

Installation Guide Sparkling Water Chiller

Go Through This Guide Before Starting The Installation



Be sure to store this instruction manual in a secure location once your unit is set up. You might need to refer to it for general guidance or future maintenance.

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Instruction

Thank you for choosing our Sparkling Water Chiller. This product has been meticulously designed and manufactured to meet the highest standards of quality. When installed and maintained according to the instructions provided, it will offer you a long-term dependable service.

The Operation of The Sparkling Water Chiller

With the sparkling water chiller, you will enjoy chilled sparkling water, chilled water, and pure water, all from a single tap.

For optimal water quality, the sparkling water chiller must be connected to a high-purification filter (with a flow rate above 1L/min) to ensure the water is thoroughly cleaned before being dispensed.

The chiller can dispense up to 2L of chilled sparkling water in a single serving. When sparkling water is dispensed, the chiller automatically refills with fresh water. The temperature of both sparkling and chilled water can be adjusted between 3°C and 12°C.

The amount of sparkling water produced is highly dependent on the temperature of the incoming filtered water. When the chiller is emptied, it takes approximately 10 minutes for the sparkling water to cool down fully.

The CO₂ level in the sparkling water can also be adjusted. All CO₂ cylinders with a TR 21.4 thread are compatible with the valve we offered. Please note that the sparkling water chiller can withstand a maximum CO₂ pressure of 4.5 bar, and the CO₂ inlet size is 1/4".

Warnings

1. Contains gas under pressure; may explode if heated.
2. Keep away from heat, sunlight, open flames, and incandescent materials.
3. Do not expose to temperatures above 50°C.
4. Do not pierce or incinerate, even when empty.
5. Avoid impact or mechanical shock.
6. Use only in upright position with the supplied pressure regulator.
7. High gas concentration may cause asphyxiation – ensure adequate ventilation.
8. If multiple cylinders are present, the required room volume must increase proportionally.
9. Ventilated areas include open spaces such as kitchens or living rooms.
10. Installation must be performed by a qualified technician.
11. Ensure the power outlet and cable are safely positioned and clearly visible for connection.
12. Lift with care. Seek assistance if the unit is too heavy or awkward to handle.
13. Do not lift the unit by the front cover or any attached connections. Refer to packaging for weight information.
14. Operates in ambient temperatures of 5°C – 43°C. Ensure adequate air circulation and fit the supplied vent kit.

Application

This product is designed for household and similar applications, including:

- Staff kitchens in offices, shops, and other workplaces
- Farmhouses, hotels, motels, and similar residential environments
- Bed and breakfast accommodations
- Light catering and non-retail use

Safety & Installation Requirements



WARNING

- This appliance must be installed, operated, and maintained in accordance with the manufacturer's instructions to ensure safe operation.



DANGER
Flammable

- The machines must be earthed via the supplied power cord.



DANGER
Electric shock

- Use only the supplied power cable. It is the installer's responsibility to ensure the power outlet is correctly earthed and accessible post-installation.



CO₂ Gas
WARNING

- All installation and service work must be carried out by trained and qualified personnel. Unauthorized work may void the warranty.
- Installers must provide and install all valves as required by local codes and standards.
- Do not remove the appliance cover without first disconnecting the unit from the power supply.
- Do not install the unit outdoors or clean with water jets.
- The unit must not be exposed to weather or extreme environmental conditions.
- Assess risks before using tools or handling components, especially compressed CO₂.
- The vent tray (if provided) must be installed to allow safe exhaust of refrigerant gas in the unlikely event of a leak.
- Always flush a new filter before use.
- Do not overtighten plumbing or hose connections.
- Supplied braided hoses must not be extended.
- Do not proceed with a CO₂ cylinder change if seals are damaged.



WARNING

- Avoid cross-threading the regulator.



DANGER
Flammable

- Do not exceed the standard CO₂ operating pressure of 4.5 bar. CO₂ systems must be handled with care and in accordance with safety guidelines.



DANGER
Electric shock

- Ensure the power cord is not trapped or damaged during installation.

- If damaged, it must be replaced by a technician or qualified electrician.



CO₂ Gas
WARNING

- Do not position multiple portable power outlets or supplies behind the appliance.

- Do not place multiple portable socket-outlets or power supplies behind the appliance.

- For optimal water taste and quality, flush the system after any period of non-use exceeding 72 hours.

- Always use the new hose set provided with the unit. Do not reuse old hoses.

- Before first use, all air inside the tank must be purged. Even if some functions are not required, all pipelines must be connected during initial setup. Once the system is filled with water and cooling is successfully completed, unused outlets can be blocked.

- This system must be used with the designated tap and main unit as a set; it will not operate otherwise.

Users

The sparkling water chiller may be used by children over the age of 8 and people with reduced physical, sensory or intellectual capacity if they are supervised or have been told how to use the device safely.

People who are not familiar with the water system must be told how to use it safely and informed of the potential hazards associated with the use of the 3-IN-1 mixer tap.

Notice: Improper use may cause injury. Prevent children from playing with the tap, and do not let children clean or maintain the product without supervision. Keep the plug and the cable out of the reach of small children..

Technical Specifications

Sparkling Water Chiller

Model	SC27CA-E SC27CB-E SC27CE-E	SC27CU-E
Voltage	220V-240V~50Hz	110V-127V~60Hz
Wattage	185W	185W
Temp.Setting	3°C-12°C	37°F-54°F
Working Temp.	10°C-43°C	50°F-113°F
Refrigerant	R290/38g	R600a/58g
Capacity	Chilled water tank:2.7L / Carbonation tank:1L	
Working Pressure	0.4 MPa/58 psi	
Water Pressure	21.7-58psi (0.15-0.4MPa)	
Water Flow Initiation	2 L/min	
CO ₂ Pressure	50.76-65.27psi (0.35-0.45MPa)	
Water-proof	IP22	
Tank Material	SUS 304	

Tap

Model	TC31EA
Tap Hole Size	35mm
Working Temp.	3-35 °C
Material	Alloy+ABS

Contents of Package

1. Sparkling water tap*1
 - a. Sparkling water chiller data signal connection cable*1
 - b. Filtered water outlet hose (sparkling water chiller side)*1
 - c. Sparkling/Chilled water outlet hose (sparkling water chiller side)*1
2. Sparkling water chiller*1
 - a. Pure/Filtered water outlet hose (1/4" quick connector)*1
 - b. Chilled water outlet hose (1/4" quick connector)*1
3. a. Base rubber pad*1
 - b. Stainless steel pressing plate*1
 - c. Tube sleeve*1
4. Pressure reduce valve*1 & Empty CO₂ cylinder*1(Optional)
5. Water Filter(Optional)

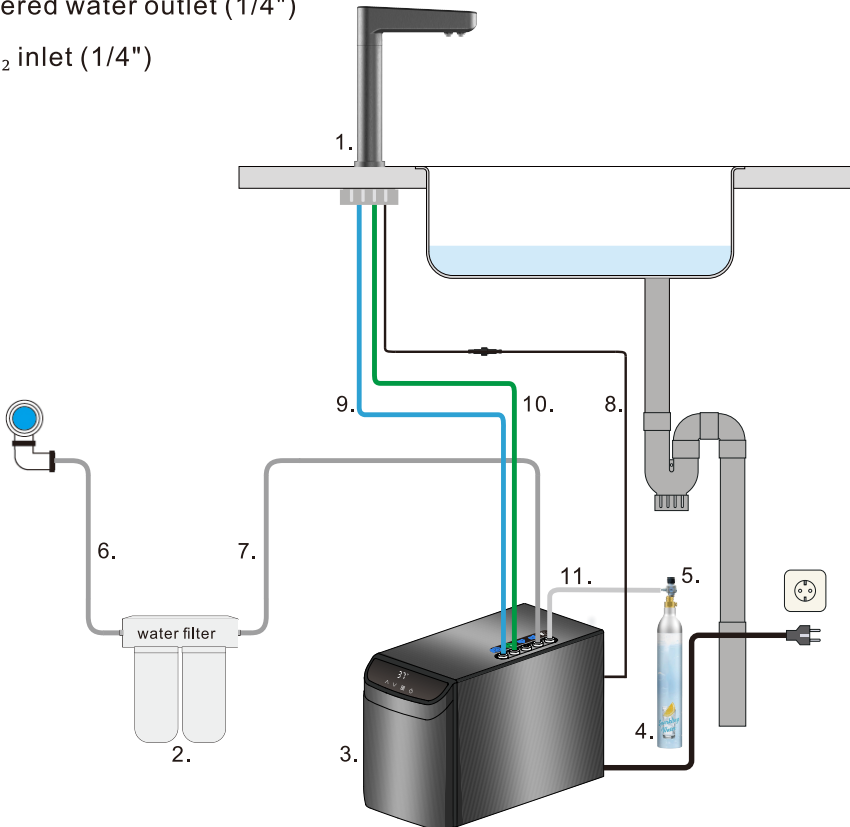
Note: The CO₂ valve interface size is 1/4".

The CO₂ cylinder needs to be filled with food-grade CO₂ at a CO₂ gas station.



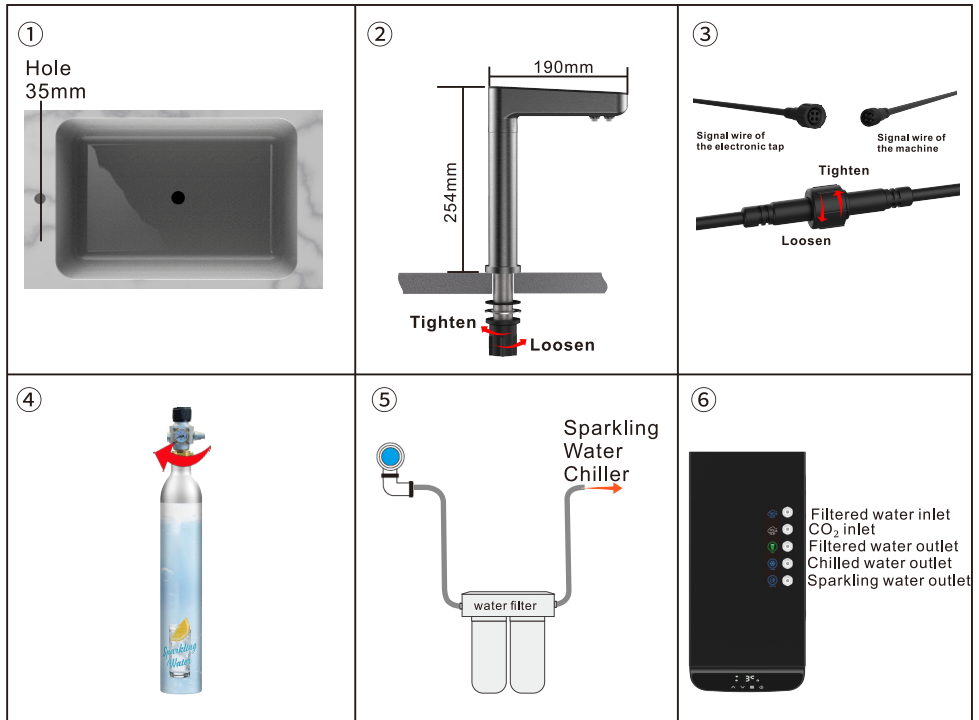
Completed Connection Diagram

1. Electronic Tap
2. Water Filter
3. Sparkling Water Chiller
4. CO₂ Bottle
5. CO₂ Valve
6. Tap water
7. Filtered water inlet (1/4")
8. Signal wire of sparkling water chiller
9. Sparkling/Chilled water outlet (1/4")
10. Filtered water outlet (1/4")
11. CO₂ inlet (1/4")



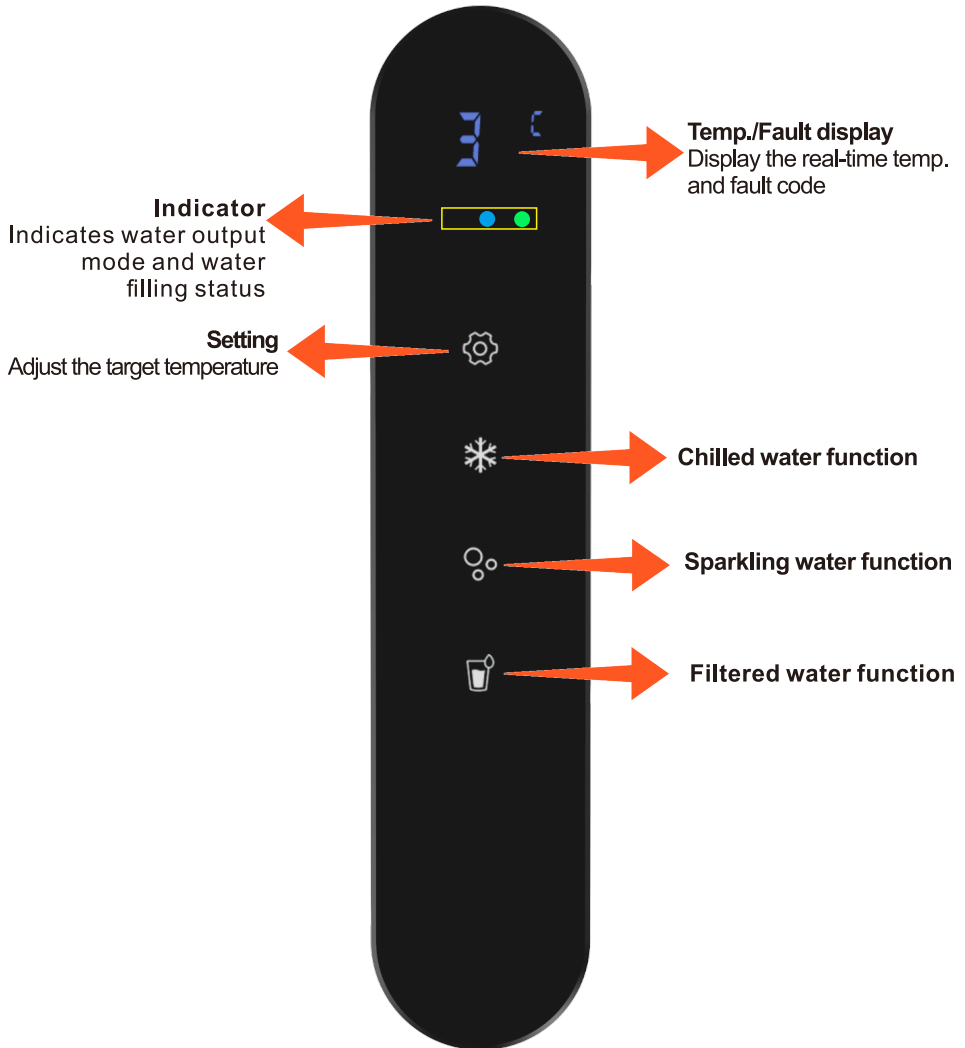
System Installation

1. Choose an appropriate location for the mixer tap. Use the correct drill bit to drill a 35mm hole through the worktop.
 2. Place all the accessories in the order shown in the diagram 2. Tighten the sleeve in a clockwise direction.
 3. Align the positions and connect both ends of the signal wire. Tighten the fixings in the direction indicated in the diagram 4.
 4. Reset the valve pointer to zero, then screw in the CO₂ cylinder as shown.
 5. Connect the pipe after the water filter.
 6. Remove the protective cap and connect the pipe according to the labels.
- Noted: Before connecting the pipes, ensure the water supply valve is close. After checking that all pipe connections are correct, open the water valve and wait for a few minutes until the blue indicator light turns on steadily, indicating that the water filling is complete.







Icon Description Guide

3-IN-1 Electronic Tap











Icon Description Guide

3-IN-1 Electronic Tap

Icon	Button Name	Press	Function description
	Chilled Water	Short	To activate: Press button (blue lights on) To deactivate: Press again (blue lights off)
	Sparkling Water	Short	To activate: Press button (blue lights on) To deactivate: Press again (blue lights off)
	Pure Water	Short	To activate: Press button (blue lights on) To deactivate: Press again (blue lights off)
	Setting	Long	Enter temperature setting mode.
		Short	Temperature setting .

Icon Description Guide

Sparkling Water Chiller

Icon	Name	Function Description
	On/Off Button	Turn on/Turn off the device.
	Switch Button	Switch temperature unit.
	Adjust Button	Increase set temperature.
	Adjust Button	Decrease set temperature.
	WiFi Light	WiFi Light is steady when connected. Flashes during network configuration. Not shown without WiFi.
	Temp. Display	Displays the real-time water tempe. When entering temp. setting mode, it shows the set temp.
	Cooling	The light is on during cooling.
	CO ₂ Indicator	When the "CO ₂ Indicator" lights up, it indicates that the CO ₂ cylinder is running low and needs to be replaced promptly.

Operating Instructions

3-IN-1 Electronic Tap

6. Temperature Setting Function

(1) Enter Setting Mode

When the machine is powered on, press and hold the SET button for 3 seconds until the temperature display starts flashing.

This indicates that the cold water temperature can now be set.

(2) Adjust Temperature



Press the SET button briefly to decrease the temperature by 1°C per press (following the same logic as the cold water unit operation).

Once the desired temperature is set, stop pressing the SET button.


When the temperature display stops flashing, the setting is confirmed.


Operating Instructions


Sparkling Water Chiller

1. Power On/Off: In the off state, press and hold “” to turn on; in the on state, press and hold “” to turn off.

2. Temperature Setting: In the on state

Press “” to increase the temperature from the current setting by increments: 3°C, 4°C, 5°C... up to 12°C.




Press “” to decrease the temperature from the current setting by increments: 12°C, 14°C, 13°C... down to 3°C.

3. Temperature Unit Switch: In the on state, press and hold “” to toggle between Celsius (°C) and Fahrenheit (°F).





4. WIFI Setup(Optional): When the machine has a WIFI module, it can be connected to WIFI and controlled through the mobile app,



(Scan one of the QR codes to download the WiFi control software.)


including power on/off, temperature setting, Celsius/Fahrenheit display toggle, and monitoring the machine’s status (the machine must be connected to the internet for WIFI functionality). In the off state, press and hold “” for WIFI pairing. Once connected successfully, the WIFI icon “” will light up; if there is no network or pairing fails, the WIFI icon “” will blink.

5. First Use: For first-time use, connect the water source and allow water to flow into the machine for about 3 minutes before connecting the power.

6. Water Protection: The water level is monitored; if there is no water or the water level is low, the display will show 'E0' and the machine will not work. Once the water level is normal, 'E0' will disappear, and the machine will resume normal operation.
7. CO₂ Pressure Warning: If the CO₂ pressure is insufficient, the display will show '' and sparkling water cannot be activated. Once the CO₂ pressure is normal, '' will disappear and sparkling water will function again.
8. Screen Saver: If the user does not interact with the panel for a while, the machine will enter screen saver mode, and the screen brightness will dim.
9. Power-off Memory: If the machine loses power and is powered back on, it will retain the settings before the power outage. After each power-off, the machine will start in the off state once powered back on.
10. Cooling Conditions: When the machine is turned on, it will start cooling after a short delay, indicated by the cooling icon "". Once the water reaches the set temperature, the cooling stops, and the icon "" goes off. If the water temperature exceeds the set temperature by 5°C, the machine will resume cooling to the set temperature.
11. Sparkling Water Activation: Sparkling water can only be activated when the water temperature is below 12°C and the CO₂ pressure is between 0.25-0.45 MPa.
12. Remote Control (for models with remote function): The remote control can turn the machine on/off, set the water temperature, and toggle between Celsius and Fahrenheit.

Troubleshooting Guide

3-IN-1 Electronic Tap / Sparkling Water Chiller

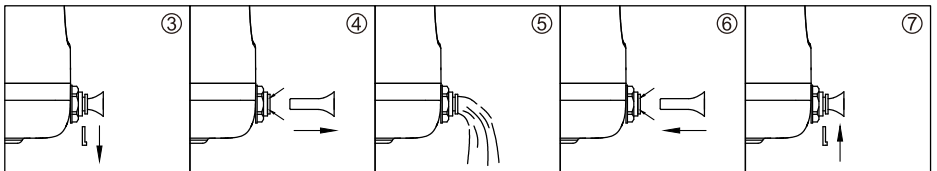
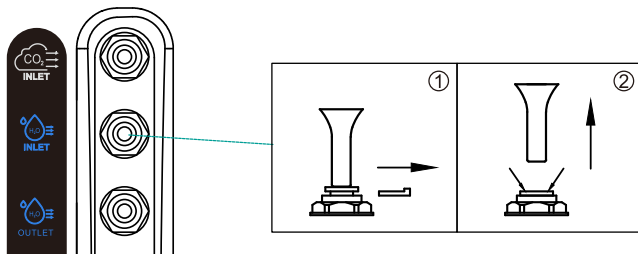
Sparkling Water Chiller' Problem (●Blue light)		
Fault	Possible Cause	What To Do
The screen is off.	The power supply is not connected.	Check if the power is connected.
	The adapter has no power output.	Check the power adapter.
	The display or PCB board is damaged.	Replace the display screen or PCB board.
E0	The water supply is not connected.	Check if the water source is connected.
	The water level is low.	Turn the cold water tap knob and fill the tank until water flows from the tap.
E3	Temperature sensor short circuit or open circuit.	Check the temperature sensor installation.
		Replace the temperature sensor.
 Lights up	The CO ₂ cylinder is not connected.	Check if the CO ₂ is leaking.
	The CO ₂ cylinder valve is not open.	Check if the valve is opened.
	The CO ₂ pressure is insufficient.	Refill the CO ₂ cylinder.
EL	Unit-faucet communication lost.	Check if the signal cable is disconnected.
		Check if accidentally entered setup mode, reselect the correct model on the tap.
E7	Liquid level detection fault.	Restart the machine.
E8	The refrigeration system is faulty and unable to cool down.	Check the refrigeration system.
E9	Anti-icing protection, the compressor runs for a long time.	Check the temperature sensor.

Maintenance

Sparkling Water Chiller

- **Cleaning the Exterior:** Regularly wipe the outer surface with a soft, damp cloth. Do not use corrosive cleaners or abrasive brushes, as they may damage the finish.
- **Preparing for Extended Non-Use (Draining the Unit):** If the unit will not be used for a long period, follow these steps to shut off power, disconnect water, and drain all stored water:

- ① **Cut Power/Water/Gas:** Disconnect the power and shut off the water/CO₂ supply valves, and elevate the unit. Remove the blue locking clip at water inlet.
- ② **Pull Out Water Tube:** While squeezing the top of the inlet fitting as indicated by arrows, firmly pull the tubing straight out.
- ③ **Remove the locking clip from the drain outlet at the rear.**
- ④ **Press the top of the drain fitting (arrow direction) and remove the flare plug.**
- ⑤ **Drain the Water:** Press the top part of the drain outlet connector as indicated by the arrow, and pull out the flared plug. Place a container under the drain port to catch the water (or attach a 1/4" PE tube to drain water directly into a sink). Wait until water stops flowing from the drain port.
- ⑥ **Reinsert the flare plug into the drain fitting.**
- ⑦ **Secure with the blue locking clip.**



End of Life Disposal



Waste electrical and electronic equipment



The symbol above indicates that, in accordance with applicable laws and regulations, your product and/or its battery must be disposed of separately from household waste. When the product has reached the end of its life, please take it to a collection point designated by local authorities.

Separating your product and/or its battery for recycling at disposal helps conserve natural resources and ensures it is recycled in a way that protects human health and the environment.

Installation, Maintenance and Warranty

This guide assumes that the sparkling water chiller has already been installed.

Please ensure that the installation procedure is followed correctly, according to the type of devices currently in use.

To install the sparkling water chiller, a main water connection and an available power socket are required. It is strictly prohibited to connect the sparkling water chiller to a water softener that lowers the pH level of the water.

We recommend cleaning the sparkling water chiller's ventilator fan annually, using a brush or vacuum cleaner.

Do not connect the sparkling water chiller if it is damaged, as this could lead to hazardous situations or environmental harm. When disposing of the device, the compressor and refrigerant within the system must be disposed of properly, in an environmentally responsible manner.

This water system is covered by a one-year warranty for the entire unit and a two-year warranty for the inner tank, which covers defects or damages due to manufacturing faults. Under normal use, eligible products will be repaired or replaced free of charge. The warranty does not cover damages resulting from improper use, accidents, natural disasters, or unauthorized repairs or modifications.

