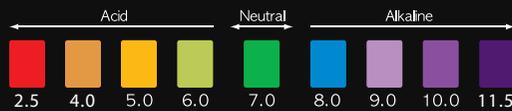




www.tyentusa.com

- The user is responsible for improper use of the products such as use in any manner for which the product was not originally intended and any damage that may occur from such improper use.
- This product is subject to changes that enhance its performance without prior notification.

### pH Chart



How to Measure pH: Place approximately 2 tablespoons (30mL) of test water in a container and add 4 drops of pH reagent. Then, mix well and check the color of the water with the pH chart above (The color of the water will change according to its pH.)

- If the power cord is damaged, it must be replaced by the manufacturer, or a similarly qualified Tyent repair person in order to avoid a hazard.
- This appliance is not intended for use by persons (including children) with reduced physical sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.



MADE IN KOREA



# TYENT User Manual

- This product is intended for domestic use only.
- Keep this User Manual handy for easy reference.
- Carefully read this User Manual, particularly "all safety warnings."

WATER FOR WELLNESS

## To Our Valued Customers

Thank you for purchasing the **ACE-13 (YT22-4TL) Water Ionizer**. Please read all safety warnings and this User 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 the improper use of this machine.
- Please keep the manual, warranty card and a copy of your receipt in a safe place, so that it's easily accessible when you need it.
- Please refer to this manual when you have questions about how to use or how to troubleshoot this unit.

## Intended Use

This device creates **functional alkaline ionized water**. It changes the properties of regular tap water through the use of electrolysis and enables the following changes to occur:

- An increase or decrease in pH level
- Creation of negatively charged hydrogen ions (antioxidants)
- Purification through filtration
- An increase in molecular hydrogen

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## Before Usage

Safety precautions are provided 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.



**DANGER (Red Warning Sign)** indicates an imminent hazard that could result in serious injury or death. If you see this sign, stop using this unit immediately.



**WARNING (Orange Warning Sign)** indicates a potential hazard that could result in significant bodily harm or damage to the unit. If you see this sign, stop the use of this unit.



**ATTENTION (Yellow Warning Sign)** indicates a potential hazard that could result in minor bodily harm or damage to the unit.

1. Do not drink functional water with medication. When taking medication, use “clean H<sub>2</sub>O” filtered water thirty minutes prior to taking medication as well as with medication. You may resume drinking functional water thirty minutes after taking medication.
2. Always consult your primary care physician before drinking functional water. Only drink a small amount near a neutral pH level for the first week. This will give the body time to adjust to functional water during the detoxification period. See Welcome Guide for full details on getting started.
3. If you notice any negative effects from drinking functional water, stop drinking the functional water immediately and consult your primary care physician about changes in your body’s pH level.
4. If you are currently under the care of a primary care physician for an existing condition, consult your primary care physician about how changes in pH and other characteristics of functional water could affect your medical condition.
5. If you suffer from gastric acidity, kidney failure or potassium excretion, you should not drink functional water.
6. Verify the pH levels of the functional water dispensed from this unit on a monthly basis to ensure proper function. This can be done with the supplied reagent drops and a pH color chart.
7. When switching from one pH to another, it is good practice to let the water run for several seconds before using.
8. It is common to drink half your body weight in ounces. For example, if you weigh 180 pounds, it may be wise to drink 90 ounces every day of water per day. This especially applies after you have given your body some time to adjust to the new pH level.
9. The recommended drinking level for functional water is 9.5 pH (+-0.3). It is not recommended to drink functional water above a pH of 10.
10. If you wish to store functional water, use a glass or other nonleaching material with an airtight lid and store it in the refrigerator. Functional water will begin to weaken immediately and will lose most of its benefits after 3 days.
11. Never run hot water through this unit.
12. Never drink acidic or turbo water.

## Safety Precautions and Warnings

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

### Regarding the Power Supply



Do not use if the power cord is damaged or in a loose power outlet.



Do not pull the power cord. Never touch the power cord or the power outlet with wet hands.



Do not forcibly bend, squeeze, damage or crush the power cord under heavy objects.



Unplug the power cord during general maintenance, repair and inspection and while replacing parts.



Do not use power surge protectors with this unit. Use unit with its own dedicated power source.



 Only use the unit with the correct voltage. Units sold in the USA and Canada are designed to be used with between 110 and 120 volts AC. Plugging your ionizer into an outlet with a higher voltage than this will cause serious damage to the ionizer.



 To reduce the risk of electric shock, do not remove the cover; there are no user-serviceable parts inside. Refer servicing to qualified service personnel. Removing the cover will void the warranty.



**Installation**

 Do not place this unit near heat sources.



 Do not place this unit on an uneven surface. Do not drop or use excessive force on this unit.



 Do not connect the water line to a hot water supply. Please use a new hose to connect with water line. (Do not reuse old hose as it can cause leakage.)



 Do not use unfit raw water in accordance with the standards of the water service act.



 Do not use in areas of high humidity and/or high temperature.



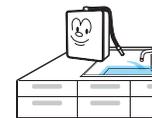
 Install the drain faucet with suction cup near your sink and adjust the position of the drain faucet's metal spout to drain into the sink.



 Make sure the drain faucet is positioned lower than the unit.



 If the unit is not used for a few days, let the water run for 1-2 minutes before drinking functional water.



 Do not run the water for longer than 1 hour.



**Usage**

 If the unit won't be used for a long time, shut off the valve and unplug the power cord.



 If you hear strange noises, smell a burning odor or see smoke, unplug the power cord immediately and call qualified personnel for service.



 Replace filters every 6 months to optimize the purification performance of this unit even if the replacement indicator light isn't turned on.





Do not place any objects on top of this unit no matter how small they are.



If water leaks out of the unit (other than the hoses) or if the unit is standing in a puddle of water, shut off the water supply, unplug the power cord and contact qualified service personnel for service.



Do not poke or scratch the touch pad or LCD display with sharp objects.



In areas of hard water (calcium scaling present on faucets), notify your service provider and install a cell safe antiscaling prefilter to protect the ionizer from scaling.



Do not use alkaline or acidic water in fish bowls or aquariums. The sudden change in pH could be harmful or fatal to some marine life.



It is beneficial for the maintenance of the machine to run a strong acidic level for 5-minute cycles twice weekly. This will help to maintain a clean chamber.



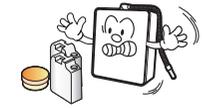
It is normal for condensation to be present on the unit during humid summer months. If condensation persists despite weather conditions, unplug the power cord and refer servicing to qualified service personnel.



### Cleaning



Do not store the unit near chemicals, food, metals or medication



Do not spray water on the main unit. Do not clean the unit with benzene or other chemicals, which may leak into the unit. If using a damp cloth, be very careful not to get electronic display wet.



**Danger: Do not use benzene or thinner!**

### Storage



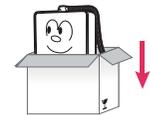
Remove the filters and turn them upside down to remove excess water before storing.



If the original packaging is not available, cover the unit in plastic to avoid scratching the surface.



Store the unit in its original packaging in a cool, dry place when not in use.



Carefully remove this unit from its packaging. Keep the original packaging for future storage and unit transportation.



## Product Features

### FULL TOUCH LCD – TRANSFORMATION AT YOUR FINGERTIPS



#### The Industry's First Full Touch Screen Panel

A new capacitive touch screen offers a marked improvement in responsiveness to touch over older resistive touch screens.



#### Touch LCD Screen with a Clear Picture Tone

A 262,000 color touch and LCD display provides a range of information in true vivid colors for user convenience.



#### GUI [Graphical User Interface]

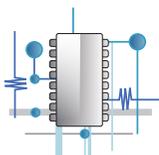
The graphical user interface is designed specifically for ease of use and operation. The communication between the user and ionizer has never been this simple!

### A MORE POWERFUL SYSTEM ENGINE!



#### Upgraded Power Turbo System

The Turbo feature has been upgraded within the SMPS Plus® power system. This upgrade will produce both stronger acidic turbo water and stronger alkaline turbo water.



#### Powered by SMPS Plus® Power Supply System

SMPS Plus® Power Supply System provides the maximum output needed to produce highly stable electric power required for each phase of electrolysis. SMPS Plus is engineered specifically for adjustability and variable voltage, which allows the unit to be customized for your unique source water.



#### Electrodes with Solid/Mesh Hybrid Technology

These platinum-coated titanium plates are made with highly stable, durable Solid/Mesh Hybrid Technology that enhances the instantaneous electrolysis effect.

### IMPORTANT CONSIDERATIONS FOR THE USER



#### Proximity sensor function for automatic water outflow

For hygienic purposes, water is automatically dispensed when you move your hand close to the proximity sensor and it stops when you move your hand close to the sensor again, allowing you to get water while cooking or when your hands are wet without actually touching the ionizer. You can choose the type of water that you want to be dispensed in advance by activating the proximity sensor.



#### Convenient Jog Dial Operation

For your convenience, you can also perform the most basic operations with the front jog dial. Select any pH level of water that you would like to dispense. You can also start and stop the flow of water using the jog dial. The jog dial changes color with the type of water selected.



#### Fixed quantity discharge function

For your convenience, the ionizer has the ability to dispense a predetermined amount of water and then stop. Presets include 0.5L, 1.0L & 1.5L. These presets can be further adjusted with the jog dial.



#### Excellent Sound Quality with Guided Support

Top-quality voice guidance system ensures that you are always informed about what your ionizer is doing.



#### Multiple Languages Supported

The graphical user interface and voice guidance supports multiple languages from around the world.



#### Temperature Sensor Function for Safe Operation

If the temperature of the source water exceeds 95°F(35°C), the water will stop flowing and a warning message will appear on the screen.

## Product Features



15 minutes

### Automatic Water Discharge Interruption Function

In order to prevent the overflow of water due to user negligence, the water discharge is automatically stopped after 15 minutes of use.

※TURBO: 5 minutes



### Automatic Electrolysis Tank Cleaning Function

The interior of the electrolysis tank is automatically cleaned on a regular basis, ensuring stable electrolysis operating conditions.



### Automatic Memory Function

The last function used by the user is automatically memorized and displayed on the standby screen for fast and convenient operation.



### Water Discharge Nozzle with Directional Control

The water discharge direction may be adjusted to many diverse angles based on user preference.

## SELF-MAINTENANCE MADE EASY – FROM INSTALLATION TO SERVICE



### On Screen Filter Usage Indication

The level of filter usage can be identified through the LCD screen on a real-time basis. New filters start at 00% used and count up to 100% used.



### Super Simple Filter Replacement System

A simple filter replacement system along with a touch screen filter reset feature makes filter management easy for anyone.



### Intuitive Touch Screen Operated System Settings

The unit features an easy to understand setting system, allowing users to conveniently customize water power settings, time, date, the appearance of the interface and



### pH Control Function

Individual alkali, acid and turbo presets can be easily adjusted by the user to suit their source water.



### Self-Diagnosis Function

When the condition of the source water is not suitable, the water discharge is automatically suspended, displaying a warning sign on the screen.

## CARE FOR THE ENVIRONMENT



### Earth-Friendly Technology When in ECO Mode

When setting the eco-mode, the LCD backlight will be turned off automatically during periods of nonuse and the Time function is displayed.

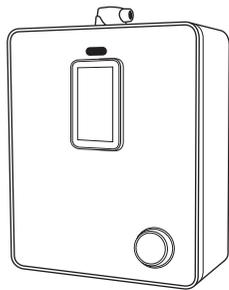
## FRESH, PURIFIED WATER IS A MUST ALONG WITH HEALTHY MINERALS!



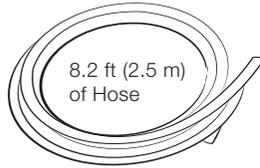
### Water Purification through a Filtration Process

Perfect, seamless elimination of foreign substances including residual chlorine, organic & inorganic compounds through a filtering process using Activated Carbon and UF micro-Ceramic materials, enhancing the alkali water quality.

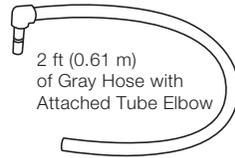
## Package Contents



Water Ionizer



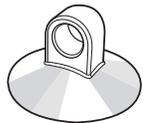
8.2 ft (2.5 m)  
of Hose



2 ft (0.61 m)  
of Gray Hose with  
Attached Tube Elbow



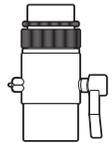
Water Outlet Tube



Tube Suction Cup



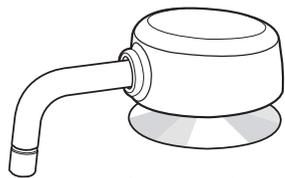
Stem Elbow



Faucet Diverter



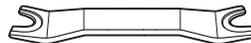
Assortment of Connectors  
and Rubber Washers



Drain Faucet  
and Tube Suction Cup



pH Testing  
Solution Bottle



Wrench

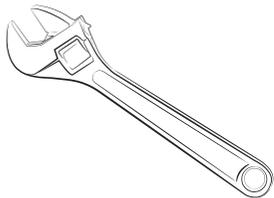


User Manual

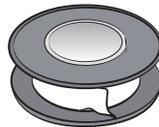
### Tools You Will Need



Utility Scissors



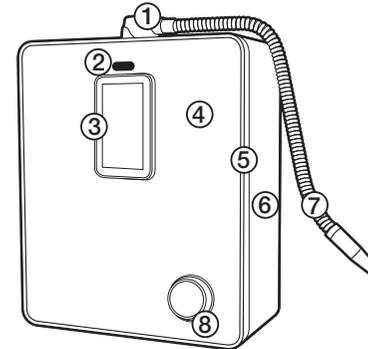
Adjustable Wrench



Plumber's Tape

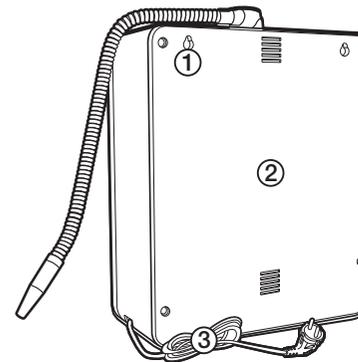
## Unit Overview

Make sure you are familiar with the parts and features of this unit, and carefully read the User Manual and other important information.



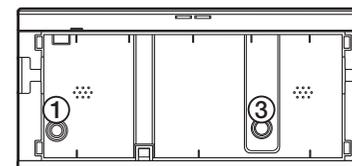
### Front View

1. Water Outlet Unit
2. Proximity Sensor
3. LCD Display
4. Front Cover
5. Door Case
6. Front Case
7. Water Outlet Tube
8. Jog Dial



### Rear View

1. Hanging Groove
2. Rear Case
3. Power Cord



### Bottom View

1. Water Inflow
2. Water Outflow

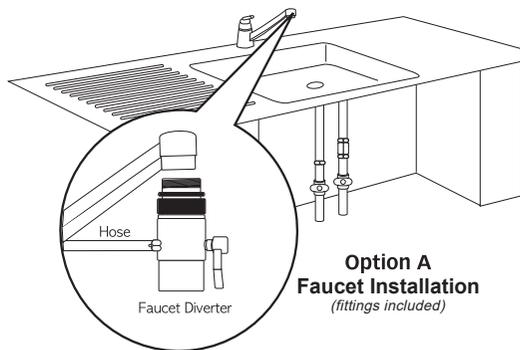
## How to Install the Unit

Determine whether you will connect the unit directly to the cold water supply line (under sink) or to the faucet (see image).

- **Option A | Faucet:** A faucet connection requires a faucet diverter (included).
- **Option B | Under-Sink:** An under sink connection requires an under-sink adapter kit (not included) or a compatible t-valve (available from most hardware stores). For more information see Welcome Guide or call support.

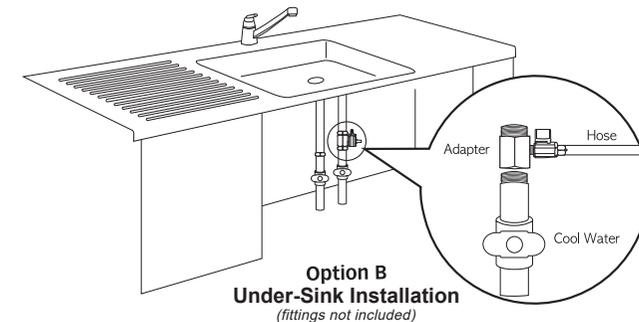
### Option A – Faucet Installation

Many faucets vary in design, and your faucet may require different setup instructions than those featured in this manual. Please consult a qualified service professional if you are unable to correctly complete the installation.



1. Shut off both the hot and cold water main supply at the pipe under the sink.
2. If your faucet features a screw-on style aerator, remove it by unscrewing it from the tip of the faucet.
3. If the included faucet diverter does not fit directly to the tip of the faucet, select an appropriate size connector and rubber washer (included).
4. When connecting the diverter or adapter to the faucet, be sure to use plumbing pipe thread seal tape also known as plumbers tape or teflon tape (not included) to prevent leaks.
5. If necessary, connect the faucet diverter with the appropriate connector to the faucet.
6. Be sure all connections are secure but do not overtighten them.

### Option B – Under-Sink Installation

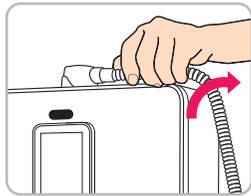


1. Purchase either an under-sink installation kit (not included) or purchase a T-connection (with shut-off valve) from a hardware or plumbing supply store.
2. Shut off both the hot and the cold water main supply at the pipe under the sink.
3. Locate the cold water supply line valve.
4. Disconnect the faucet cold water supply line from the main cold water pipe. Use a towel to catch the small amount of water that may come from the faucet supply line.
5. When connecting the T-connection to the cold water pipe, be sure to use plumber's tape or teflon tape (not included) to prevent leaks.
6. Reconnect the faucet's cold water supply line to the T-connection (now secured to the main cold water pipe).
7. Be sure all connections are secure but do not overtighten them.

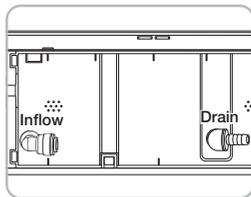
#### Both Options

Do not turn on the main water supply until all hoses are properly installed to the unit. The unit and components are subject to change without prior notification in order to enhance performance.

## Water Hose Installation

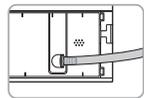


1. Place the unit on the planned installation location and screw the flexible tube clockwise into the water outlet hole positioned at the top of the unit. Do not over tighten.

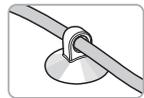


2. Press the stem elbows into the water inflow and outflow holes on the bottom of the unit until you hear a click and feel the hose sit firmly in place.

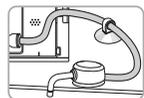
### How to Install the Drain Faucet



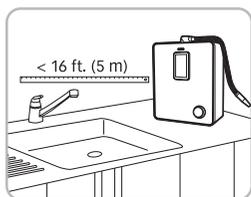
- ① Connect the drain hose tube elbow to the outflow hole located at the bottom of the unit.



- ② Connect the drain hose to the tube suction cup and secure it so that it does not move.

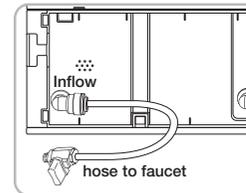


- ③ Connect the drain hose to the faucet and secure it to the proper position on the sink.



3. Measure between the unit's location (on the counter) and the water faucet (or under-sink T-connection) where the diverter (or T-connection) will be installed. Cut enough hose to allow an easy connection from the rear of the unit to the water supply (either using the faucet diverter or the under-sink T-connection).

**Note:** Keep the length from the unit to the faucet under 16 feet (5 meters). You may need a pressure pump or a larger size hose if the pressure is too low. Be sure to leave a few extra inches (centimeters) of length so the faucet can still be rotated.



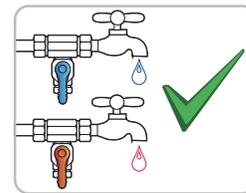
4. Connect the hose from the inflow hole to the cold water supply either at the faucet diverter using Option A, or the under-sink T-connection using Option B.

**Option A:** Remove the nut from the diverter, slide the nut onto the hose, then firmly seat the hose on the faucet diverter and screw the nut over the hose and back onto the faucet diverter.

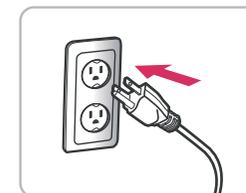
**Option B:** Route the hose through the countertop to the T-connection, then firmly seat the hose on the T-connection and make sure the connection is sealed completely.



5. Make sure all hose connections are firmly seated in the correct holes, both on the unit and at the water supply



6. Turn on both the cold and hot water supply. Make sure there are no leaks at any of the connections. Make sure the faucet is working with both hot and cold water. Make sure there are no leaks from the hose connections on the bottom of the unit. Make sure the hoses are firmly seated in the unit holes.



7. Plug in the power cord. You should hear a series of tones when you power up the unit.



※ INTRO Screen appears in about 10 seconds when initial power is supplied.

## Customer Serviceable Parts

**ATTENTION:** The consumer accepts any and all responsibility and/or liability if replacement filters and/or purchased parts are not manufacturer specific. This unit contains high-performance purifying filters and an advanced control system.



1st Filter

Primary Filter: **YT20 1st Filter**

**Recommended filter replacement cycle:**  
(Every 6 months)

Removes harmful chemicals like chlorine, compounds such as agrichemicals and detergents, large suspended matters like rust and sediments as well as other volatile organic compounds through an efficient activated absorption method. It also eliminates bad smells and any remaining dissolved chlorine.



2nd Filter

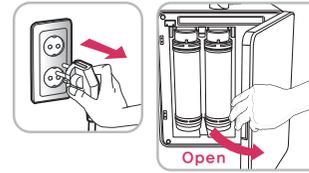
Secondary Filter: **YT20 2nd Filter**

**Recommended filter replacement cycle:**  
(Every 6 months)

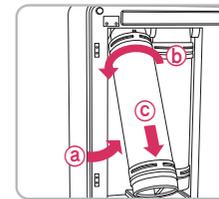
0.01 micrometer filtering film filters contaminated materials including ordinary bacteria, etc. and maintains the minerals in the water.

The life of the filter can vary greatly due to use, water pressure, water quality and the changing of the seasons. Filters may need to be replaced sooner than the scheduled time due to these reasons, you may notice reduced water quality or declining water taste.

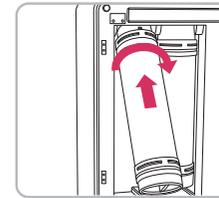
## How to Change the Filters



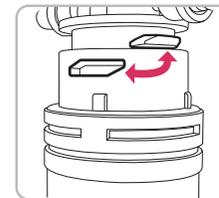
1. Shut off the water supply to the unit and unplug the power cord. Open the door in front of the product.



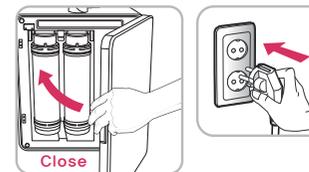
2. Remove old filter:
  - (a) Lift the filter that needs to be replaced.
  - (b) Turn the filter counterclockwise until it loosens.
  - (c) Pull the filter down and remove it.



3. Put the new filter into the right position by turning it clockwise.



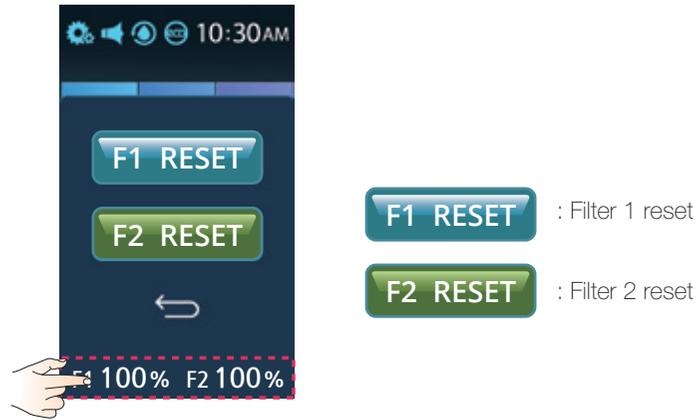
4. When installing the filter, the connection bump of the head and the connection groove on the top of the filter should be completely combined.



5. Close the door, plug the power cord back in and reengage the water supply.

After initializing the filter, press the H<sub>2</sub>O button and run purified water for 3 minutes. It is highly recommended that you follow this process in order to ensure that your machine functions properly.

## How to Reset the Filters



**F1 RESET** : Filter 1 reset  
**F2 RESET** : Filter 2 reset

### 1. First Filter Reset

- ① Press the bottom part of the LCD screen.  
A menu will appear on the LCD screen.
- ② To initialize, press the F1 RESET icon 2 times.  
The lonizer with speak and say "First Filter" then "Initializing was performed" and F1 percentage will go back to 00%.

### 2. Second Filter Reset

- ① Press the bottom part of the LCD screen.  
A menu will appear on the LCD screen.
- ② To initialize, press the F2 RESET icon 2 times.  
The lonizer with speak and say "Second Filter" then "Initializing was performed" and F2 percentage will go back to 00%.

Press the RETURN button to return to the home screen

**CAUTION!** Only reset the filters after they have been changed.

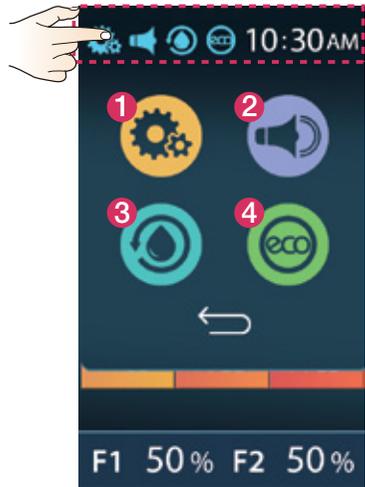
## Operation of the Touch Screen

### 1 Standby Mode



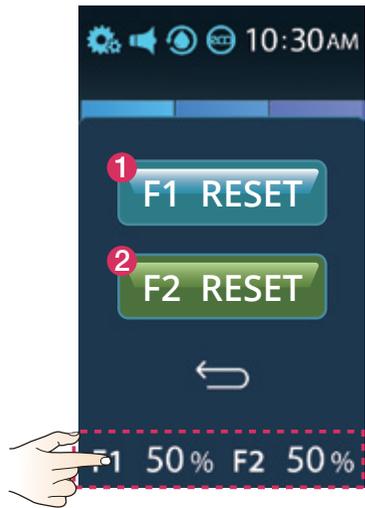
	System setup		Alkaline level 1		Acidic level 1
	Voice on		Alkaline level 2		Acidic level 2
	Voice off		Alkaline level 3		Acidic level 3
	Cleaning		Fixed qty discharge		Filter usage
	Eco mode on		Purified water		Proximity sensor
	Eco mode off		Turbo water		Proximity sensor select

## 2 Menu Window



Push the upper part of the LCD screen.  
The menu window will appear on the LCD screen.

-  1 Setup
-  2 Voice on/off
-  3 Cleaning
-  4 ECO Mode on/off



Press F1 or F2 at the bottom of the LCD screen  
to bring up the filter reset menu.

-  1 Filter 1 reset
-  2 Filter 2 reset

**CAUTION!** Only reset the filters after they have been changed.

## 3 LCD Display



### DISPLAY CHANGES

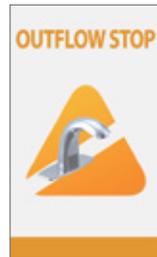
LCD display will match the pH level color according to water pH level being used after icon is pressed.

							
Alkaline Water 3 Violet Color	Alkaline Water 2 Blue Color	Alkaline Water 1 light Blue Color	Clean Water Green Color	Acidic Water 1 Light Yellow Color	Acidic Water 2 Light Orange Color	Acidic Water 3 Red Color	Turbo Water Dark Red Color

4 Message Display



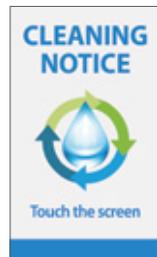
When this image is displayed, it is time to replace the filters (p. 21~22)



After you suspend the water supply to the unit, this message will appear before the water outflow stops.



When this is displayed, water inside the unit is hotter than 95°F (35°C). The water supply will then be shut off and the unit will stop operating temporarily. (p. 44)



When the automatic cleaning time comes, this warning will be displayed.



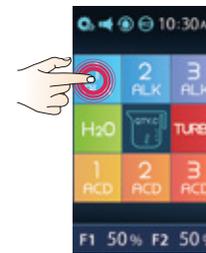
When this image is displayed, the unit is being cleaned, which can be done automatically and/or manually.

Touch Screen Safety Precautions

1. It may be difficult to see the screen in direct sunlight.
2. Do not use sharp or pointy objects to press the screen.

Directions for Product Use

1 When using the Touch Screen



1 Press the desired icon on the LCD screen.



2 Water outflow starts. Screen will display the rate of water inflow and stop time.



3 Press the screen to stop the flow of water.

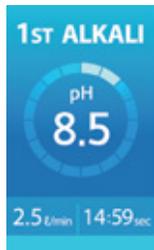


4 When done, the screen moves to the last icon that was used, and then goes into standby mode.

## 2 When using the JOG DIAL



- 1 Turn the dial either direction to select function. The white outline means it's selected.



- 2 Push the center of the Dial to start the water outflow. The screen changes to selected level.



- 3 Press the Jog dial to stop the flow of water.



- 4 When done, the screen will move to last icon that was selected and go into standby mode.

## 3 When using fixed quantity discharge function

### When using the Touch Screen



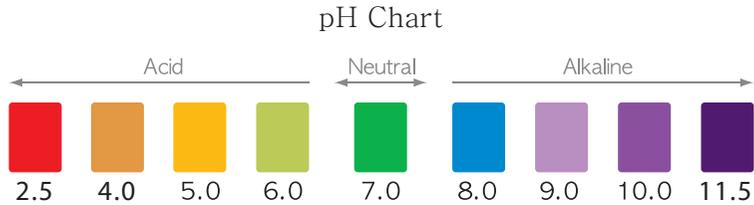
- 1 Touch the QTY.C icon and choose the fixed amount of water. (0.5 l, 1.0 l, 1.5 l) (0.5 » 1.0 » 1.5 » release)
- 2 Select a desired water mode.
- 3 Water outflow stops automatically. (Fixed quantity discharge function is released after water comes out)

### When using the JOG DIAL



- 1 Touch the QTY.C button.
- 2 Select the fixed amount of water that you need by turning the jog dial.
  - Clockwise: Increasing by 100ml (Max.5L)
  - Counterclockwise: Decreasing by 100ml (Min.200ml)
- 3 Push the discharge level that you need.
- 4 Automatic stop after discharging the fixed amount of water that you selected. (Discharge of water will stop if you press the button again during water discharge.)
- 5 After the water discharge completes, the fixed quantity function is released.

## pH Level Adjustment



When testing the pH, be sure to allow the unit to run for 1 minute (60 seconds) before taking a sample of the water. If you have to adjust the percentage, after adjusting, run an additional 1 minute before taking a new sample. When testing pH values, we like to use 2 tablespoons (30mL) of the water being produced and 4 drops of the reagent in a clear glass. The minimum and maximum Turbo waters produced will depend on the water source quality. Set Turbo at 99% for maximum pH levels. These levels can range normally as follows:

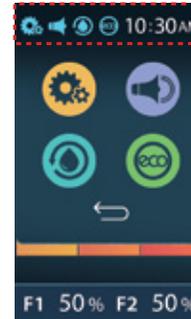
### Color of pH testing of each level:

- Alkaline Turbo (dark purple)
- Acidic Turbo (red)
- Alkaline Level 1 Approx. 8.0-8.5 pH (light blue)
- Alkaline Level 2 Approx. 9.0 pH (light purple)
- Alkaline Level 3 Approx. 9.5 pH (purple)
- H2O = Approx. 7.0 pH (green) Purified Water
- Acid Level 1 Approx. 6.5~5.5 pH (light greenish yellow)
- Acid Level 2 Approx. 5.5~4.0 pH (light orange)
- Acid Level 3 Approx. 4.5~3.5 pH (dark orange)

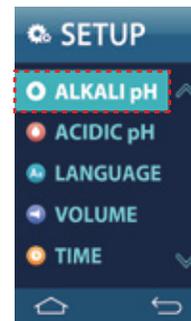
\* The pH value indicated for each level is based on standardized test results which have used average tap water.

## System Setup Method

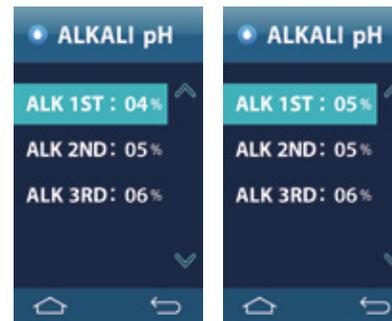
### 1 ALKALI pH Level Adjustment



- 1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.
- 2 Press the setup icon.



- 3 Press **ALKALI pH**.



- 4 Press the desired level that you would like to adjust. (level will highlight in blue)

With the desired level highlighted press to raise the percentage of power or press to lower the percentage of power for that level. Pressing either arrow once will change the value by 1% in that direction. Holding the arrow will cause the percentage to change continuously until the arrow is released.

When done push the RETURN icon for the previous menu screen. Voice says: "Applied"

Then push the RETURN again to leave System Setup. Voice says: "Setup was completed"

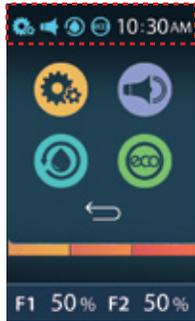
**\*VALUES SHOWN ARE EXAMPLES ONLY AND ARE NOT TO BE TAKEN LITERALLY\***



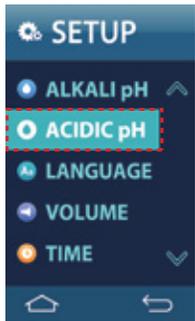
If you push the UP/DOWN icon, the digital number will increase or decrease by one level.

Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

## 2 ACIDIC pH Level Adjustment



- 1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.
- 2 Press the setup icon. 



- 3 Press **ACIDIC pH**.



- 4 Press the desired level that you would like to adjust. (level will highlight in blue)

With the desired level highlighted press  to raise the percentage of power or press  to lower the percentage of power for that level. Pressing either arrow once will change the value by 1% in that direction. Holding the arrow will cause the percentage to change continuously until the arrow is released.

When done push the RETURN icon  for the previous menu screen. Voice says: "Applied"

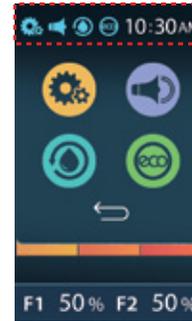
Then push the RETURN  icon again to leave System Setup. Voice says: "Setup was completed"

**\*VALUES SHOWN ARE EXAMPLES ONLY AND ARE NOT TO BE TAKEN LITERALLY\***

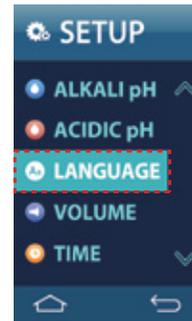


Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

## 3 LANGUAGE Mode



- 1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.
- 2 Press the setup icon. 



- 3 Press **LANGUAGE**.



- 4 Press the desired language.

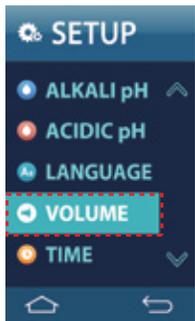


Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

### 4 VOLUME Level Adjustment



- 1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.
- 2 Press the setup icon. 



- 3 Press **VOLUME**.

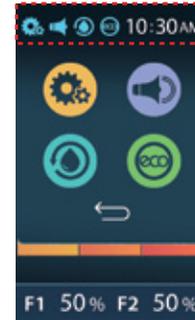


- 4 Press the  button to increase the volume.  
Press the  button to decrease the volume.

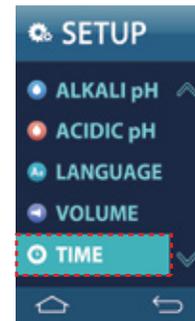
 Pressing this icon will let you hear a sample of the voice at the current volume.

 If you push the UP/DOWN icon, the digital number will increase or decrease by one level.  
Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

### 5 Setting the TIME



- 1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.
- 2 Press the setup icon. 



- 3 Press **TIME**.



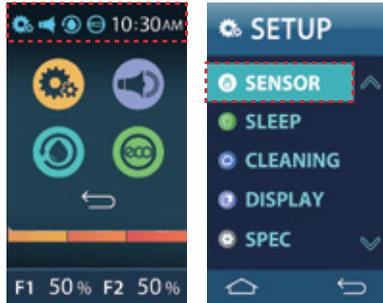
- 4 Adjust the time and date with the arrows:  
 (a) Year    (b) Month    (c) Day  
 (d) Hour    (e) Minute

 : for up     : for down

Time is set here using a 24 hour clock (military time).  
Outside of this menu the time is displayed with a standard 12 hour clock.

 If you push the UP/DOWN icon, the digital number will increase or decrease by one level.  
Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

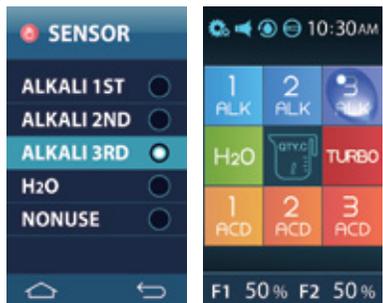
## 6 PROXIMITY Sensor Setting



1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.

Press the setup icon.

2 Press **SENSOR**.



3 Touch the level that you would like to be triggered with the proximity sensor.

The selected level will be highlighted with a water droplet when you leave System Setup.

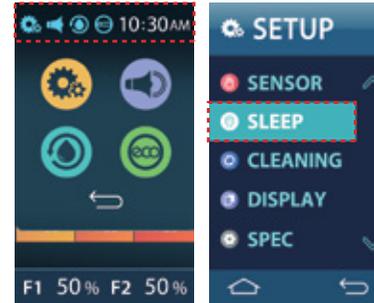


4 When you move your hand close to the proximity sensor the previously selected level (the one with the water droplet on the homescreen) will begin to pour. Move your hand close to the proximity sensor again to stop the flow of water.



Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

## 7 SLEEP Mode Setting



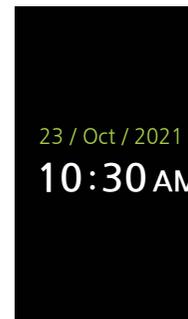
1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.

Press the setup icon.

2 Press **SLEEP**.



3 Set the Sleep mode timer to your preferred time.

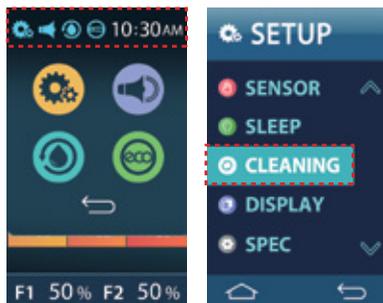


4 Power save mode is enabled when not in use during the set amount of time.



Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

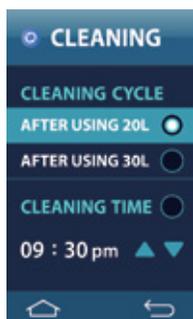
## 8 CLEANING Mode Setting



1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.

Press the setup icon.

2 Press **CLEANING**.



3 Select **CLEANING CYCLE**.

You can choose to have the automatic cleaning occur after a predetermined volume of water is poured, or you can choose to have the cleaning cycle run at a certain time of the day.

**Note:** The actual cleaning cycle will not start on its own. Instead, the unit will wait until the next time that you use the machine, and it will begin then.

To set a time for cleaning, touch the current set time and use the up and down arrows to make adjustments.



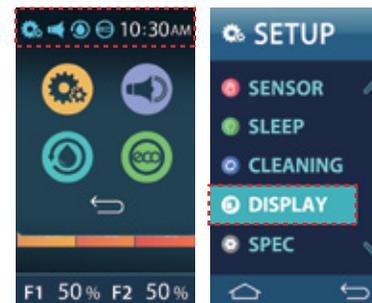
4 Select **CLEANING TIME**.

- ※ You can set up the cleaning cycle as a time.
- ※ You can automatically start cleaning at the set time every day.
- ※ To set a time for cleaning touch the hour or minutes and use the up and down arrows to make adjustments.



Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

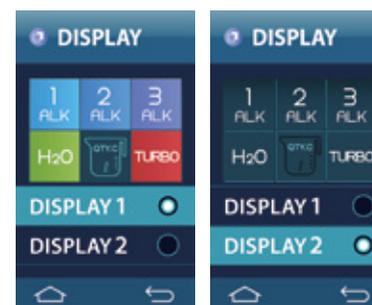
## 9 MAIN Display Setting



1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.

Press the setup icon.

2 Press **DISPLAY**.



3 One of the two main display designs can be set as a main.

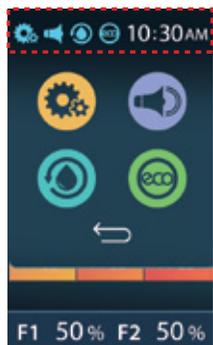


4 The display appearance you select will be reflected when you return to the home screen.

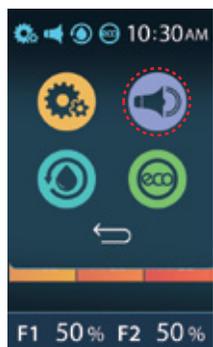


Push the RETURN icon for the previous menu screen. Voice says: "Applied"  
Push the RETURN icon again to complete setup. Voice says: "Setup was completed"

## Selecting Voice ON/OFF



- 1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.



- 2 Select the **VOICE** icon. 

※ Even if the volume is turned off, warning notifications will still play through the speaker if necessary. (filter replacement, water not supplied, TEMP, cleaning, setup mode).



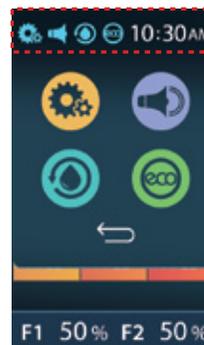
- 3 The voice will be turned on/off by selecting the voice icon in this sequence.



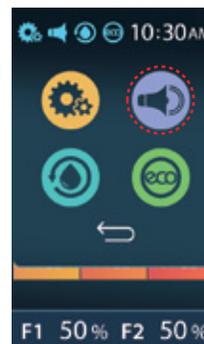
If voice function is already on, then pressing the voice icon will turn it off.

If voice function is already off, then pressing the voice icon will turn it on.

## ECO Mode



- 1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.



- 2 Select the **ECO** icon. 



- 3 Turn on/off ECO Mode by selecting the ECO icon in this sequence.



If ECO function is already on, then pressing the voice icon will turn it off.

If ECO function is already off, then pressing the voice icon will turn it on.

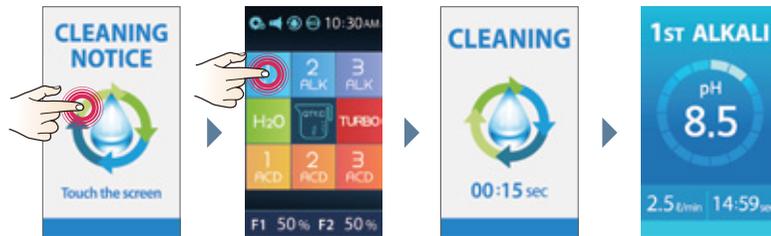
When ECO Mode is active, the unit consumes less power by going to sleep when not in use and displaying the time. The period before the unit goes to sleep if ECO is active is set under SLEEP in System Settings

## CLEANING Function

Cleaning can take place automatically and/or manually.

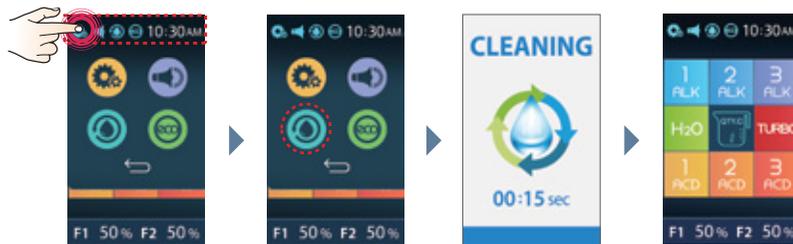
- Auto Cleaning (15 Seconds). Auto cleaning can be set to happen after a set amount of water, 20L or 30L or every 24 hours at a time of your choosing. For more information, see Cleaning Mode Settings on Page 38.
- Manual Cleaning (15 seconds) is performed whenever desired by simply touching the  icon.

### Auto Cleaning



- 1 If the screen is touched, it changes to the previously used screen.
- 2 When functional water is selected on standby mode, it goes into automatic cleaning for 15 seconds, and the selected functional water will be dispensed.

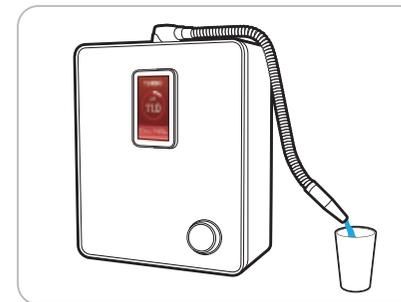
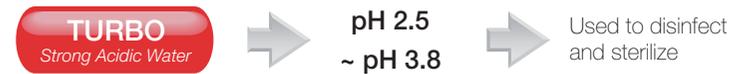
### Manual Cleaning



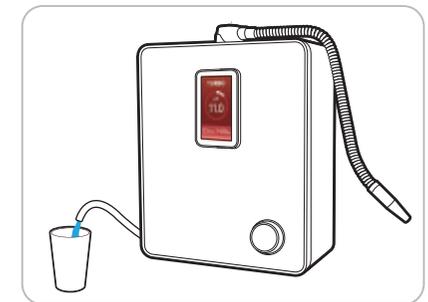
- 1 Press the top left corner of the screen. The menu options will fall below the upper part of the screen.
- 2 Press the CLEANING icon. 
- 3 Cleaning mode stops after 15 seconds and the screen changes to the home screen.

## TURBO Function

The TURBO function allows you to create strong alkaline and acidic water. These types of water are **ONLY** to be used for cleaning, sanitizing and disinfecting purposes. The minimum and maximum pH of turbo will vary depending on the quality of your source water.



Alkaline Turbo Water Outflow



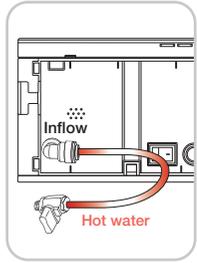
Acidic Turbo Water Outflow

### Caution



The waters produced in **TURBO** mode are not intended for drinking. **DO NOT DRINK** these types of waters.  
**DO NOT USE** the **TURBO** function in a manner other than directed.

## Temperature Sensor



1 Should water with a temperature higher than 35°C (95°F) get into the unit, the water supply will automatically be shut off, and the unit will stop operating temporarily.



2 LCD: **TEMP ERROR**

3 Bring the source water temperature within the proper range.



4 If you press the error icon, the display will switch to the previously used screen.



5 When the source water is within the proper range, the ionizer will resume proper function and water will flow.

## Unit Specifications

Model Number	YT22-4TL13D	YT22-4TL11D
Electrolytic Cell Quantity of Plates	13	11
Power Consumption	Max 220W	Max 220W
TURBO Function	○	○
Product Name	Water Ionizer	
Rated Voltage	100 -130 V~□ , 200 -240 V~□ / 50-60 Hz □	
Available Temperature	4 -35°C (39 -95°F)	
Operating Pressure Range	0.1- 0.5 MPa	
pH Levels	3 Alkaline, 1 Neutral, 3 Acidic, Turbo	
Adjustable pH	User adjustable pH levels control	
Filter Configuration	Dual .01 Micron Filtration System	
Filter Life Display	LCD filter replacement and announcement	
Water Cell Plate Materials	Platinum and Titanium	
Product Size	W300 x D135 x H355 mm (11.8 x 5.3 x 13.9 inches)	
Product Weight	approx 5.0kg (11.1 Lbs )	

※ To ensure the best functionality, there may be some minor changes without notice.

# Troubleshooting

Symptoms	Checkpoints	Measures to be Taken
Abnormal Taste	Check period of use	Run the unit for one minute, draining stagnant water
	Check the last time the filter was replaced	Replace the filter
	Check that pH is not higher than 10pH	Calibrate pH
Water Outflow Change	Check whether the valve on the water supply is closed	Open the Valve
	Check whether the hose is bent or folded	Stretch out the hose
	Check whether the flow rates are low (less than 1L/ min)	Contact us to install a water pump
	Check whether the water supply is cut off or whether the water supply line is frozen	Wait until water comes out of the water supply pipe
Incorrect pH levels	Check whether the filter is clogged	Change the filter
	Check TDS of water	Water quality varies by region
	Check flow rates for higher levels	Reduce the amount of raw water
Filter replacement icon remains "on" even after filter has been replaced	Check whether the amount of drained water is small	Contact us. Request after-sales service
	Check whether the filter usage has been reset	Reset filter usage
Unit stops during use	Check whether the operating time exceeds 15 minutes (*Turbo function: 5 minutes)	Unit stops automatically after 15 minutes (*Turbo function: 5 minutes)
Unit leaks	Check the filter for proper mounting	Unplug unit Contact us
	Check other areas of the unit	
Settlement in extracted water	Check for excessive calcium in the source water	Contact us for an additional filter
Only purified water is extracted	Check whether the flow rate is high (5 kgf/cm <sup>2</sup> or faster)	Contact us to install a pressure-reducing valve
The Unit doesn't operate in cleaning mode	Check whether the operating time exceeds 24 hours	The unit returns to normal after performing auto cleaning for 15 seconds
	Check whether the cleaning icon is pressed	
The screen turns off	Check the Sleep settings in System Setup * Check the set time	Unit automatically switches to power saving mode when not in use for a period of time If you do not want this turn off ECO mode.

# Product Warranty

1. This product features a lifetime warranty. If any manufacturing defects or spontaneous failures occur during the warranty period, the unit will be repaired or replaced at no charge.
2. If any failure occurs, please call the service center. Note: The answers to many service questions can be found online at [tyentusa.com/support](http://tyentusa.com/support).
3. In case of a failure resulting from the customer's negligence or intentional damage of the product, the customer shall be responsible for repair or replacement costs.
4. This warranty is non-transferable and valid only for the original owner.

Product Name	Water Ionizer	Warranty Period
Tyent Water Ionizer	<input type="checkbox"/> ACE-11 <input type="checkbox"/> ACE-13	Lifetime (Above conditions apply)

Customer's Name/Phone	Date of Purchase
Customer's Address	Installation Date/Name



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