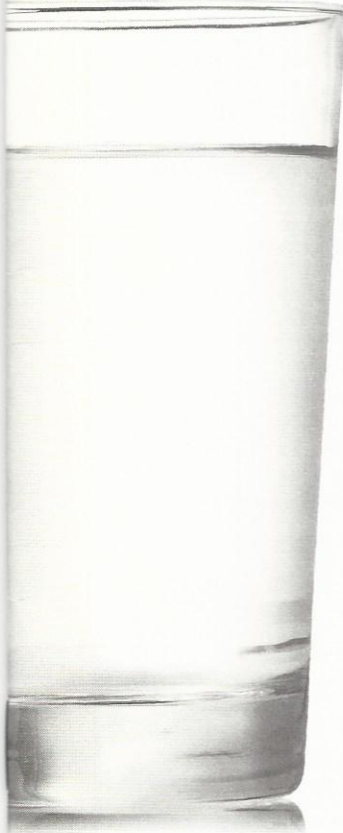


ALKALINE IONIC WATER SYSTEM SM-V112TL



Enjoy drinking alkaline
water that is:

- ⊕ Alkaline
- ⊕ Oxygen rich
- ⊕ Micro-clustered to improve hydration
- ⊕ Antioxidant

Use acidic water that is:

- ⊕ A fantastic astringent for skin care
- ⊕ A good antiseptic
- ⊕ Great for cleansing

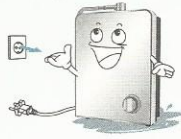
Warning: Incorrect installation and/or operation could void your valuable warranty.
Please protect your investment! READ THIS
MANUAL CAREFULLY



Safety Precautions

If the product is immersed in water by accident, remove the plug from the socket and remove the product from water.
Contact the Service Center.

- ▶ It may cause electric shock.



Do not use power outside the power rating of the socket or device.
In any case power other than 110/220V MUST NOT be used.

- ▶ Do not use the product with other electric devices at the same time as it may cause fire.



Do not pull on the power cord.
Do not touch the plug with wet hand.

- ▶ It may cause electric shock.
- ▶ Excessive dust on the plug may cause moistening leading to poor insulation or fire. Remove the plug from the socket and wipe off with dry cloth.



Push in the plug all the way to the socket.

- ▶ Loose connection may cause electric shock or heat generation leading to fire.
- ▶ Do not use a defective plug or loose socket.
- ▶ Do not bend the power cord by force.
- ▶ Do not damage or deform the cord by placing a heavy object over it. (It may cause fire or electric shock.)
- ▶ Wipe off dust or water from the plug pins and the connection parts. (It may cause fire or electric shock.)

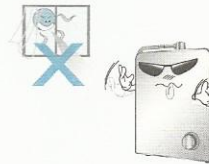
Do not install the product in an area exposed to freezing or direct fire.

- ▶ Ambient temperature : 10~40oC,
Water temperature: 5~30oC
- ▶ This product should not be installed in a location where it may be subject to freezing temperatures.



Install away from excessive humidity or dust, water splashes or direct sunlight.

- ▶ It may cause fire or electric shock.



Connect the product to the cold water pipe.

- ▶ Connection to the hot water pipe may damage the filter or electrolyzer.

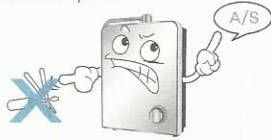


Do not install the acidic water hose higher than the product;
Keep the length below 1.5m, and do not immerse the hose in water.

- ▶ It may cause insufficient water flow or poor water discharge.

Do not disassemble, repair or alter the product.

- ▶ It may cause fire or electric shock. Please contact the retailer or the Service Center for repair.



Do not splash water to the product. Do not wash the product with water.

- ▶ It may cause short, electric shock or breakdown.



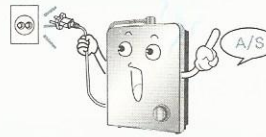
Do not block the Water Output. Do not bend, twist or press the hose.

- ▶ It may cause water leak, incorrect pH level in water or product malfunction.



Remove the plug from the socket immediately if there is abnormal noise or smell from the product, and contact the Service Center.

- ▶ It may cause fire or electric shock.



Do not use water other than drinking water.



Do not place the pH measuring solution near fire.

- ▶ It may ignite leading to fire.



Before using the product that had not been in use for a long period of time, let water flow for 2-3 minutes to ensure proper operation of the product.

Do not use aluminum containers that are vulnerable to alkaline, or copper containers that are vulnerable to acid.

- ▶ Metal containers may cause corrosion or weaken the activation condition.



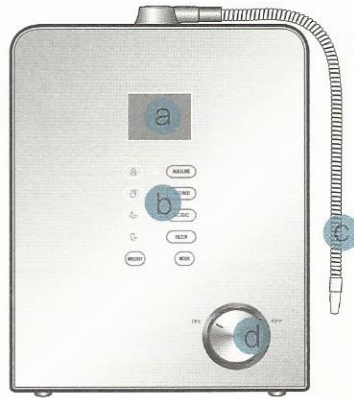
The pH measuring solution must not be swallowed, put in eyes or applied to the human body.

- ▶ If swallowed by accident, drink plenty of water to induce vomiting. If got in the eyes, wash off with plenty of water. Contact the physician immediately.
- ▶ If splashed onto the human body, wash off with plenty of water. Keep the solution capped and away from the reach of children.



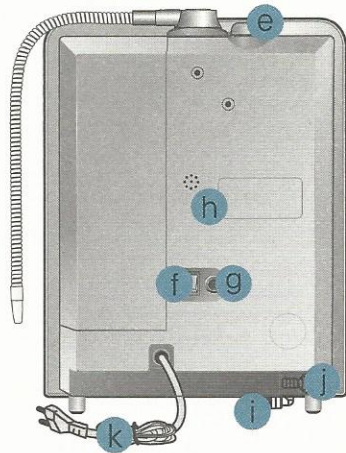
Name and action of each part

■ Front side



- a** Display
Display which indicates operational status when device is activated.
- b** Function selecting button
Button which is used when each function is selected.
- c** Alkaline water discharging nozzle
Passage through which alkaline water comes
- d** Water supplying valve
which supplies/blocks raw water to main body

■ Back side



- e** Calcium Cap
To add calcium
- f** Power Switch
To supply or block power to the product
- g** Fuse Holder
A safety device against over-load
- h** Volume Control Switch
To adjust voice volume
- i** Water Input
The passage of water entering to the product
- j** Acidic Water Output
The passage of acidic water discharged from the product
- k** A/C Power Cord
A cord for power connection

■ Accessories



pH test kit



Spare adaptor



Inlet White Hose



Outlet Gray Hose

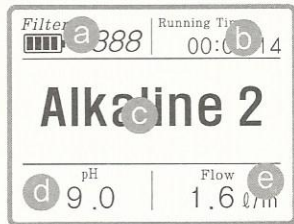


Color chart



Manual

■ Displaying part and operating part



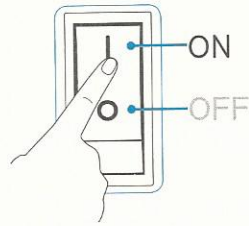
- a Displaying filter lifespan
Indicating total amount of filter use
- b Displaying water discharging time
Indicating time during which water is discharged
- c Displaying number of grade in use
Indicating number of grade in alkali/acid and purification currently in use
- d Displaying pH
Indicating pH for each grade
- e Displaying quantity of supplied water
Indicating total water flow per minute



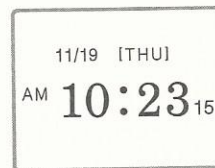
- f Setting display
Method to use lamp which is on when each function is selected
- g Alkali selection button
Button which is used when function of alkaline water is selected
- h Water purification button
Button which is used when function of water purification is selected
- i Acid selection button
Button which is used when function of acidic water is selected
- j Filter Identify button
Button which is used to check filter status
- k Melody button (muting melody sound)
Function that can make melody sound on/off which is made when each function is selected
- l Setting button
Button which sets each function

Initial operation

- 01** Turn on power switch on back side after plugging power cord into socket.

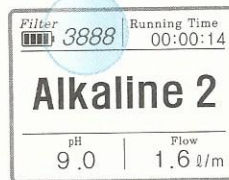
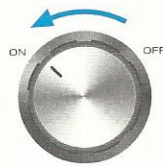


- ▶ Signal sounds, initial screen appears and disappear again, which makes it stand-by status.



Stand-by mode status

- 02** When supplying water by turning on water supplying valve, voice announcement can be heard according to previous mode, and counting lifespan of filter starts



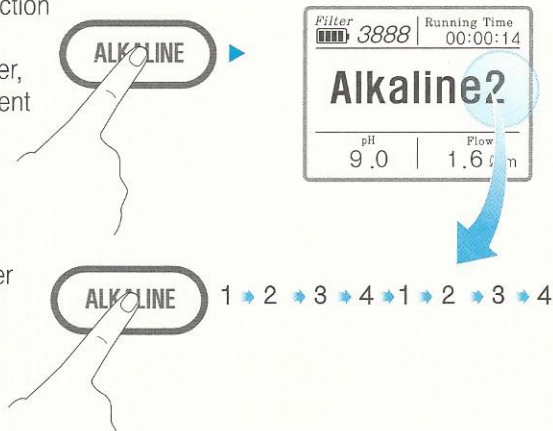
When drinking alkaline water

※4th grade of alkaline water is recommended for special use.

- 01** Supply raw water inside by turning on water supplying valve under stand-by mode.



- 02** When pressing alkaline water selection button, graphic lamp is on which indicates character of alkaline water, number of grade, and announcement can be heard which informs alkaline water grade.



- ▶ Whenever you press alkaline water selection button repeatedly, it changes number of grade.

How to stop

If turning water supplying valve to OFF position, water supply is stopped and it is converted to stand-by status automatically.



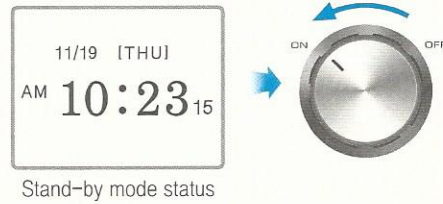
Reference

If alkaline water function is set previously, alkaline water used in previous step is discharged without additional operation when you turn water supplying valve to ON position.

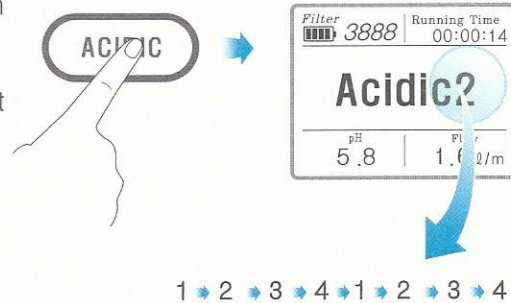
When using acidic water

※ This function is necessary when getting a lot of acidic water and using it for washing face or body.

- 01** Supply raw water inside by turning water supplying valve to ON position under Stand-By mode.



- 02** When pressing acidic water selection button, graphic lamp is on which indicates character of acidic water, number of grade, and announcement can be heard which informs acidic water grade.



- ▶ Whenever you press acidic water selection button repeatedly, it changes number of grade.

How to stop

If turning water supplying valve to OFF position, water supply is stopped and it is converted to Stand-by status automatically.



※ Acidic water is not drinking water. Be careful not to drink acidic water, confusing it with alkaline water.



Reference

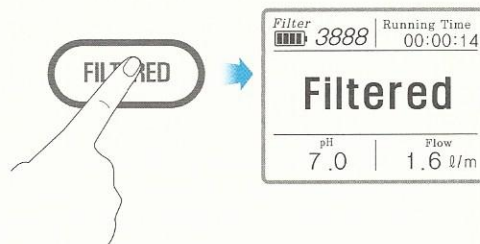
If alkaline water function is set previously, alkaline water used in previous step is discharged without additional operation when you turn water supplying valve to ON position.

When drinking purified water

- 01** Supply raw water inside by turning water supplying valve to ON position under stand-by mode.



- 02** If pressing purified water selection button, graphic lamp of purified water character is on, and announcement can be heard saying that "this is purified water" and purified water is discharged.



How to stop

If turning water supplying valve to OFF position, water supply is stopped and it is converted to Stand-by status automatically.

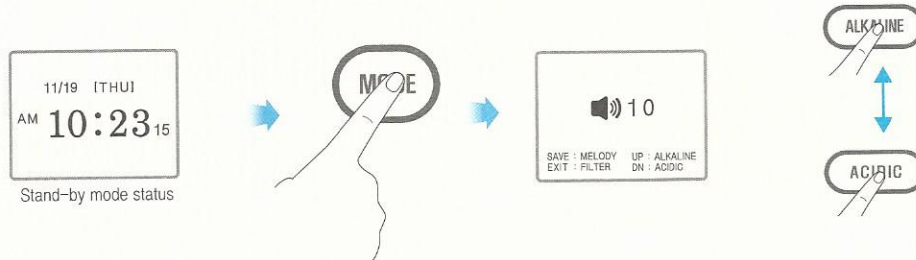


Reference

※When turning on water supplying valve under stand-by release status, purified water is discharged. (However, voice is not heard and graphic does not flicker.)

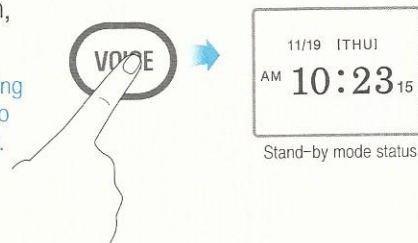
Volume adjusting function for voice information

- 01** Press melody button for 3 to 5 seconds under stand-by mode.
Adjust volume by alkali and acid button. Volume consists of 0 to 10 steps.



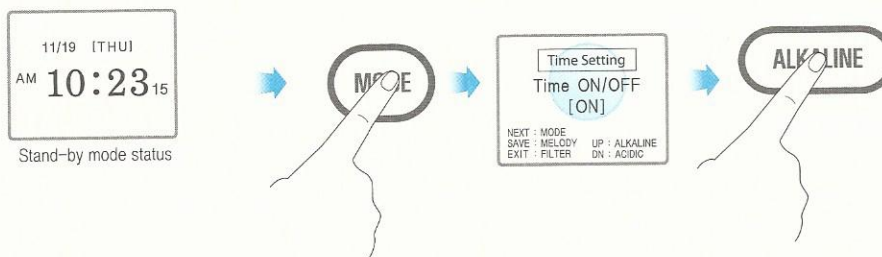
- 02** If saving volume by pressing melody button, it is converted to stand-by screen.

※If there is no additional operation after completing volume adjustment, it is saved and converted to stand-by status automatically after 10 seconds.



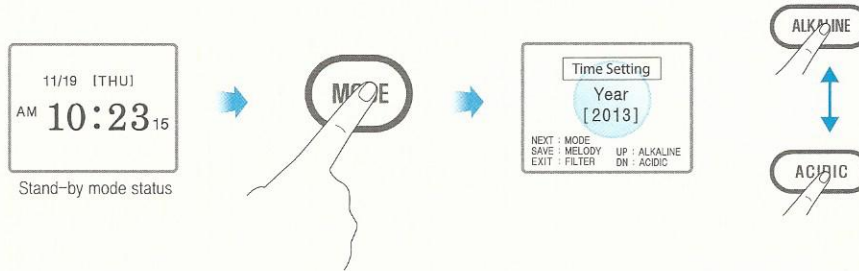
Stand-by screen adjusting function

After entering setting mode screen by pressing setting button among stand-by mode, set ON/OFF function for stand-by screen by pressing alkali button.



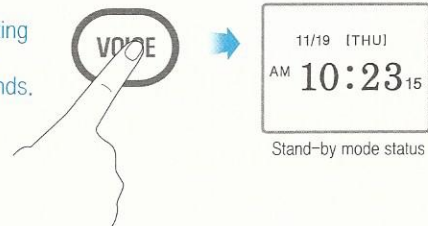
Time and date adjusting function

- 01** After entering time setting mode screen by pressing setting button among stand-by mode, select year, month, date, hour and minute by setting button and adjust them by alkali button and acid button respectively.



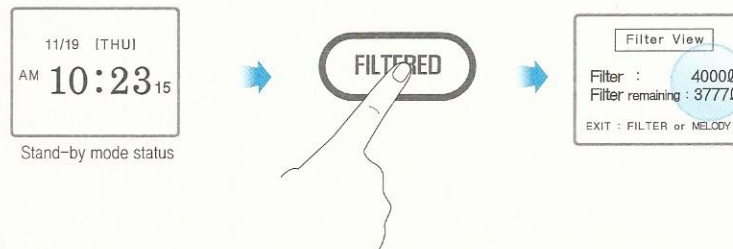
- 02** When saving it by pressing melody button, it is converted to stand-by screen automatically.

※If there is no additional operation after completing volume adjustment, it is saved and converted to stand-by status automatically after 10 seconds.



Function that checks filter capacity and amount of its use

If pressing filter button among stand-by mode, you can check filter capacity and its remaining capacity.



Caution



If you do not use genuine filter and use similar product instead, electrolysis function is not activated, only purified water is discharged and problem may occur at the time of electrolysis because dust and grain generated from activated carbon is flowed into electrolytic cell. Use genuine filter definitely. If there arise some problems, free after service is not available. (Period for free after service: 1 year)

How to change filter

- 01** When lifespan of filter comes to an end, graphic figure of filter indicates 0000 and filter change icon flickers, which is informing that it's time to change filter.



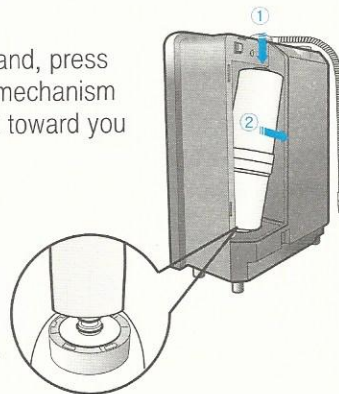
- Stop supplying water by turning power switch on back side of product to OFF position.

- 02** Open the filter housing cover.

- First, slide the cover upwards. Then, slide the cover to the left and remove it.

- 03** Remove the expired filter.

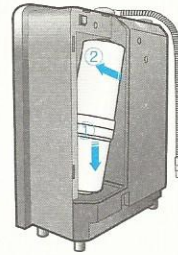
- Taking hold of the filter securely with your right hand, press the filter firmly down against the spring loaded mechanism to disengage the top of the filter and then pull it toward you and up to remove it.
- The upper part of the filter is separated from housing by pressing firmly down. Once you have engaged the spring loaded mechanism, you can then easily remove the filter from the main body by pulling it toward you.



- ⚠ Check for leakage by running water through your ionizer before replacing the housing cover.

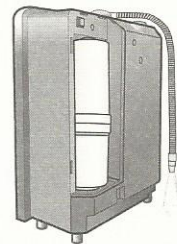
04 Insert the new filter into the compartment.

- Remove the plastic caps covering both ends of the new filter.
- Seat the large opening on the bottom of the filter cartridge onto the base in the center of the filter cushion.
- Push the filter down and into the housing compartment ensuring the opening at the top of the filter is seated properly into the fitting at the top of the housing.



05 Flush out the GAC carbon dust.

- The water will initially come out discolored (light to charcoal gray) due to carbon particulates in the new filter.
- This is normal and is typical of all GAC filters.
- Allow the water to flow for 2–3 minutes in the "Filtered" mode until the water runs clear

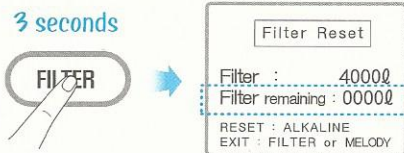


Filter Reset

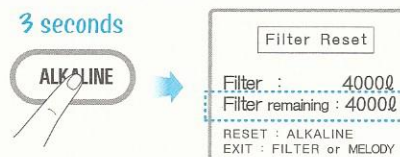
Filter reset function

This is the function that initializes filter by MICOM, of which lifespan comes to an end.

01 Press and hold the filter button for 3 seconds.



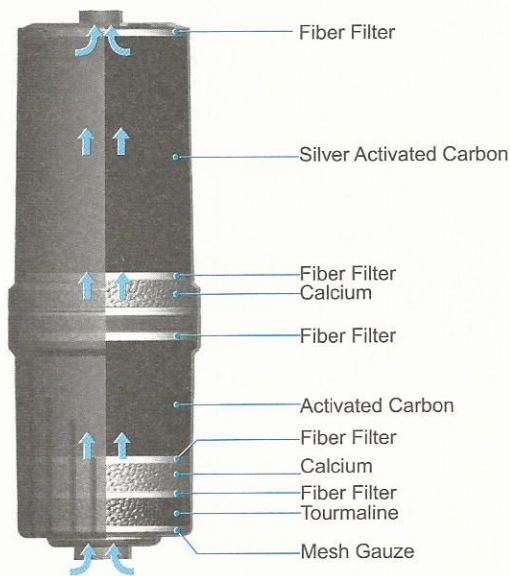
02 Press and hold the alkaline button for 3 seconds.



Reference

If filter is new, initial water can be black and turbid. It is not harmful to health because it is activated dust which is spilled from inside of filter.

Composition of filter



Caution



It is better to use UF(Combined hollow fiber membrane) filter initially, with power off, after making water of 20 ℓ (1kg/cm²) flow for approx. 5 minutes at minimum without fail, in order to eliminate hydrophilic substance.
(If water pressure is below 1kg/cm², a time longer than 5 minutes is needed)

Recommended period for changing filter

Effective period of use of filter may differ greatly depending on season and usage environment (quality and pressure of water and amount of use)

Reference

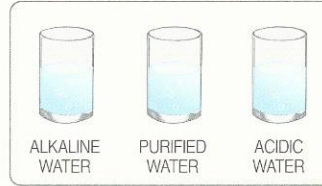
Change filter when follow phenomena occur even filter change icon does not flicker.

- ▶ When water flows little because filter is blocked due to heavily contaminated water
- ▶ When water smells because seriously contaminated water is flowed in
- ▶ When lots of foreign substance in water (turbid water, invisible substance) is eliminated in a short time
- ▶ When reusing it after you do not use it for a long time

How to measure pH

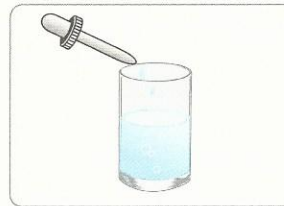
Important Note: Water quality and mineral content vary greatly in different localities and will directly impact performance of your ionizer with respect to pH.

- 01** Fill one of the test tubes provided about 1/4 full with alkaline, acidic or purified water.

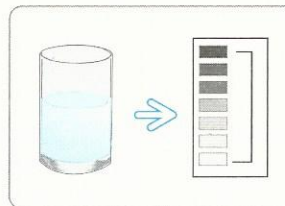


- 02** Drop 2 or 3 drops of the pH reagent into the container and shake it.

If the reagent and water are not mixed well, the correct result may not be and shake it.

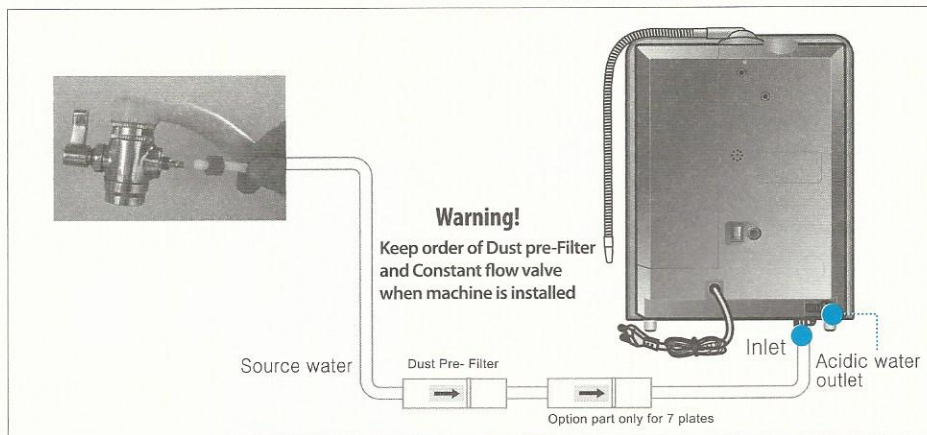


- 03** The pH value is determined by matching the color the pH color chart provided.



Caution

- ▶ DO NOT consume water containing reagent
- ▶ Keep the pH reagent liquid, color chart, and OPEN FLAMES!
- ▶ For contact with eyes, flush liberally with fresh water, seek medical help
- ▶ If ingested, induce vomiting, seek medical help.



Installation method

Your gives you the option of three installation methods:

- 1) at your sink attached to your faucet with a diverter,
 - 2) at your sink but plumbed directly to your cold water line (no diverter) and,
 - 3) undersink – completely out of sight with a small dedicated faucet.
- It is recommended that methods 2) & 3) be done by a plumber.

Installation Method 1) At the sink with a diverter (easiest)

1. ATTACH DIVERTER TO YOUR TAP

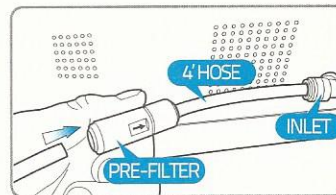
Remove the aerator from tap (pliers may be required), and attach diverter valve in its place. There are adapters supplied in case the diverter does not fit your tap. If you have leaks at the diverter, use plumber's Teflon tape (available at any hardware store for a couple of dollars).

2. CUT A FOUR INCH LENGTH OF WHITE HOSE

Using a very sharp utility knife, cleanly cut a four inch length of the white hose. The cleaner you make your cut, the less likely you will experience a leak.

3. ATTACH THE IN-LINE PRE-FILTER

There is a small black arrow on the pre-filter indicating water flow direction. The arrow on the pre-filter will POINT AT YOU IONIZER indicating water flowing toward the ionizer. Insert the four inch length you cut into the end of the pre-filter making by pushing firmly ensuring the arrow is pointing at the end of the four inch hose. The four inch length will be between your ionizer and the pre-filter.



3-1. Constant Flow Valve will be provided only for 7 plates model and should be installed after pre-filter

Trouble Shooting Guide

The product may not operate by improper use or trivial causes, rather than by break-down. Before contacting the Service Center for repair, please refer to the following:

Symptom	Check point	Troubleshooting
There is no display in the stand-by mode.	<ol style="list-style-type: none"> 1. Is the power cord properly connected? 2. Is the power switch turned ON? 3. Is the fuse broken? 4. Is the fuse holder properly coupled? 	<ol style="list-style-type: none"> 1. Connect the power cord properly. 2. Turn on the power switch. 3. Replace the fuse. (250V/2A) 4. Couple the fuse holder properly.
'Unregistered filter' shown on the display	<ol style="list-style-type: none"> 1. Did you replace the filter with an authentic filter? 2. Did you register an authentic filter? 3. Are you using a non-authentic filter? 	Replace with an authentic filter, and register it.
Even with the supply of raw water, there is no display.	<ol style="list-style-type: none"> 1. Did you replace the filter with an authentic filter? 2. Did you register an authentic filter? 3. Are you using a non-authentic filter? 	Replace with an authentic filter, and register it.
'Registration disabled' appeared on the display.	Have you attempted to register the filter more than 9 times?	Replace with an authentic filter, and register it.
Little or no water dispensed	<ol style="list-style-type: none"> 1. Is the supply of raw water sufficient? 2. Is the filter blocked? 3. Is the Input Hose bent? 4. Is the flow control on the faucet diverter locked? 	<ol style="list-style-type: none"> 1. Check if there is water cut. Check if the raw water valve is open, or the hose is bent. 2. Replace the filter. 3. Straighten the bent hose. 4. Open the flow control device and adjust the flow rate.
Power suddenly turns OFF during operation	<ol style="list-style-type: none"> 1. Is the fuse broken? 2. Have you used the product for a long period of time at once? 	<ol style="list-style-type: none"> 1. Replace the fuse. (250V/2A) 2. The product will stop to protect itself from over-current. Wait for 5 minutes to recommence.
The filter replacement lamp flickers.	Is the filter beyond the replacement cycle?	Replace the filter.

For symptoms other than those listed in this table, please turn power off the product, and contact the Service Center.

Symptom	Check point	Troubleshooting
Water tastes bad.	<ol style="list-style-type: none"> 1. Is the filter beyond the replacement cycle? 2. Electrolyzed reduced water is highly active, although it is suitable as drinking water, a trace of Cl_2 may remain in the water leading to bad smell? 3. Over-electrolysis due to insufficient amount of input water may cause bad smell? 4. Is the hose for input water bent? 	<ol style="list-style-type: none"> 1. Replace the filter. 2. Adjust the pH level. If the problem persists, replace the filter. 3. Fit a booster pump to increase the amount of input water. 4. Unbend.
During the pH measuring test with the pH measuring solution, acidic water turns yellow but alkaline water changes to neutral.	Carbonic acid in water is momentarily turned to neutral due to chemical reaction.	This is harmless to the human body. The sight of it may be unpleasant, but it is safe to drink. Increase the amount of input water, or lower the pH level.
Bottled ionized water has foggy substances settled on the bottom.	Excessive carbonic acid (CO_2) in water bonds with calcium producing calcium carbonate ($CaCO_3$).	Increase the pH level.
No smell at first, but water smells after an hour of storage.	<ol style="list-style-type: none"> 1. Is the container contaminated? 2. Do you live in the area where water contains a lot of salt? 	<ol style="list-style-type: none"> 1. Use a glass container with a cap, and wash it often to keep clean. 2. The level of permittivity may vary from place to place due to varying degree of excessive electric charge. Lower the pH level.
Water leaking around the filter or somewhere inside the product.	<ol style="list-style-type: none"> 1. Is the filter properly fitted in? 2. Is the leakage from somewhere other than the filter? 	<ol style="list-style-type: none"> 1. Remove the filter, check the O-ring and put the filter back. 2. Stop immediately and contact the Service Center.
No water dispensed from the Acidic Output.	<ol style="list-style-type: none"> 1. Is Water Output blocked? 2. Is the Water Output Hose bent? 	<ol style="list-style-type: none"> 1. The output line should be positioned lower than the Water Output of the product. 2. Unbend.