enter the reflux flushing mode.

# Functional diagram



## SPECIFICATIONS

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Product Model	Model COSMO
Voltage	110V-220V~50Hz
Rated Power	25-120W
Inlet Water Pressure	0.1-0.4MPa
Working Pressure	0.4-0.8MPa
Pure Water Flow	0,7-1,0 L/Min
Rated Total Pure Water Flow	2000L
Raw Water Quality	Municipal Tap Water
Applicable Ambient Temperature	5°C-40°C

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