



Owner's Manual

For Your New Biolux HOS Series

The Best Choice for Your Family's Health and Hygiene



HOS - Hydrogen & Ozone Water System

Hydrogen & Ozone Water System

Table of Contents

Introduction	To Our Valued Customers	2
	Intended Use	2
	Important Safety Warnings and Precautions	3
	Product Features	5
	Product Specifications	5
Installation	Package Contents	6
	Unit Overview	7
	LCD Display & Control Panel	8
	How to Install the Unit	11
Operation & Use	Unit Start-Up	19
	Directions for Product Use	20
	Other Functions	22
	Recommendations for Using this Unit	27
Service & Maintenance	Consumable Parts	29
	Troubleshooting Guide	30

Introduction

To Our Valued Customers

Thank you for purchasing Biolux **HOS - Hydrogen & Ozone Water System**. You have just purchased the finest, most beneficial and advanced water system in the world! Your new HOS is designed to provide you with many years of the cleanest, healthiest and most “functional” water available. There are many specific uses and benefits of this amazing water generator, so read this manual carefully to learn how to get both optimum performance out of your HOS and to protect your investment.

This product is intended for domestic use only. Please read all safety warnings and this User's Manual carefully before using this product to ensure proper product usage. (Keep the manual handy for easy reference.)

- We are not responsible for any accidents and/or malfunctions due to improper use of this product.
- Please refer to this manual often when you have questions during the use or when troubleshooting this unit.

Intended Use

This device produces **saturated hydrogen water for drinking and ozonated water for disinfection** – this is a real one machine for unlimited benefits for your home !

Just exactly what are those? Your HOS employs computer accurate low-voltage electric current and selectable proton exchange energy to perform water electrolysis through patented **Indirect Electrolytic Ozone Generation (iEOG)** cell. Inside this advanced cell, driving force from the electric current and proton exchange energy split water into pure hydrogen gas (H_2) and high portion ozone (O_3) contained oxygen gases (O_3+O_2) without using any chemicals. Then, the hydrogen water and ozonated water are to be created by dissolving these gaseous streams in water individually once usage is requested.

Therefore, you can choose between Hydrogen Water for Drinking (the upper button) and Ozone Water for Disinfection Use (the lower button):



Hydrogen Water

High-reducing power hydrogen water helps neutralize harmful free radicals, which further helps with health improvement, anti-oxidation and anti-aging.



Ozone Water

This is the natural bactericidal agent and disinfectant, effective against infestation of harmful bacteria and virus as well as dangerous chemical and pesticide residues. It is highly effective, efficient and free of residues.

Introduction

Important Safety Warnings and Precautions

WARNING

Please read these pages carefully. They contain very important information to protect you and the valuable warranty on your HOS. Please make sure you are familiar with all the safety warning and precautions associated with this unit.

DANGER

Could cause personal injury or have an adverse effect on health.

- 1. Never drink ozonated water. (Ozone water is for disinfection only, not for drinking.)*
- 2. Only use potable drinking water in your HOS. It is recommended that you use potable municipal water as source water (raw water).*
- 3. Poor water quality may have negative effects on your health and your HOS! Most potable municipal water sources will be fine in your HOS. If on hard water please ask about pre-treatment options.*
- 4. Well water and water from smaller system should be checked, and may require pre-filtering. Your HOS is not under warranty for any damage or required cleaning by hard or poor quality water deposits.*
- 5. Do not move the unit by the front cover. Move the unit by putting both hands underneath it. This will prevent the unit from falling during movement.*

CAUTION

Could cause damage to HOS and possibly void your warranty.

Risk of Fire and Electric Shock

- 1. Power and water MUST be connected at all times! Do not plug and unplug power cord repeatedly. The product's limited warranty does not cover any damage to the iEOG cell resulting from power disconnection for many times repeatedly. Reconnecting power for 36 times (or more) a year will void the limited warranty to the entire product.*
- 2. Never run hot water through this unit. Connecting it to a hot water (>35°C) source could damage the iEOG cell or other parts of the HOS.*
- 3. Protect your HOS from freezing temperatures or from direct sunlight.*
- 4. Keep the power cord and your HOS away from hot surfaces or appliances – failure to do so may result in electric shock or fire!*

Introduction

5. *To reduce the risk of electric shock, do not remove cover; no user-serviceable parts inside. Refer servicing to qualified service personnel. Remove the cover will void the warranty.*
6. *Do not try to fix the HOS yourself. Call the dealer to have it fixed by a qualified technician.*
7. *Do not use if the power cord is damaged or in a loose power outlet.*
8. *If the power cord develops a break or short, stop using the unit and call customer service to have it replaced.*
9. *Do not reconnect or splice a defective power cord as it could result in electric shock or become a fire hazard.*
10. *Do not pull the power cord. Never touch power cord or power outlet with wet hands.*
11. *Do not use power surge protectors with this unit. Use unit with its own dedicated power source.*
12. *Do not forcibly bend, squeeze, damage or crush the power cord under heavy objects.*
13. *Do not use the unit in a dusty place. This may cause the unit to malfunction.*
14. *Do not spray water on the main unit. Do not clean with a damp cloth or any chemicals, which may leak into the unit.*
15. *Do not place this unit on an uneven surface. Do not drop or use excessive force on this unit.*
16. *Place this product near a sink and always allow water to drain into the sink and drain.*
17. *When moving the unit, please be sure not to drag by the power cord as this could cause electric shock.*
18. *Please be sure to keep the power cord dust free.*
19. *Do not place ANY objects on top of this unit regardless of how small.*
20. *In case water leaks out of the unit (other than hoses) or unit is standing in a puddle of water, shut off the water supply, unplug the power cord and refer servicing to qualified service personnel.*
21. *In the event that water gets into power supply, unplug the power cord and completely dry power outlet.*
22. *In case of strange noises, burning odor or smoke, unplug the power cord immediately and refer servicing to qualified service personnel.*
23. *Replace pre-filter at least every 12 month or follow the recommendation from manufacturer in order to optimize the purification performance of this unit even if the replacement indicator light isn't turned on.*
24. *Do not poke or scratch the touch pad or LCD display with sharp objects.*
25. *Keep original packaging for storage or unit transportation.*

These safety precautions and warnings are provided at YOUR benefit to your health and home, for the safe and proper use of this unit and can prevent danger, bodily harm and/or possible damage due to misuse. Please make sure you are familiar with all the safety precautions and warnings associated with this unit. Biolux is not responsible for any damage or injury caused by not adhering to these precautions and warnings.

Introduction

Product Features

- Touch button and color LCD screen for simple operation.
- For health improvement, anti-aging and home sanitation.
- 100% pure Hydrogen and NOx-Free Ozone in outputs.
- Zero latency operation, high concentrations right on starting-up.
- Built-in gas-liquid separation and Off-gas reduction at all times.
- ORP (oxidation-reduction potential) and mv (millivolts) display system.
- ppm (concentration of dissolved ozone) display .
- Automatic self-cleaning and disinfection for drinking hygiene.
- Nontoxic, food-grade and antioxidant/ozone-compatible piping and plumbing.
- Certifications granted by major global authorities in certification of disinfection.
- Sufficient flow design for family use.
- Modern design for enhanced decor.

Product Specifications

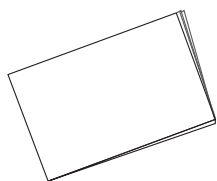
Output Features	Hydrogen Water	Ozone Water	
Touch Time	Upper button 0.2s (5min output)	Lower button 0.2s (20s output)	Lower button 2s (5min output)
Flow Rate	90 Litre / hour (1.5 Litre / min)	180 Litre / hour (3.0 Litre / min)	
Concentrations	1.1 ~ 1.2 ppm (Dissolved hydrogen)	4.3 ppm (Dissolved ozone)	4.3 ~ 1.0 ppm (Dissolved ozone)
Oxidation Reduction Potential (ORP)	-518~-558mv	NA	
Output pH	Neutral (No pH change to the input)		
Apply Inflow Quality	Potable water (Conductivity < 500 μs/cm , Chlorine residual < 0.1 ppm)		
Input Pressure	2~7 kg/cm ² (3kg/cm ² the best)		
Apply Power	AC 100-240V, 50-60Hz		
Power Consumption	60W (≤30W in standby)		
Dimension	300(W) * 165(D) * 400(H) [mm]		
Net Weight	7.5 kg (Around 9.5 kg when filled with water)		

Remark :

The output concentrations may vary depending on intervals of usage and influences from input pressure and temperature.

Installation

Package Contents



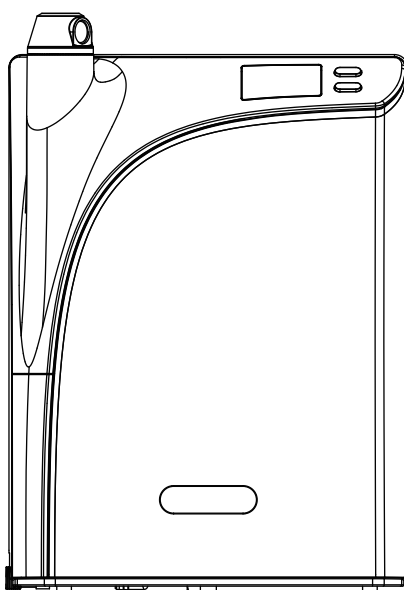
Owner's Manual (x1)



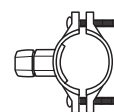
Water Outlet Tube (x1)



Input Hose (PE, white, 1.5 m)



HOS Unit (x1)



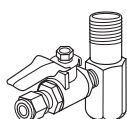
Drain Clamp



Drain Hose (PVC, black, 1.5 m)



Plumber's Tape (x1)



Connecting Adapter

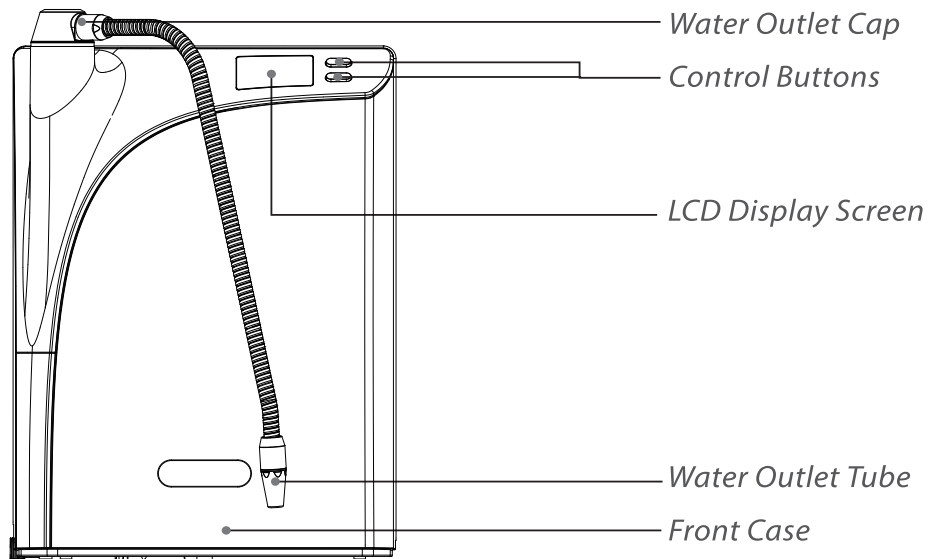


Mounting Bracket (x1) with Screws (x2)

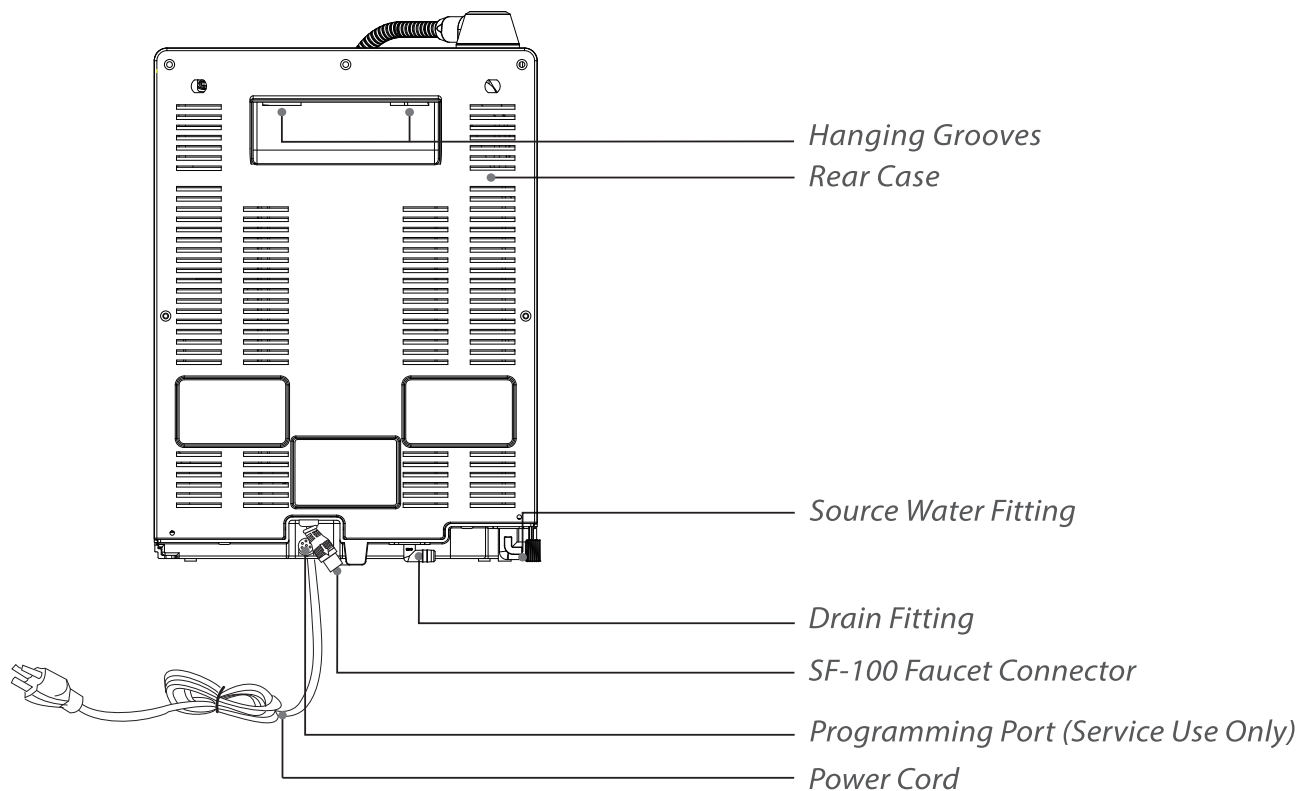
Installation

Unit Overview

Front View HOS Unit



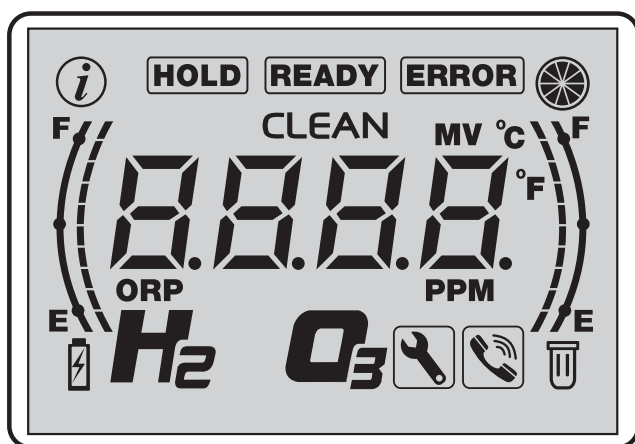
Rear View HOS Unit



Note: The Water Outlet Cap comes with a removable plug that needs to be removed prior to Water Outlet Tube installation. Please see page 17 for further instruction.

Installation

LCD Display & Control Panel



Drinking



Disinfection



HOLD Waiting Indicator

The waiting indicator indicates to wait for certain amount of time before functions can become available. This waiting requirement can be indicated by two modes - light on/blinking under following conditions:

Light On:

* First time start-up - The waiting icon will stay on until system preparation (iEOG water filling process) gets ready (30 to 55 minutes based on input pressure).

Blinking:

* Drinking pre-flush - The waiting icon will remain flashing during the first 5 sec of hydrogen water output.

* Automatic internal cleaning - The waiting icon will remain flashing during the cleaning is in process.

* Re-start - The waiting icon will remain flashing until a compulsory time out period for re-start protection is completed (30 minutes).

READY Ready Indicator

The ready indicator shows the system is ready and output functions are available for use.

ERROR Error Indicator

When the system displays a flashing red error icon, this means there is a detectable error or problem, which has caused the system to stop function normally. Conditions which can attribute to an error could include the following:

*E10, Faulty iEOG generator (iEOG cell)

*Due for service (consumable parts)

*E45, Water Input Failure (iEOG water filling process timeout)

*E75, Power off exceeding number limitations

Installation

CLEAN Internal Cleaning Indicator

CLEAN shows that the system is processing internal cleaning. All functions are suspended and little noise is normal during this cleaning period. This function is available both by automatic and manual. Water is discharged from the output in the manual cleaning operation. (P.22)

°C/°F System Temperature

System's temperature is measured and displayed during normal standby for user's reference. Standard display is in Degrees Celsius; Degrees Fahrenheit is optional.

H₂/O₃ Output Feature Indicator

* Lighting up when specific function is selected. **H₂** blinks during drinking pre-flush.

ORP/MV Oxidation-Reduction Potential Display



ORP stands for Oxidation-Reduction Potential, expressed in "mV" (millivolts), referring to the relative anti-oxidation power of the hydrogen water output.

PPM Parts Per Million Display

PPM stands for Parts Per Million (or mg/L), referring to the relative dissolved ozone concentration of the ozone water output.



Ozone Performance Meter

The performance icon shows the performance charge level, from full  to empty  when using continuously, filling to full in standby. When the meter shows that every segment is filled, the system is ready with peak performance on standby.



Performance at peak



Performance at baseline



Consuming or recharging performance

Installation



Power Disconnection Warning

* Phase 1 - Within allowed power disconnection limits :

Displayed together with accumulated power off times.

* Phase 2- Exceeding allowed power disconnection limits :

Displayed together with ERROR (E75) and accumulated power off times
(Disconnection 36 times or more).



Service Notification



Blink

Service due in 3 weeks.
Check service code(s).



On

Service due,
functions suspended. Check
service code(s).



Call customer service notification

* This icon is displayed when:

- Service due.
- Error detected.

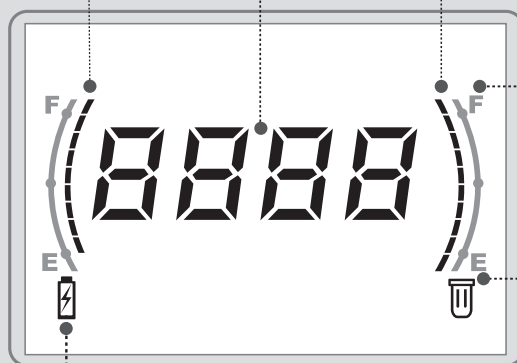
* Metering life-cycle consumption for :

- iEOG module(Left)

- Pre-filter(Right)

* Level Indicator

* Full



Drinking



* Hydrogen Water Button

Disinfection



* Ozone Water Button

* Empty

* Blinking when:

- Showing Power Disconnection Warning
- Exceeding power-off limits (equivalent to E75 code).

Installation

How to Install the Unit

Consult your local dealer for installation arrangements. The information described below in this section is intended for user's reference.

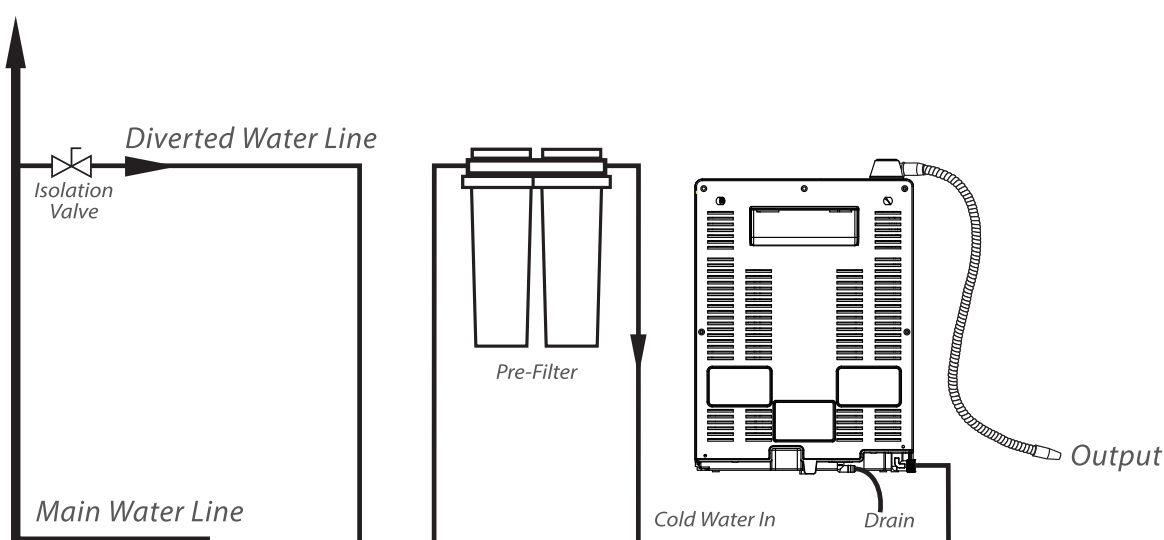
The most common configurations for home kitchens are discussed here. For additional installation options or questions on your specific installation, please contact your regional service provider.

Tool You Will Need



Plumbing and Installation Instructions

A typical scheme for installation of HOS is shown below. Please follow all local plumbing and construction codes in setting up the unit and all required water input, output and drain plumbing in accordance with the scheme.



Typical Scheme of Installation

Typical Installation Steps:

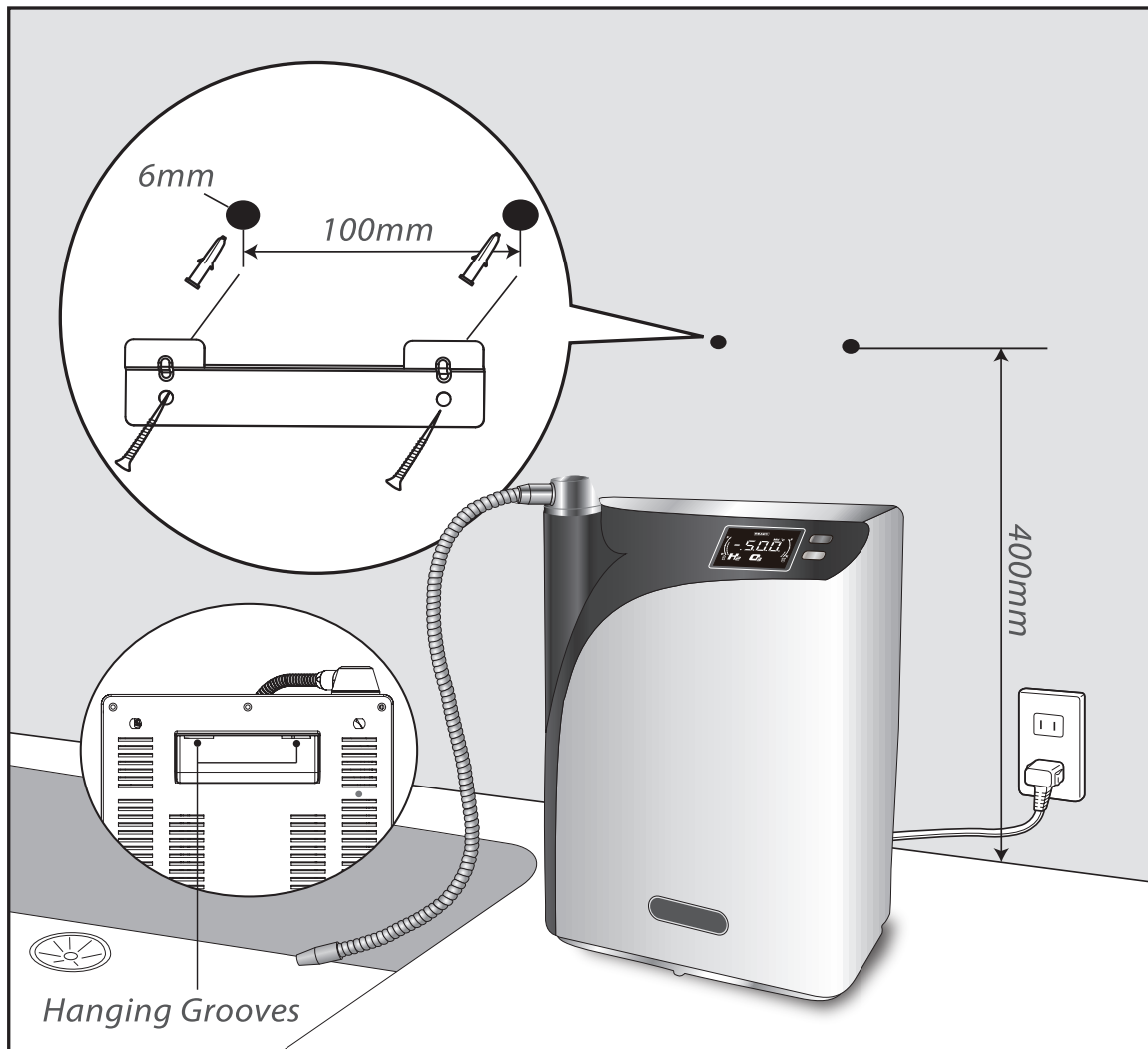
1. Unit location and setup
2. Locate a source for input water
3. Setup input water pre-filter
4. Connect input water and drain hoses
5. Setup and connect the water output

Installation

Instruction 1 – Counter-Top or Under-Counter Installation Overview

For counter-top installation, determine if you will place your unit simply on a stable counter or mount it on a wall near and above a sink. To mount the HOS, please follow the directions below:

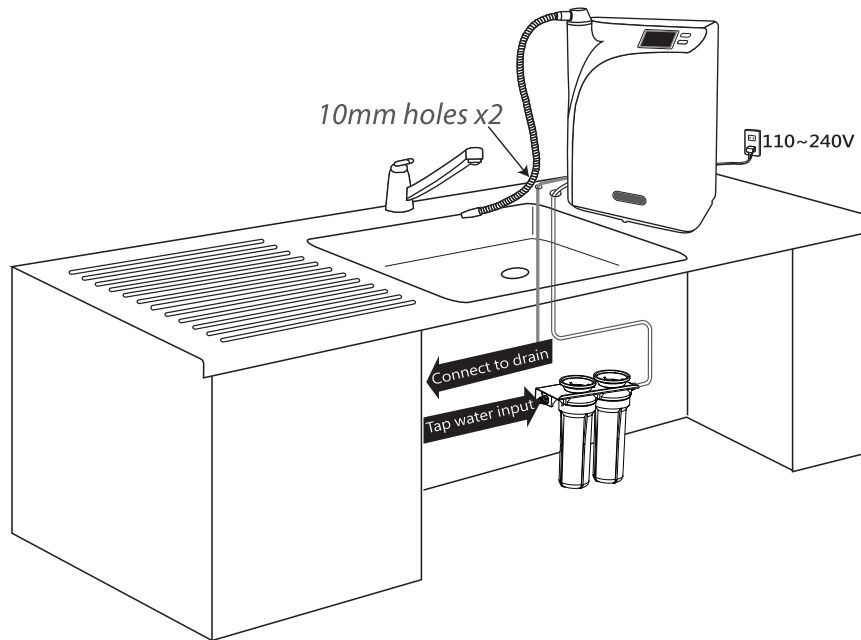
1. Drill two 6 mm holes with 30 mm in depth in the wall 400 mm above the top of the sink or counter. The distance between the 2 holes must be 100 mm:
2. Press the plastic anchor inserts into the holes as pictured below. Push the plastic anchor insert so that the opening is flush with the wall.
3. Place the mounting bracket on the wall and fix with screws as pictured below. Hang the HOS on the mounting bracket.



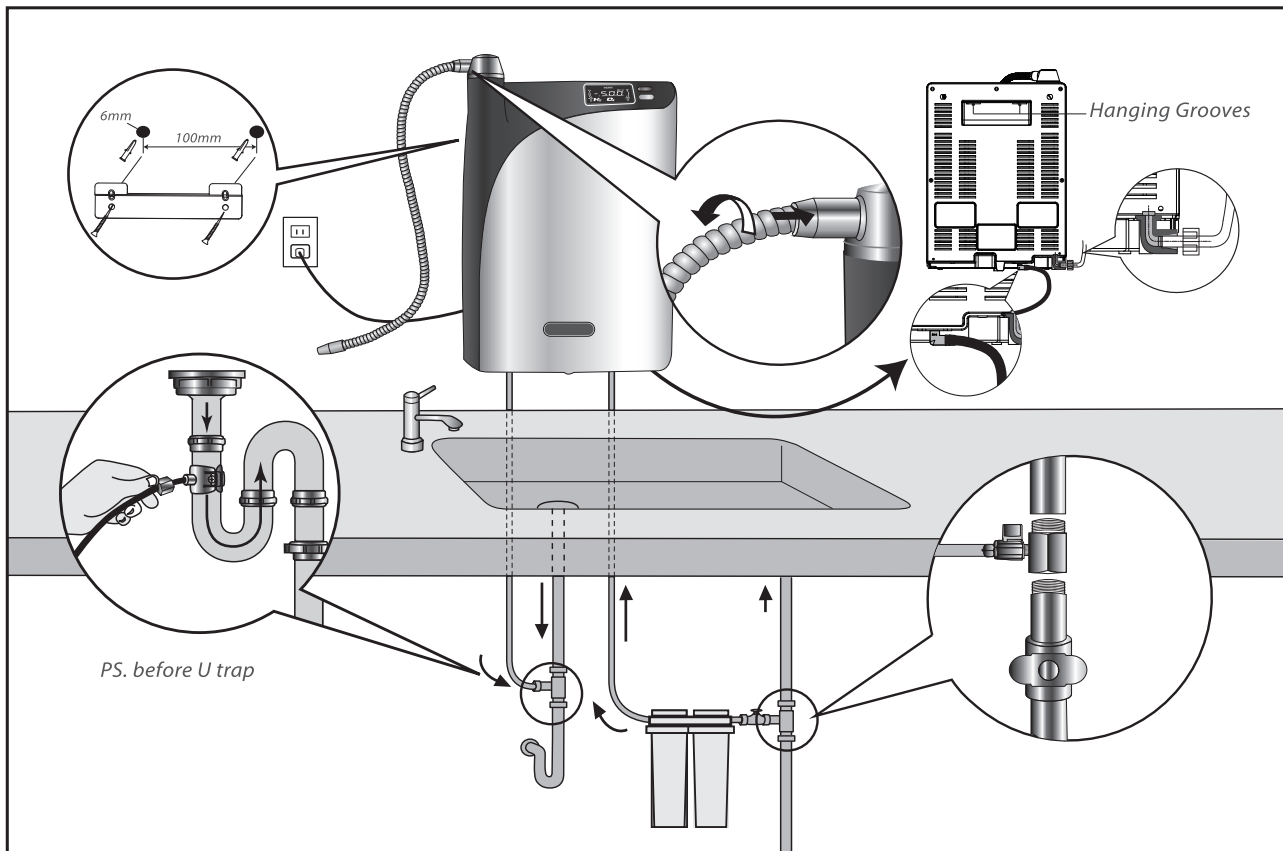
Installation

Important:

For counter-top installation, two 10 mm holes on the counter will be required for passing the input water and drain hoses through the surface. This is in order to allow the connections from the back of the unit to under sink area for input water and drain.



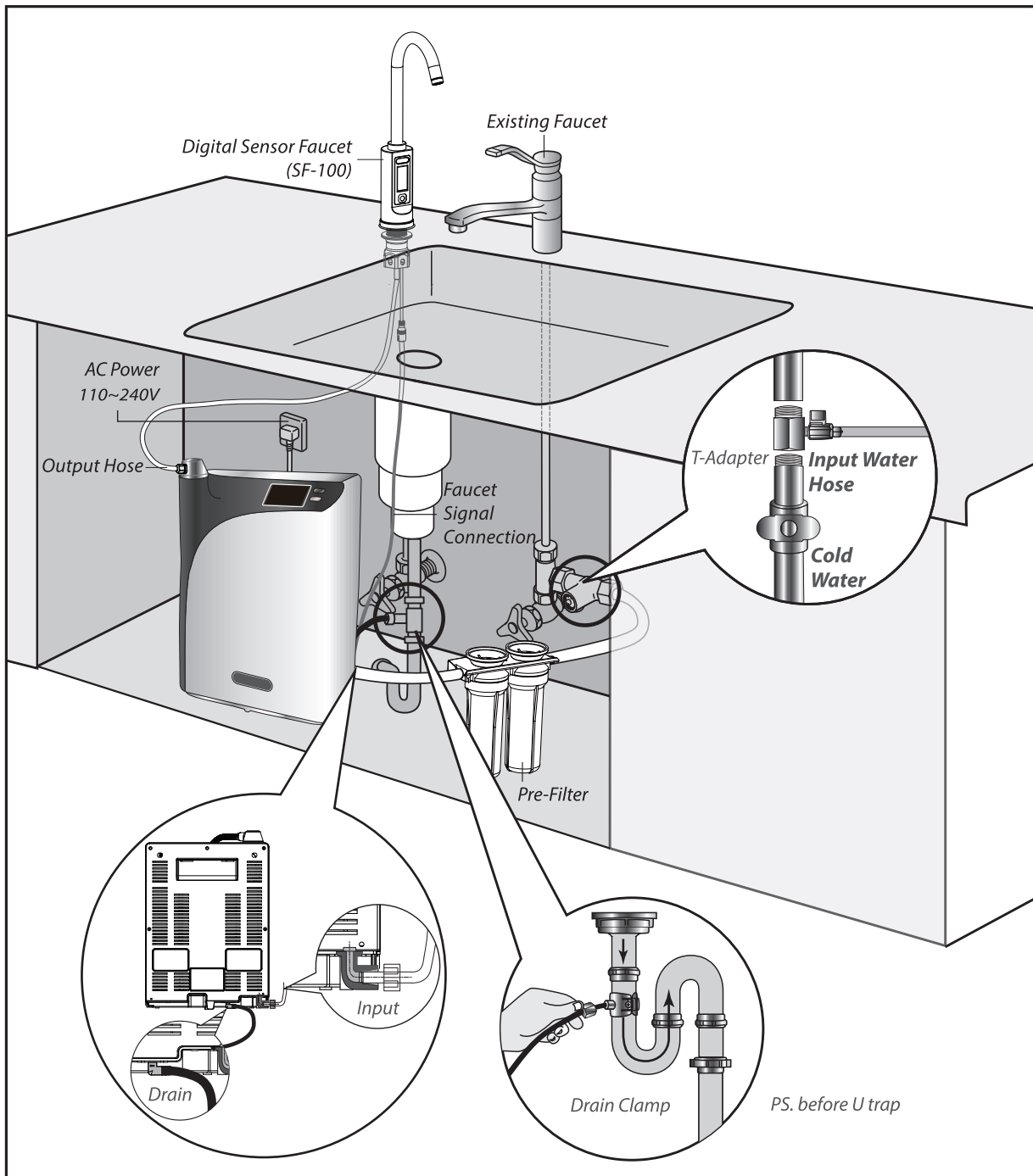
Below drawing shows the installation and relevant plumbing as installed with a counter-top scheme:



Installation

For under-counter installation, a digital sensor faucet designed exclusively for the unit will be required in order to accomplish the control of output from counter-top. The HOS main device will be located under the sink. While the connections of the input water and drain are accessible directly under the sink, the outlet will be connected to the faucet for output.

Below drawing shows the installation and relevant plumbing schemes for under-counter installation:

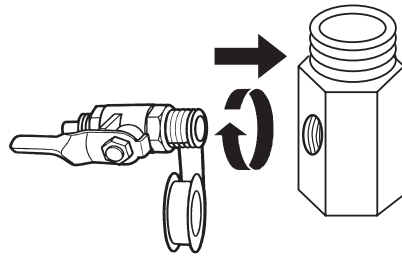


Note: These installation diagrams are for illustration and reference purposes only, indicating the required key components in the installation. Plumbing and setup orientation may vary from place to place.

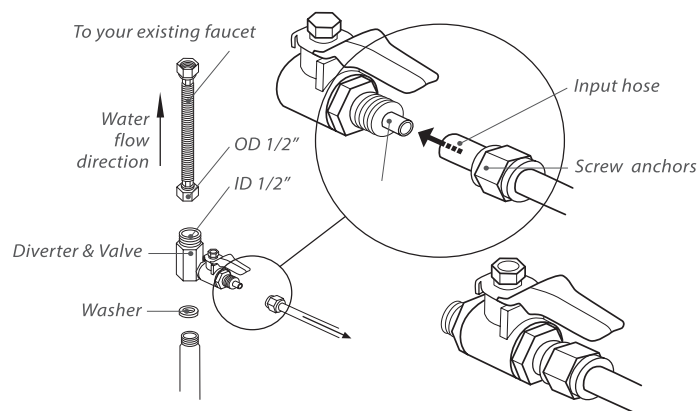
Installation

Instruction 2 – Input Water Setup

1. Find the ½" to ¾" Ball Valve T-Adapter (diverter & valve) in the accessory box. Assemble and seal the threaded connection with the plumber's tape included in the accessory box:



2. Locate the cold water supply under the sink. Shut off water supply.
3. Connect the adapter to the cold water line between the wall and the sink faucet as follows:



4. Connect the unit to the cold water line with input water pre-filter in between.

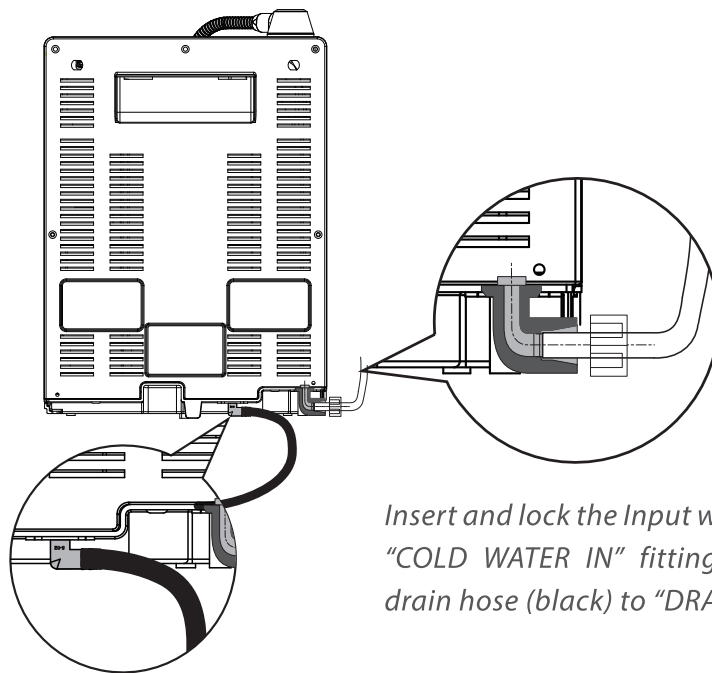
Instruction 3 – Setup Input Water Pre-Filter

Select an easy-to-access location and install your input water pre-filter between cold water supply and the unit (ex. under the sink). It should be noted that after filtration water quality must meet your local standards for drinking water requirements.

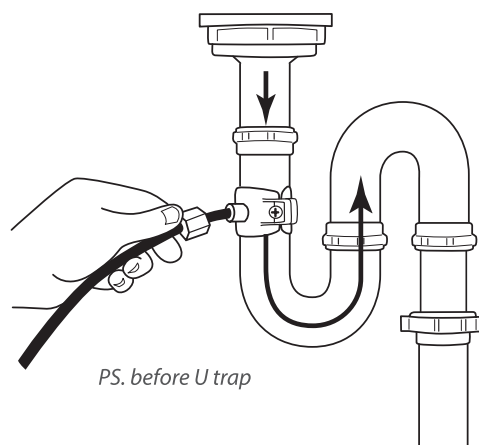
Installation

Instruction 4 – Input & Drain Connection

1. Remove the joint tube from the unit's inlet and outlet fittings on the back of the unit. This joint tube is used for shipping purposes only.
2. Find the input hose (white) and drain hose (black) in the accessory box.
3. Insert the input hose into the unit's fitting (COLD WATER IN). Tightly screw the nut onto the fitting to secure the hose into place. Then, attach the drain hose to the unit's drain fitting (DRAIN).



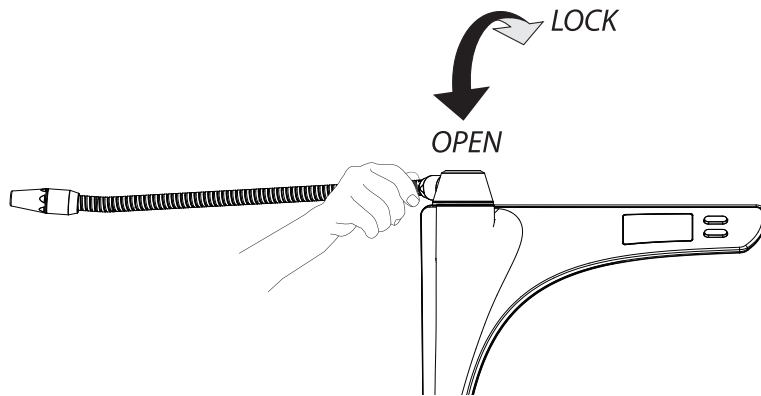
4. For counter-top installation, two 10 mm holes on the counter will be required for passing the input water and drain hoses through the surface.
5. Setup the drain hose under-sink connection:
Drill a 10 mm hole into the sink drainpipe and install the drain hose with the drain clamp (included accessory) in accordance with the below scheme.



Installation

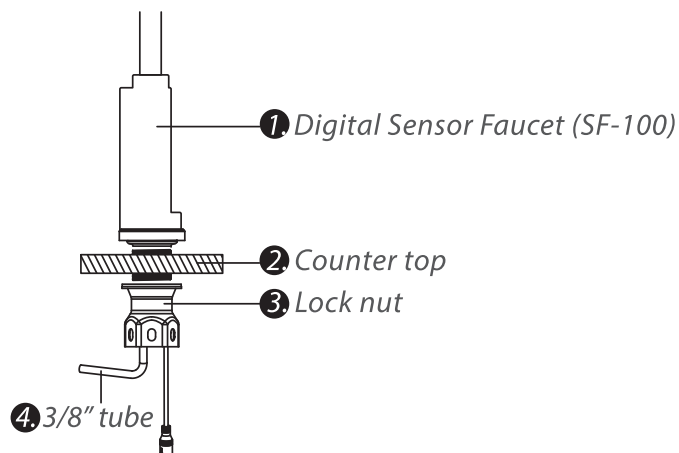
Instruction 5 – Connect Water Output

1. To locate the water outlet, remove the plastic cap positioned at the top of the unit (rotating water output cap).
 - a. For counter-top installation, find the flexible water outlet tube in the accessory box. Screw the tube anticlockwise into the water outlet until there is no gap. Do not over tighten.



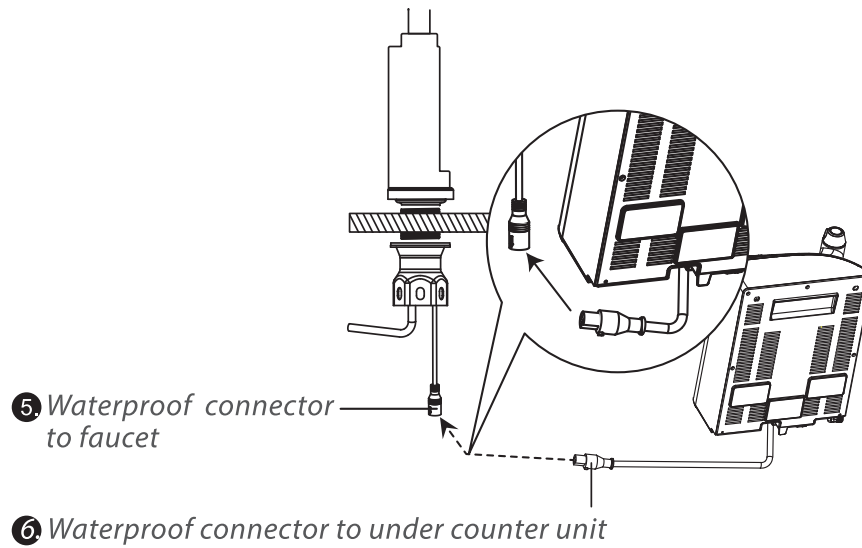
- b. For under-counter installation, install the SF-100 Digital Sensor Faucet and connect it with HOS according to the following instructions:

1. Drill a $\phi 32$ (mm) or 1 1/4" hole in the sink or counter top or use the available hole.
2. Insert the faucet tailpieces with supply and connection line into the hole.
3. From beneath the sink or counter top, screw the lock nut onto the faucet tailpieces and tighten them with a basin wrench.

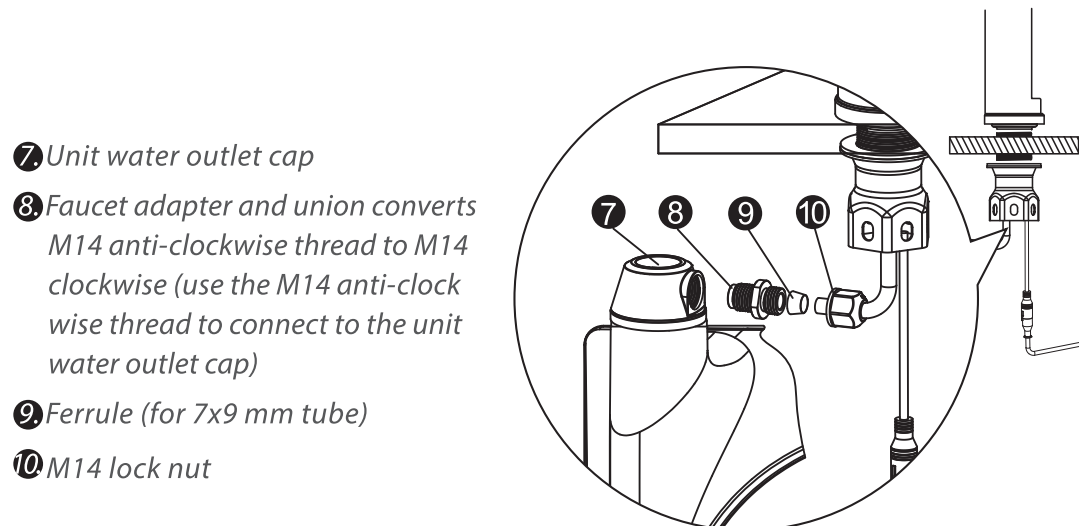


Installation

4. Connect the faucet and under counter unit and wire the waterproof connectors.



5. Connect the faucet and under counter unit and assemble the tubing as shown.



Operation & Use

Unit Start-Up

Connection Check

Confirm all below points prior to start-up:

- 1. All inputs, output and drain are correctly installed to their corresponding connections.*
- 2. Ensure that the unit is connected to cold water supply input.*
- 3. The power supply meets the requirements as indicated in the product specifications.*
- 4. Input water pressure is 2.0~7.0 kg/cm² (29~100psi).*
- 5. The area of operation is well ventilated.*

Initial Start-Up

The unit is switched ON by plugging the cord into wall outlet (power supply). There is no ON/OFF control switch. Before plugging unit into wall outlet, all plumbing works should be completely set up.

*To use the machine at the first time, connect the unit to power to switch on and the system preparing indicator " **HOLD** " will light up on the display panel. At this point, the unit is in preparation stage refilling water for iEOG start-up. This process will take about 30~55 minutes according to water pressure.*

Note: *Draining during this stage is normal.*

*Once this preparation phase is complete, the " **HOLD** " will go out automatically, and " **READY** " will light up, indicating the unit is now ready for use. At this point, the panel displays the detected internal system temperature on the display panel, too.*

Conditionally Shut-Down

- The HOS is intended for constant power-on, unless in necessary situations, such as before machine servicing activities.*

The following sequence of steps must be followed for manual shut-down:

- 1. Shut off water supply.*
- 2. Turn off the system by un-plugging the cord from the wall outlet.*

Note: *Disconnecting the power frequently may cause unexpected impacts on the iEOG module and result in degradation to the product performance. 36 times of power off in a year will void warranty.*

Operation & Use

Re-Start & 30 Minutes Re-Start Protection

The unit can be switched OFF by un-plugging the cord from wall outlet (power supply). Before shutting down the unit, the water supply to the unit should be completely turned off.

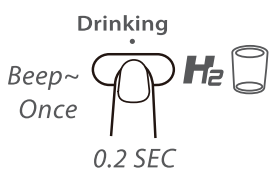
To re-start the unit, connect the unit to power to switch on. In system re-starting, all functions are suspended for 30 minutes along with " **HOLD** " flashing slowly (blink/0.5 sec). During this waiting period, maintenance program is running at background for self-check.

Directions for Product Use

Select a desired water mode: you can choose between Hydrogen Water for Drinking (pressing the upper button) or Ozone Water for Disinfection Use (pressing the lower button) following the below instructions:

To Select Hydrogen Water

1. 5 MIN Hydrogen Water Outflow



Press once on the upper button and again to stop

The specific " **H₂** " icon flickers during water outflow. If the button is not pressed again, the unit will automatically stop after 5 minutes of water outflow.

To Select Ozone Water

1. 20 SEC Ozone Water Outflow



Press once on the lower button and again to stop

The specific " **O₃** " icon flickers during water outflow. If the button is not pressed again, the unit will automatically stop after 20 seconds of water outflow.

2. 5 MIN Ozone Water Outflow



The specific " **O₃** " icon flickers during water outflow. If the button is not pressed again, the unit will automatically stop after 5 minutes of water outflow.

Water outflow stop: Lightly press the button again to stop water flow.

Note: remember, a LIGHT PRESS is all that is required when pressing the two functional buttons.

Press & hold for 2 sec on the lower button and again to stop

Operation & Use

Pre-Filtration Monitoring Program Setting

By default, HOS is available with "Pre-Filtration Service Indicator" - the "Life Meter" on the right side that can assist user to monitor the replacement cycle of the filter(s) (or the cartridge(s)). There are total of ten monitoring programs based on treatment capacity for options, from "PF00" to "PF09". If monitoring is not required, select "PF00" to deactivate the function. Otherwise, select your option based on the capacity provided by the manufacturer of the product:

- PF00 : ∞ L (∞ gal)
- PF01 : 5,000 L (1,320.9 gal)
- PF02 : 10,000 L (2,641.8 gal)
- PF03 : 15,000 L (3,962.7 gal)
- PF04 : 20,000 L (5,283.6 gal)
- PF05 : 25,000 L (6,604.5 gal)
- PF06 : 30,000 L (7,925.4 gal)
- PF07 : 35,000 L (9,246.3 gal)
- PF08 : 40,000 L (10,567.2 gal)
- PF09 : 45,000 L (11,888.1 gal)

Follow below directions to setup your own "Pre-Filtration Service Indicator":

Step 1 Press and hold the "Upper Button" for 20 seconds to enter the setting and one beep sounds.

Step 2 Use the "Upper Button" to select program from PF00 to PF09 according to the filter's capacity.

Step 3 Press the "Lower Button" to save the setting and one beep sounds.



The monitored remaining lifecycle for the pre-filter is displayed on the right side "Life Meter" on the display. Each segment represents 10% of the monitored remaining lifecycle.

Pre-Filtration Service Indicator

After replacing the filter (or cartridges), user can follow the below directions to reset the indicator:

1. Press and hold the "Upper Button" for 10 seconds to enter the reset mode. One beep sounds and the system displays "0000".
2. Use "Upper Button" to select between 0~9 and "Lower Button" to switch position to input "0 1 0 1". This code is to reset the remaining life displayed for the filter.

21 3. Press the "Lower Button" twice to save the setting and complete the reset.

Operation & Use

Other Functions

Drinking pre-flush

Drinking pre-flush lasts 5 seconds and is performed during hydrogen water outflow after more than 20 minutes of non-operation, or each time if ozonated water outflow has been used previously within the 20 minutes. " **HOLD** ", and " **H₂** " will blink slowly on the display panel of the unit, indicating this flushing mode. After 5 seconds, the selected " **H₂** " water mode will be dispensed.

If an "internal cleaning" (described below) was performed within previous 20 min, the period of "Drinking Pre-flush" will be extended, up to 25 sec.

Internal pipeline cleaning and disinfection

Internal pipeline cleaning and disinfection will be performed automatically. Icon " **CLEAN** " will light on as an indication. Internal tubes will be washed and sanitized by ozonated water and the water will be discharged through the drain. All functions are suspended during this cleaning and disinfection process !

Press the lower button for 3 seconds can run this function in manual mode. Icon " **CLEAN** " will light on to indicate the operation and water will be discharged from the output. All functions are suspended during the process!

Temperature Displays

The HOS Series measures system's internal temperature and displays it on the display panel for user's reference. This display under all states as a primary display comes as default in any new unit.

Press and hold the upper button for 10 seconds (beep twice) during system standby, then Press and hold the lower button for 5 seconds (beep twice) to switch the readings between degree Celsius (°C) and Fahrenheit (°F).

Parts life Cycle Displays

The HOS records Remaining **Life Cycle of each** consumable part for operator's reference. The information is displayed on the display panel. **Press and hold the lower button for 5 seconds during system standby, then press the upper button** to switch the display for each of the consumable parts equipped in the units for regular check purpose.

The first two digits are the item indicated by coding, and the last two indicate the **Remaining Life Cycle** of the part in percentage (%). The codes are interpreted as follows:

Operation & Use

Part Coding	Coding Interpretation
	<p>Wording translation: OG99</p> <p>Indicated part: iEOG Cell</p> <p>Interpretation: Remaining life 99% for iEOG Cell</p>
	<p>Wording translation: ro99</p> <p>Indicated part: Reverse Osmosis (RO) Module</p> <p>Interpretation: Remaining life 99% for RO Module</p>
	<p>Wording translation: dI99</p> <p>Indicated part: Deionizer (DI) Module</p> <p>Interpretation: Remaining life 99% for DI Module</p>
	<p>Wording translation: du99</p> <p>Indicated part: Off-Gas Destructor</p> <p>Interpretation: Remaining life 99% for Off-Gas Destructor</p>
	<p>Wording translation: Fn99</p> <p>Indicated part: System Cooling Fan</p> <p>Interpretation: Remaining life 99% for Fan(s)</p>
	<p>Wording translation: IP99</p> <p>Indicated part: Input hose (IP)</p> <p>Interpretation: Remaining life 99% for Input Hose</p>
	<p>Wording translation: PF99</p> <p>Indicated part: Pre-filter</p> <p>Interpretation: Remaining life 99% for Pre-filter</p>

Service Notification Displays

The HOS can display various **Service Codes** as notifications to users when standard service is required. The information is displayed on the display panel. Please contact your regional Dealer for service arrangements when the code(s) are present.

For Remaining Lifecycle of any consumable part that is recorded, the unit will provide service notification once the service or replacement is required. The Service Notification will be displayed in two different modes according to the degree of urgency: “**2% Remaining Notification**” and “**Life Ending Notification**”:

Operation & Use

• 2% Remaining Notification

In this mode, "🔧" is flashing in slow mode, 2 beeps are sounded when pressing any key.


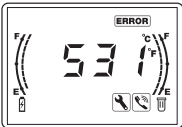
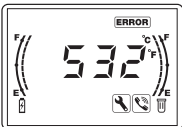
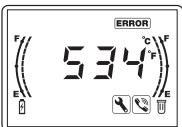
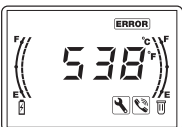
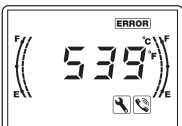
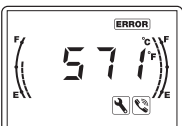
At this time, the user should contact the local dealer to schedule a service and part replacement **within 3-week time**.

• Life Ending Notification

In this mode, 10 second buzz will be sounded when the state occurs, "🔧" lights up, 5 beeps are sounded when pressing any key. All functions are suspended.

At this time, the user should contact the local dealer to schedule a service and part replacement **IMMEDIATELY**.

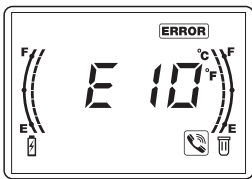
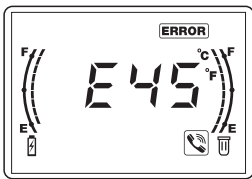
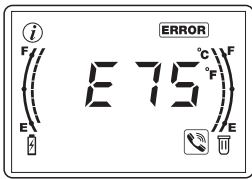
The coding for each service requirement and the interpretation is listed as follows:

Service Code	Service Requirement Interpretation
	Wording translation: S11 Coding Interpretation: Replace Pre-filter
	Wording translation: S31 Coding Interpretation: Replace Reverse Osmosis(RO)module
	Wording translation: S32 Coding Interpretation: Replace Deionizer(DI) module
	Wording translation: S34 Coding Interpretation: Replace Off-Gas Destructor
	Wording translation: S38 Coding Interpretation: Replace all Fans
	Wording translation: S39 Coding Interpretation: Replace Input hose
	Wording translation: S71 Coding Interpretation: Replace iEOG Cell

Operation & Use

Error Notifications Displays

For following detectable errors, once detected, the codes will be displayed on the display panel:

Error Code	Error Interpretation
	<p>Wording translation: E10</p> <p>Error Interpretation: iEOG Cell fails.</p> <p>All functions are suspended.</p>
	<p>Wording translation: E45</p> <p>Error Interpretation: preparation (timeout) iEOG water refilling fails during. All functions are suspended.</p>
	<p>Wording translation: E75</p> <p>Error Interpretation: Power supply failure or power disconnection exceeds 36 times a year recorded.</p>

Power Disconnection Warnings




To maintain the system's best performance, power must be connected at all times. Unless in necessary situations, such as due to servicing activities or supply outage that may occur occasionally and/or unexpectedly, attempt and care should be made in order to avoid any man-made incidence of power off. Disconnecting the power frequently and too many times may cause unexpected impacts on the iEOG module and will result in degradation to the product performance.

Note: To keep the warranty valid, power disconnection should not reach to 36 times in an operating year (3 times per month).

Associated with the accumulated number of times of power off, system notification will be provided with two phases. Phase 1 is to be provided as a reminder to the recorded number at the time, whereas phase 2 notifies the limitation reached and invalid warranty on the iEOG cell, i.e., 36 times of power off recorded in an operating year.

Operation & Use

Phase 1: Reminder notification to accumulated power off times

An incident reminder will be displayed once a "monthly notifying point" is reached. At this stage, accumulated number of power off incident at the time will be displayed on the panel, icon "  " and "  " will blink slowly, and Icon "  " will light on. This reminder is provided with intention to bring up attention to users with respect to the fact that the accumulated number of power off incident has exceeded the acceptable number based proper maintenance.

This status comes is present during the waiting period of 30 min re-start protection and can be removed and returned to normal standby status by pressing any key after the completion of the waiting time . At this point, users should read the displayed number on the panel, and call the dealer to discuss and understand the circumstance if necessary. Most importantly, following effort should be made in order to try to avoid any further incident of man-made power off.

Determination of monthly notifying point:




The monthly notifying point will be determined by system to the recorded number of actual power off according to the following statistical principle:


Monthly notifying point = $3 \times N$ (times) [N.B.: N stands for operating month(s), $N \geq 1$]

For example, the incident is notified once the 3rd time of power off occurs within the first operating month in total, or the 6th time within the second operating month, and so on for the following months.

Considering proper maintenance, the acceptable number of power off incident averaged in each operating month is 3 times.

Phase 2: Warning to power off limit

For 36 times (or more) power off in an operating year recorded by the unit, a "E 75" as notification will be displayed on the panel, together with the accumulated number of incident at the time displayed one after the other. Similar to phase 1, icon "  " and "  " will blink slowly, and icon "  " will light on. **All these displays is present during the waiting period of 30 min re-start protection and can be removed and returned to normal standby status by pressing any key after the completion of the waiting time.**

After removing the notification display, despite the icon "  " will remain blinking slowly, all functions will still be available for use after the status removed. However, impacts on the iEOG module may have been resulted and degradation to the performance may have occurred. At this point, the warranty has become partially invalid. This is for your reference that you should call your dealer to discuss your usage and discuss service if necessary.

Operation & Use

Recommendations for Using this Unit

Benefits of Hydrogen Water

1) *Drinking Hydrogen Water helps the selective scavenging of harmful ROS such as hydroxyl and peroxynitrites and preserving the ROS required.*



2) *Hydrogen is the newest antioxidant that is capable of increasing the cells and organs' antioxidant, anti-inflammatory and anti-apoptotic abilities. Meanwhile it protects DNA and ensures cell survival by its effect against the possible cellular damages and/or deaths induced by hydroxyl radicals.*

3) *Hydrogen molecules as a powerful antioxidant can quickly penetrate the biofilm and then diffuse into the cell membrane. It is therefore capable of resisting oxidative damage and promoting cell activation, enabling anti-aging, aging prevention, and health improvement.*



4) *Drinking Hydrogen Water, through a reducing effect, neutralize the increasing excess free radicals formed as a result of body acidification, effectively suppresses the symptoms and improve physical fitness after acidification and restores health.*

Hydrogen is a new antioxidant and is found to be better than currently known anti-oxidants with following features:

1. *Hydrogen molecules are small and can quickly penetrate the biofilm and then diffuse into tissues, cytoplasm, mitochondria and nuclei.*
2. *The effective dose of hydrogen molecules is not toxic. There is no concern about the safety problem of excessive use of hydrogen.*
3. *Hydrogen is a moderate antioxidant, which does not interfere with the oxidation-reduction reaction of metabolism.*
4. *Comparing to other antioxidants, hydrogen molecules has better compatibility with tissues and organs. This is the reason that deep-sea divers tend to use hydrogen to replace oxygen to avoid lung damage. In addition, no matter by orally or injection, hydrogen molecules can easily move to the lungs for easy metabolism. This is extremely safe.*

Operation & Use

Benefits of Ozone Water

- 1. Pure ozone and oxygen obtained from pure water electrolysis are used to prepare ozonated water at high concentrations with the process of gas storage, nebulization and efficient pressurization and saturated dissolution. It is safe and reliable in effectively killing bacteria and disinfection.*
- 2. The ozonated water prepared with the pure ozone from pure water electrolysis by electrolytic hydrogen and ozone generator is free from hazardous, or even carcinogenic, toxins such as nitrogen oxides (NOx), nitrates (NO₃) and nitrites (NO₂).*
- 3. Gained approval from U.S. Food and Drug Administration (FDA): pure ozone and ozonated water can be used as bactericidal agents for foods as well as surface disinfectants.*
- 4. Certified by U.S. National Sanitation Foundation (NSF) and Japan PSE, Gained approval from U.K. Campeden BRI: the application can be used as bactericidal agents for terminal disinfectants.*
- 5. The design conforms with the requirements of UL (U.S.), CE (Europe), PSE (Japan) and SAA (Australia) certifications.*

Ozone is the most powerful bactericidal agent in the nature. It becomes oxygen after it's reaction with the following features:

- 1. Ozone water achieves rapid and effective disinfection and bacteria elimination. Certified by U.S. NSF, U.K. Campeden BRI and SGS: 5 log kill in 10~20 seconds when used against E. coli, Salmonella spp., S. aureus, P. aeruginosa and C. albicans. (ie. 99.999%)*
- 2. Rinsing vegetables and fruits directly with ozonated water rapidly and effectively degrades pesticide residues as tested by SGS: it removes pesticide residue in 1~2 minutes and makes the "shelf life" longer.*
- 3. Rinsing fish, shrimp, meat and poultry directly with ozonated water is associated with rapid and effective disinfection, bacteria elimination as well as pollutant removal.*
- 4. Ozone water rapidly and effectively eliminates any "fishy smell" and odors when used for direct rinsing.*
- 5. Ozone water has wide disinfecting and bactericidal applications in daily life: hand-washing, tableware, household utensils, knives and forks, bowls and chopsticks, cutting board, cleaning rag, towels as well as baby's pacifiers, feeding bottles and diapers.*

Service & Maintenance

Consumable Parts Life Cycle

Name of Parts	Servicing Cycle
Pre-filter	Depend on filter's capacity or at least 1 year recommended
Reverse Osmosis (RO) Assembly	3 year
Deionization (DI) Assembly	
iEOG Cell	
Off-Gas Destructor	
System Cooling Fan	
Input Hose	

Service & Maintenance

Troubleshooting Guide

Please check out the following troubleshooting suggestions before calling for repair.

Symptom	Possible Cause	Resolution
Display panel does not light up.	Is the power cord plugged in correctly to an active outlet?	Plug the power cord in properly.
	Electronic failure	Unplug the unit and contact your dealer to arrange service.
Water does not flow out or the unit has stopped functioning.	Is the source water valve line closed?	Turn the water supply valve on.
	Is the source water line connected?	Be sure the water supply hose is connected properly.
	Is the hose bent?	Be sure the water line is not bent.
	Is the water pressure too low?	Replace the pre-filter Contact your dealer to arrange service.
Water is leaking from the hose at the attachment.	Check to see if the hose is disconnected.	Connect the hose to the attachment.
Water is leaking from inside the unit.	Unknown.	Unplug the unit and contact your dealer to arrange service.
The water has a strange odor or tastes bad.	Has the unit been unused for a long time?	Let ozonated water flow through the unit for 5 minutes or more. If the water does not improve, contact your dealer to arrange service.
There is a strange noise coming from the unit.	Unknown.	Unplug the unit and contact your dealer to arrange service.
Display Code: E10 All functions suspended.	Faulty iEOG module.	Contact your dealer to arrange service.
Display Code: E45 All functions suspended.	iEOG water refilling timeout by low water pressure.	Correct input water pressure and then re-start the unit.
	iEOG water refilling timeout by iEOG Pre-filter jammed.	Clean or replace as needed and then re-start the unit.
	Unknown.	Contact your dealer to arrange service.
Display Code: E75 Warranty void for iEOG cell	Power interruptions or re-start exceeds 36- times a year.	Press any key to return to normal stand-by, but contact your dealer for further information and performance check.
Display Code: S11 2 beeps when pressing any key	2% life remaining notification for iEOG pre-filter.	Replace the notified part. Contact your dealer to arrange service ASAP
Display Code: S11 All functions suspended. 10 sec alarming, followed by 5 beeps when pressing any key.	Service due and life ending notification for iEOG pre-filter.	Replace the notified part. Contact your dealer to arrange service IMMEDIATELY.

Service & Maintenance

Symptom	Possible Cause	Resolution
Display Code: S31 2 beeps when pressing any key.	2% life remaining notification for Reverse Osmosis module	Replace the notified part. Contact your dealer to arrange service ASAP.
Display Code: S31 All functions suspended. 10 sec alarming, followed by 5 beeps when pressing any key.	Service due and life ending notification for Reverse Osmosis module	Replace the notified part. Contact your dealer to arrange service IMMEDIATELY.
Display Code: S32 2 beeps when pressing any key.	2% life remaining notification for Deionization module	Replace the notified part. Contact your dealer to arrange service ASAP.
Display Code: S32 All functions suspended. 10 sec alarming, followed by 5 beeps when pressing any key.	Service due and life ending notification for Deionization module	Replace the notified part. Contact your dealer to arrange service IMMEDIATELY.
Display Code: S34 2 beeps when pressing any key.	2% life remaining notification for Off-gas Destructor	Replace the notified part. Contact your dealer to arrange service ASAP.
Display Code: S34 All functions suspended. 10 sec alarming, followed by 5 beeps when pressing any key.	Service due and life ending notification for Off-gas Destructor	Replace the notified part. Contact your dealer to arrange service IMMEDIATELY.
Display Code: S38 2 beeps when pressing any key.	2% life remaining notification for System Cooling Fan.	Replace the notified part. Contact your dealer to arrange service ASAP.
Display Code: S38 All functions suspended. 10 sec alarming, followed by 5 beeps when pressing any key.	Service due and life ending notification for System Cooling Fan.	Replace the notified part. Contact your dealer to arrange service IMMEDIATELY.
Display Code: S39 2 beeps when pressing any key.	2% life remaining notification for Source Water Hose.	Replace the notified part. Contact your dealer to arrange service ASAP.
Display Code: S39 All functions suspended. 10 sec alarming, followed by 5 beeps when pressing any key.	Service due and life ending notification for Source Water Hose.	Replace the notified part. Contact your dealer to arrange service IMMEDIATELY.
Display Code: S71 2 beeps when pressing any key.	2% life remaining notification for iEOG Cell.	Replace the notified part. Contact your dealer to arrange service ASAP.
Display Code: S71 All functions suspended. 10 sec alarming, followed by 5 beeps when pressing any key.	notification for iEOG Cell.	Contact your dealer to arrange service IMMEDIATELY.

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