

## ChungHo Water Purifier NEW DIGITAL *User's Manual*

### CHP-4010S

- ▶ Read the user's manual thoroughly before using the unit.
- ▶ The rated voltage of this unit is 220-240 V~/ 50 Hz only
- ▶ Unit appearance, specification, etc. are subject to change without prior notice if necessary for improving unit performance.
- ▶ Design and color may differ from the picture.



## Greetings

We greatly appreciate your purchase of "ChungHo Water Purifier NEW DIGITAL". This unit is manufactured according to standard specification, and produced with a reliability test on all integrated components. The system is tested thoroughly on strict quality guidelines including temperature, moisture, shock, dust, vibration, drop, etc. We are sure that these various production processes will provide the utmost customer satisfaction in both quality and excellence.

Before installing or using the product read this user's manual in detail and please keep it for your future reference

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# 1. Product features

## ① 24 hour natural water circulation system(N.W.P.W)

ChungHo Nais purification system is designed to allow water to continuously flow for 24 hours within the water purifier by adopting a natural circulation method. This mode, entitled N.W.P.W. applies the natural weight of water pressure in order to always supply clean and fresh water. (patent : No.105585)

## ② Touch Sensor Application

Unlike ordinary button applications, ChungHo Water Purifier NEW DIGITAL has a built-in touch sensor buttons. The easy-touch sensor application is designed for effortless and enjoyable drinking water with ice.

## ③ Water level detection sensor

Differed from ordinary float level sensor, a capacitive sensor is used for improving water level detection accuracy without a float. Capacitive sensor stably detects water level in more reliable and safer way. The signal from the sensor is sent to a controller in order to automatically adjust purified water level.

## ④ Easy replacement of filters

It is convenient to replace filters as they could be detached by just lifting them.

## ⑤ Power Saving Function

While hot water is working, light detection sensor detects a light density of around the unit. Hot water system is automatically ON/OFF in accordance with light density to save energy.

## ⑥ Safety from hot water

If hot water is selected and users do not take hot water for some time, hot water selection is released to prevent burn injuries.

## ⑦ Constant water dispensing function

It enables users to take ambient or cold water constantly by pressing "COLD/AMBIENT" touch button for 3 sec.

※Hot water is not available for constant water dispensing function.

## ⑧ Display of abnormal occurrence and reinforced safety function

The safety features of the product have been enhanced in order to prevent various problems. The system will inform the users of abnormal occurrences through a flashing display LED and by automatically stopping ambient, cold and hot water functions when an abnormality in the system is detected.

## ⑨ Automatic Water Dispensing

This system enables users to obtain hot, cold and ambient water by lightly pushing the dispensing button.

# 1. Product features

## ⑩ Operation Beep Sound

This provides users with sound effects (Ding, Dingdong~ etc) which indicate operation setting upon pressing button by changing its sound.

## ⑪ Default function

Water selection is programmed to return to cold water selection. If user doesn't take ambient water more than 10 seconds, it automatically returns to cold water selection.

Likewise, after 5 seconds of hot water dispensing, the selection of hot water is canceled to prevent the risk of burns from children or the elderly people.

## ⑫ Automatic filter cleaning system

Automatic filter cleaning system is applied to constantly maintain the filter quality by eliminating accumulated contaminant.

## 2. Safety precautions

Cautions are divided into 2 categories: '**Danger**' and '**Caution.**'



### Danger

Associated with the possibility for serious injury or death.

- When the power cord has been damaged, change the power cord in order to prevent danger such as an electric shock, etc.

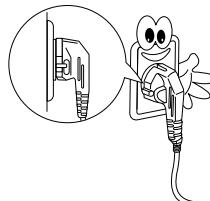
**(Do not use damaged or loose wall outlets.  
An electric shock or fire may occur.)**

- Do not touch the power plug with wet hands.  
**(An electric shock may occur.)**



- Keep the cord out of heavy traffic areas.

**(This can lead to overheating  
the outlet.)**



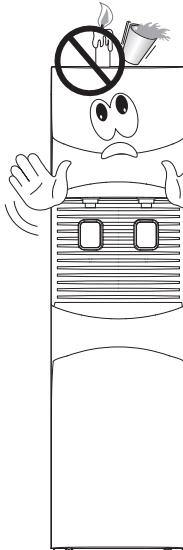
- Insert the power plug in a stable position properly in order to avoid swinging.

**(Unstable connection may cause a fire.)**



- Do not bend the power cord excessively or put heavy objects over the power cord.

**(An electric shock or fire may occur.)**

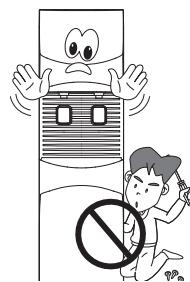


- Do not put candles, lit cigarettes, etc. on the product.

**(There is a danger of a fire.)**

- Do not put a bowl containing water, chemicals, small metals, etc. on the product.

**(If these materials drop into the inside of the product, this may cause an electric shock or fire.)**



- If the product is damaged or malfunctioning, do not disassemble, repair, or remodel it on your own.



- Do not install the unit in or around largely damp areas, at a place near flammable materials, or at a place exposed to rain or snow.

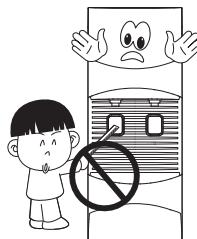
**(There is danger of an electric shock or fire.)**

## 2. Safety precautions



### Danger

Associated with the possibility for serious injury or death.



- Close supervision is required when any appliance is used by or near children.

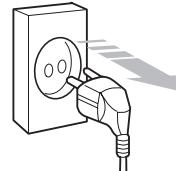


- To disconnect the unit, be sure to pull by the plug and not the cord.  
*(Damage to the power cord can cause an electric shock.)*



- If there is dust, water or etc on the power plug pin, wipe it off well.

*(There is a danger of an electric shock or fire.)*



- Leave the product unplugged, before cleaning the inside of the product.

*(An electric shock or fire may occur.)*

- This unit cannot be used by children and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge.

- Replacement of supply cord is intended to be made by the manufacturer or service agent.

- 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.

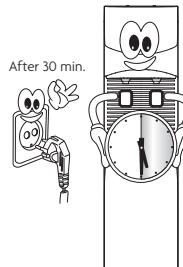
#### \* Symptoms under normal operations

- During use of the unit, some operating sound may occur inside because of the operation of the compressor. And clattering sound may occur during cold water production process.
- Water is drained through brine tube when power is on or water is full. This is the operation for enhancing filter quality by eliminating accumulated contaminant.



## Caution

Associated with the possibility of injury, property damage and reduced performance of product.

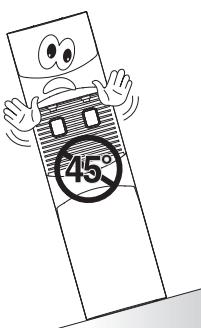


After 30 min.

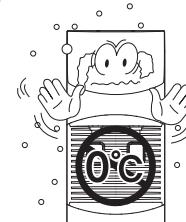
- After transporting the product, do not supply the power for at least 30 minutes to stabilize the product.



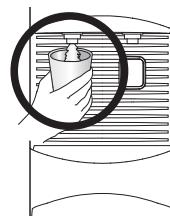
- Do not put any covering on the rear and side of the product. (Blocking ventilation holes may raise inside temperatures and cause system malfunction or even system stoppage.)



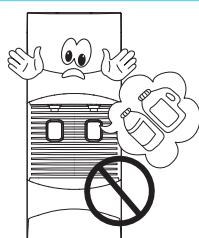
- Do not operate the unit on uneven surface.  
**(This can cause error or malfunctioning.)**
- Do not tilt the product over 45° during transportation.  
**(Severe inclination can performance degradation.)**
- Do not install the product in a sloped or unstable position.  
**(This can cause a reduced performance, system damaging or overall trouble.)**



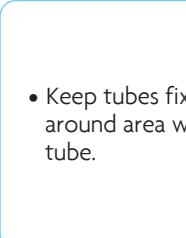
- Do not install the product in a place where the temperature may drop below 32 °F.(0 °C)



- To avoid burns from hot water, use containers such as a cup during hot water dispensing.



- Do not use chemicals (Volatile material, benzene, thinner etc.) to clean the unit and avoid to place them near the unit.

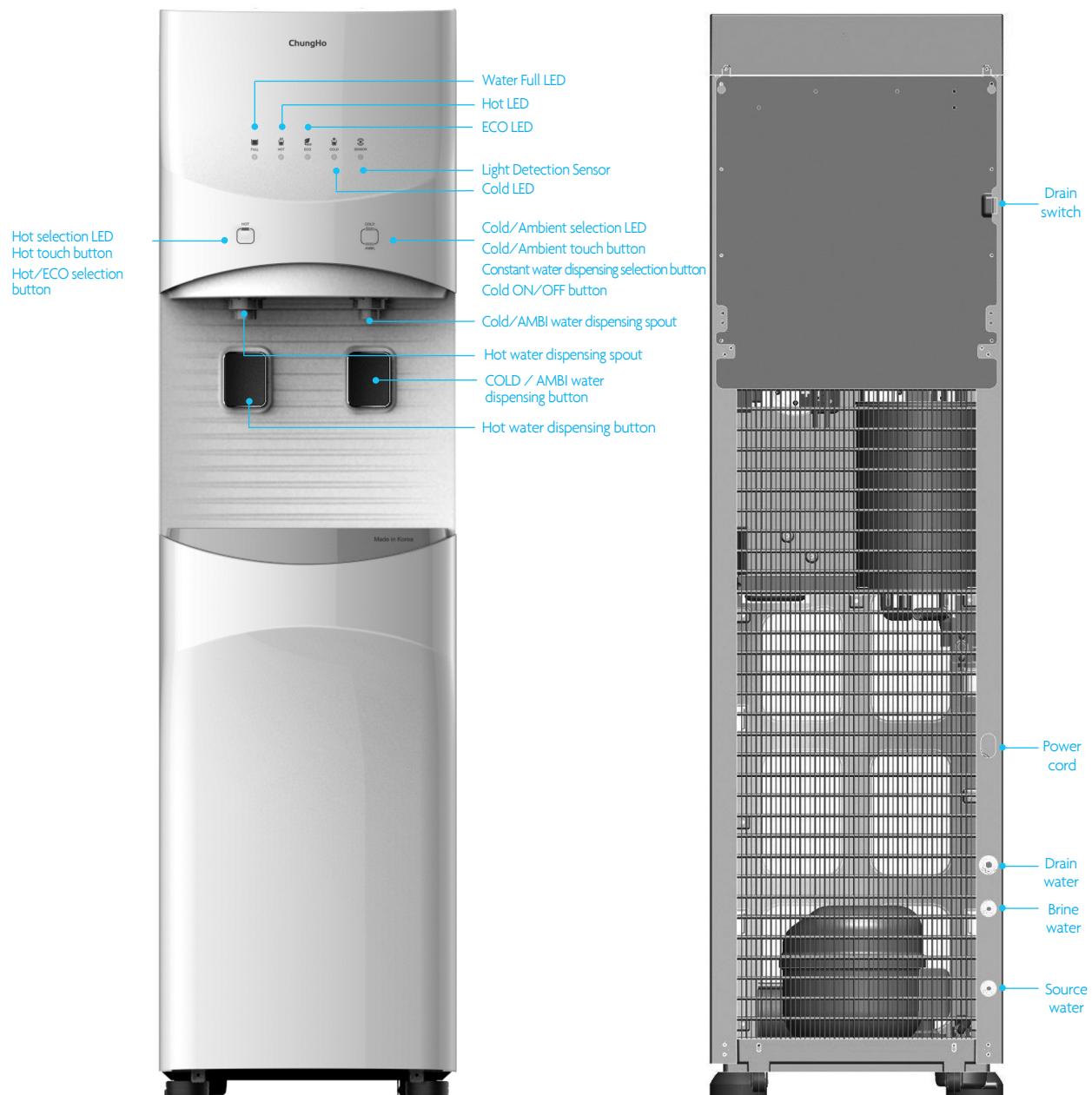


- Keep tubes fixed properly so as not to splash around area with water from brine and drain tube.

- The instructions for appliances connected to the water mains by detachable hose-sets shall state that the new hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.

- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

### 3. Name of each part



## 4. Installation cautions

**1** Do not install the product at the following places.

- Near fire or heater    • Near flammable material    • Wet place
- A place exposed to rain or snow    • A place exposed to direct sunlight
- Near chemicals(volatile material, organic solvent, etc.)
- A place below 32 °F(0 °C) or a place with the possibility of dropping below 32 °F(0 °C).
- A place above 104 °F(40 °C) or a place with the possibility of rising above 104 °F(40 °C).

**2** Use the following water quality range.

- |   |   |
|---|---|
| • Water pressure : 0.5-7 kgf/cm <sup>2</sup> (50~686 kPa) | • Water temperature : 39~100 °F(4~38 °C)          |
| • pH : 5.8-8.5  | • Water hardness : 300 ppm or less                |
| • Turbidity: below 0.5 NTU                                | • Water quality : Biologically safe water quality |

※ When using the water out of range, discuss it with the company. If not, the product can be excluded from the stated warranty.

**3** When transporting the product, do not tilt it over 45° .

※ Severe tilting can cause performance degradation.

**4** Install the product at a place where the surface is flat, and after installation, always adjust the level of the product by using a level gauge.

※ If the product tilts more than 3°, water overflow may occur.

**5** Do not connect hot water over 100 °F(38 °C) to this product.

※ This can cause trouble and decline in ice making performance.

**6** Keep the product approximately 8" (20 cm) away from the wall for proper ventilation.

**7** Do not place any electric heater near the rear of the product.

**8** When connecting tube, ensure that the tube is not bent or pressed down by heavy objects, etc.

※ If tube is bent or pressed, water does not flow well and can cause problems.

**9** Adjust the tube so that brine water may not splash around area.

※ Brine water can easily be used for other purposes, such as bathroom cleaning, house cleaning, laundering, washing, etc. Never use the brine water for drinking or cooking.

**10** The highest point of installed brine tube must be less than 12"(30 cm) away from the flat floor. Total length of brine tube must be less than 118"(3 m). Otherwise, water is not drained well.

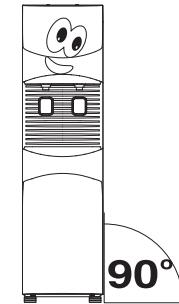
**11** When installing more than one product(water purifier, shower softener, etc.), tubes of source water, brine water need to be independent for one another.

## 5. Installation method

1 Install horizontally.

2 Shut off water supply valve and separate the connector part of tap water in order to connect an adapter(source water valve). Then, connect the adapter.

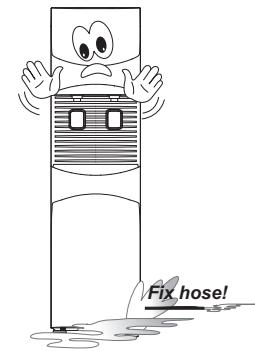
\* If a sealing rubber(packing) is missing or the thread of a screw is damaged, it may occur water leakage.



3 Connect the adapter(source water valve) and a water inlet on the rear of the product with a tube.

4 Connect tube to brine on the back of the product. And then, connect tube to drain hole such as sink, toilet etc..

\* Install the brine water and drain water line separately. If drainage does not function properly due to improper installation, it can cause water overflowing up to the water gutter.



5 Fix the tubes not to splash around areas with water.

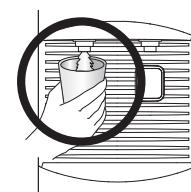
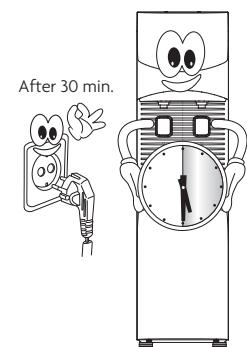
6 After the installation, put O-rings (2EA / included in user's manual) under each of the wheels to prevent rolling over to the other side.

7 Do not plug in the power for 30 minutes in order to stabilize the cooling system and safe use of product.

8 Turn on water supply valve connected to the house and position the adapter (source water valve) "OPEN".

9 Check if water is supplied into the product properly and there are any leakages on every connection.

10 After 70 minutes has passed from supplying the power, check if water is coming out by pressing the water dispensing button.



## 6. Usage



### Display (A)

	Water Full LED	Lights up when storage tank is full of water.(green)
	Hot LED	Lights up when hot water operation is set.(red)
	ECO LED	Lights up when power saving operation is set.(red)
	Cold LED	Lights up when cold water operation is set.(blue)
	Light Detection Sensor	By detecting the lightness around the product (front), it can automatically turn on/off the hot water device. (when the power saving function is set)

### Display and function setting/dispensing selection touch button (B)

	Hot selection LED	Lights up when hot water is selected, and flickers when water is taken.
	Hot touch button	Use when you want to take hot water.
	Hot/ECO selection button	Use to turn hot water operation and power saving function on/off. (After 7 seconds of touching button, hot water operation/power saving setting mode → touch → on / off)
	Cold selection LED	Indicates that cold water intake is selected.(blue)
	Ambient selection LED	Indicates that ambient water intake is selected.(green)
	Cold/Ambient touch button	Use to take cold water/ambient water. when touching the button, cold water/water intake mode is changed.
	Constant water dispensing selection button	Use to select continuous water intake.(for 3 second touch)
	Cold ON/OFF button	Use to turn ON / OFF the cold water function.(for 7 seconds)
	COLD / AMBI water dispensing button Hot water dispensing button	Press the button to Take the water.

## 6. Usage

### Operation beep sound

※ When the button is operated, the following sound appears

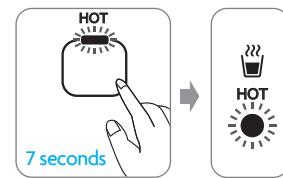
	Division	Beep	Remarks / Occurrence
1	Power On	Ding-Dong-Daeng~	Once
2	Key Input	Ding-	Once
3	Water dispensing start	Ding-	Once
4	Water dispensing end	Dong~	Once
5	Drain / Overflow	Ding-Ding-Ding-Ding~	Every second
6	Continuous water dispensing start	DingDong~	Once
7	Continuous water dispensing end	DingDong-DingDong~	Once

### Function setting and releasing

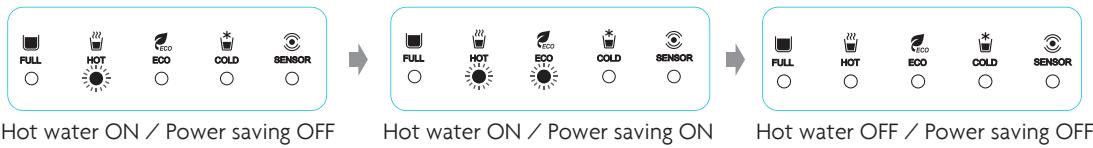
#### (1) Hot to set the hot water operation / power saving function

- ① Touch the Hot touch button lightly for 7 seconds or more.
- ② The sound appears 1 times while entering into the hot water / power saving function setting mode.(While setting, the hot water operation indicator LED Red is on)
 

※ If there is no touch for more than 3 seconds in hot water operation / power saving function selection mode, It goes out of the operation / power saving function setting mode and operates in the set mode.



- ③ Every time you touch the Hot touch button in the hot water operation / power saving function setting mode, the three modes shown below are repeatedly selected.



Hot water ON / Power saving OFF      Hot water ON / Power saving ON      Hot water OFF / Power saving OFF

※ When the function is set, the corresponding LED is turned on and off when it is off.

※ There are three hot water operation / power saving function setting modes, (Hot water on / Power saving off, Hot water on / Power saving on, Hot water off / Power saving off) the option is repeatedly selected in order

※ The brightness of the front display LED decreases when the surrounding brightness around the product becomes dark during the power saving mode.

#### Power saving mode?

When the hot water function is set, the light sensor activates according to the brightness of the product

and automatically turns the hot water device on / off.

If the electric lamp is turned off to darken the surroundings of the product, it is determined that the hot water is not used, to reduce power consumption.

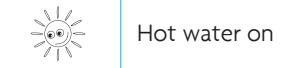
When the area around the product becomes bright, the hot water system will start automatically regardless of the power saving function.

#### Precautions when using the power saving function

When the power saving function is selected, the hot water system automatically turns on / off according to the brightness around the product. As a result, you will not be able to use hot water immediately. Please do not use the power saving function in order to always use hot water regardless of the surrounding brightness.



Hot water off

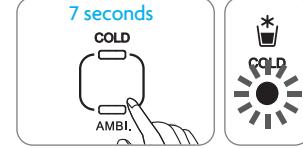


Hot water on

Automatic setting of hot water operation according to surrounding brightness

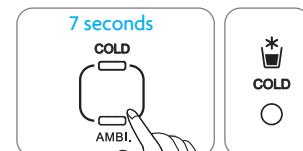
## (2) Cold water operation setting

- ① If you touch the Cold/Ambient touch button for more than 7 seconds, the sound appears ding~ ding~ and the cold water is set.  
(Cold water operation is set, Cold LED light on Blue.)
- ※ Touch the button for more than 7 seconds without interruption even if the sound occurs 3 seconds after the touch starts.(If you stop touching after 3 seconds, it enters into the continuous dispensing mode.)



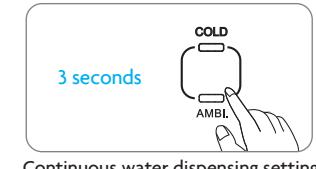
## (3) Cold water operation releasing

- ① Touch the Cold/Ambient touch button for more than 7 seconds.
- ② The cold water function is canceled while the sound is ding.  
(Cold water operation is released, LED is turned off.)
- ※ When the cold water function is canceled, the water in the cold water tank can be dispensed. But the cold water function does not work.
- ※ Touch the button for more than 7 seconds without interruption even if the sound occurs 3 seconds after the touch starts. (If you stop touching after 3 seconds, it enters into the continuous dispensing mode.)

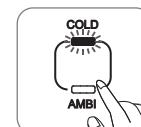


## (4) Constant water dispensing setting

- ① If you touch the Cold/Ambient touch button for 3 seconds, it enters into the continuous dispensing mode.
- ② In continuous dispensing mode, press Cold/Ambient touch button to select cold water / ambient water. (Corresponding LED is on when selected.)
- ※ If you do not take water even if you select continuous water mode, the selection is automatically released after 10 seconds.
- ※ Hot water can not be taken continuously.
- ※ The continuous dispensing time of a cold water/ambient water is 32 to 34 seconds to take about 1.5 l .(There might be a difference in a dispensing amount depending on the water level in the water tank.)
- ※ Hot water can be taken simultaneously during the continuous mode.



Continuous water dispensing setting



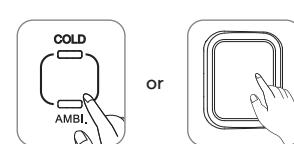
Continuous cold water dispensing



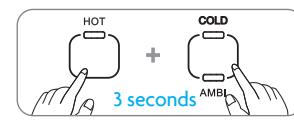
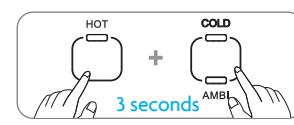
Continuous ambient water dispensing

## (5) Constant water dispensing releasing

When Cold/Ambient touch button or dispensing button is pressed in the continuous dispensing mode, the sound rings ~ Ding dong ~ and the continuous mode will be released.  
(Cold LED is turned on blue when contact water dispensing is released.)

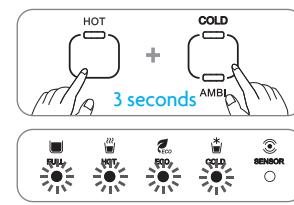


or



## (6) Beep sound releasing

- ① If you touch the Hot touch button and the Cold/Ambient touch button at the same time for more than 3 seconds, the sound will be released.
- ② When you release the sound function, the sound rings 'ding ~ ding ~ ding ~ ding ~ ding ~'.
- ③ When the power is turned off, Water Full LED / Hot LED / ECO LED / Cold LED will blink 5 times at 1 second intervals.



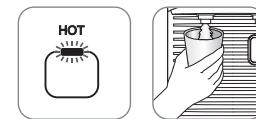
## 6. Usage

### Water dispensing method

#### (1) How to dispense the hot water

When the Hot touch button is touched, the hot water selection LED is turned on and when the water dispensing button is pressed in this state, hot water is dispensed. The Hot selection LED flashes while hot water is being taken.

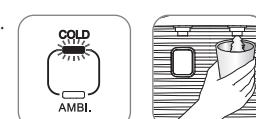
**When taking the hot water, be careful not to get burned by the hot water.**



#### (2) How to dispense the cold water

When you touch the Cold/Ambient touch button, the cold water selection LED lights up. At this time, cold water is dispensed by pressing the dispensing button.

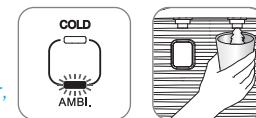
**\* Generally, cold water is selected by default.**



#### (3) How to dispense the ambient water

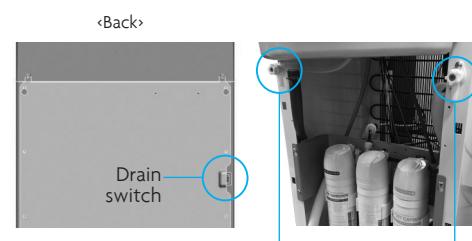
When you touch the Cold/Ambient touch button, the water dispensing selection LED lights up. At this time, press to dispense the ambient water.

**\* If you do not use the water for a certain period of time after selecting an ambient water, the cold water is selected by the default mode.**



### How to drain

- ① Perform with the power plug plugged in.
- ② Turn on the drain switch on the top of the product backside.
- ③ Remove two screws on the bottom of the product front cover with the screwdriver. After releasing it, push the bottom cover from top to bottom and pull it forward.
- ④ After removing the bottom cover, open the drain valve located on the left (Hot/Ambient water) and the right (Cold water) and drain the water inside the tank completely.



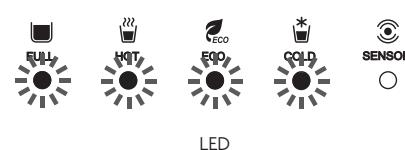
**\* When the drain switch is turned on, all functions except for water intake are stopped.**

### Smart cleaning function

Empty the inside of the cold water tank automatically at the time of low frequency every day. It is a smart pollution prevention function that replenishes the water.

- 60 hours after the power connection is the standard time and this function operates at the same time every day.

Ex) When power is connected at 2pm, it operates at 2am in 1 day cycle.  
For the operation time change, please turn the power off and on after 12 hours of the desired time.



- ① During Smart cleaning function, Water Full LED / Hot LED / ECO LED / Cold LED flashes for 7 minutes. At this time, You can not use the product.

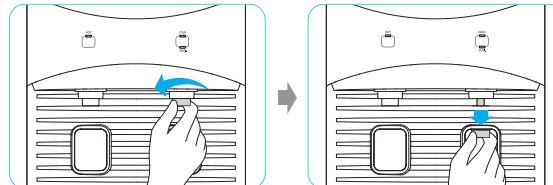
## 7. Cautions during use

- ① Refer to the voltage on the front page. Connect to the proper power source.
- ② Keep the cord out of heavy traffic areas.  
*(This can lead to overheating the outlet.)*
- ③ Never move the product while in operation.  
*(This can cause a malfunction.)*
- ④ Do not install the unit in a place where the temperature may drop below 32 °F(0 °C).
- ⑤ Do not touch the wire condenser on the rear side of unit. It is hot while the unit is in operation.
- ⑥ To avoid burns from hot water, use containers such as a cup during hot water dispensing.
- ⑦ Avoid the use of chemicals around the unit(volatile material, organic solvent, etc.) and do not place chemicals near the unit.
- ⑧ In case, water is not served, check if source water can be cut or the machine is malfunctioning.  
*(In case of water cut-off, plugging out the power cord is recommended.)*
- ⑨ Leave the unit unplugged, before cleaning the inside of the unit.  
*(An electric shock or fire may occur.)*
- ⑩ If the unit does not respond to the touch buttons, broaden the contact area where the touch button is pressed.
- ⑪ In case the unit is not used for long period of time (More than 4 days), shut off the adapter(Source water valve) and pull out the power plug. Do not touch the power plug with wet hands.  
*(Fire or electric shock may occur.)*
- ⑫ When operating the cold&hot water, the time which can reach a set temperature might be different depending on the surrounding circumstance.  
*(Temperature, humidity, raw water)*
- ⑬ The water purifier filter is required to be replaced regularly in accordance with the replacement period so that you can drink the fresh water all the time.  
*(If the filter exceed the life-span, it might cause lowering the water purifier function.)*
- ⑭ The portion between purified water and removed water is 1:2. Brine water can be used for other purposes, such as bathroom cleaning, house cleaning, laundering, washing etc.  
*(Do not use brine water for drinking or cooking.)*
- ⑮ Use the unit in a place which is 1 meter away from the product that generates the 1 W electric wave.
- ⑯ Disconnect the power plug and lock the source water valve if the abnormal sound, smell and smoke occur, and then contact our distributor.

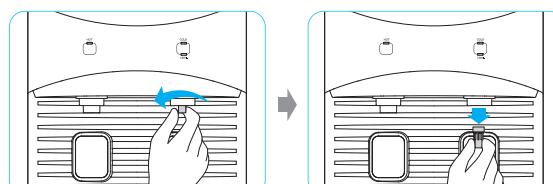
## 8. Cleaning

### Water dispensing spout

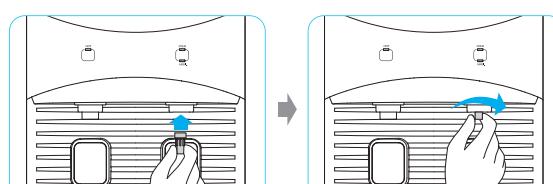
- ① Rotate COLD/AMBI water faucet deco to remove it from the body.



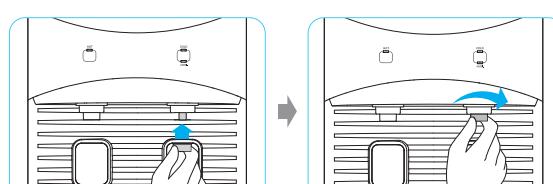
- ② Rotate the inside-detachable water faucet deco to remove it from the body.



- ③ After the inside-detachable water faucet cleaning, replace the detachable water faucet back by turning to the right .

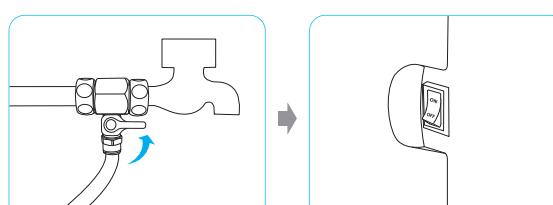


- ④ Replace it back by turning to the right.

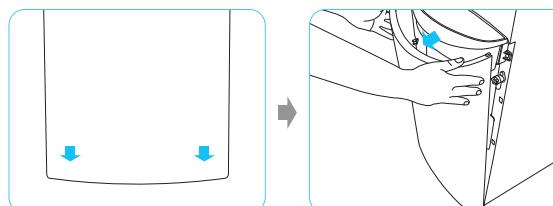


### Water tank

- ① Shut off the source water valve and turn the drain switch on the rear of unit ON.



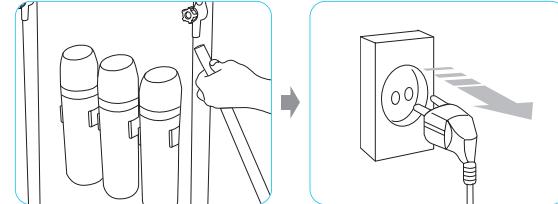
- ② Loosen screws(2ea) beneath of the lower front cover and separate the lower front cover.



③ Empty water tank completely by drain valve.

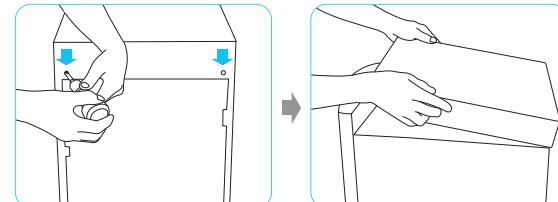
Left side : Ambient and hot water

Right side : Cold water

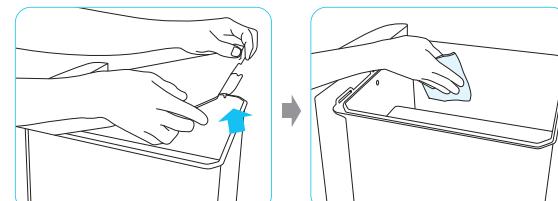


④ Plug out.

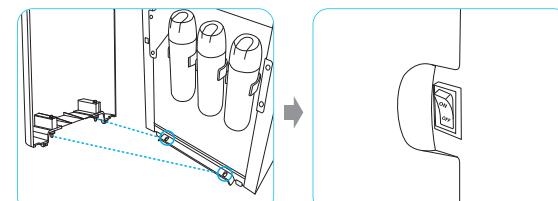
⑤ Detach top cover after loosening the fixed screws(2ea) on the rear of the unit.



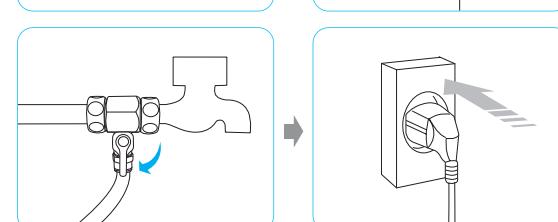
⑥ Clean up the water tank and wash with soft cloth or dried sanitary wipe. And then assemble in a reverse way.



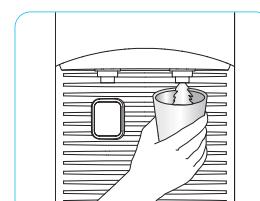
⑦ Insert the lower front cover properly and then assemble in a reverse way.



⑨ Open source water valve.



⑩ Plug in.



⑪ Check if cold and ambient water are served after 70 minutes.

(Water temperature: Based on 25 °C)

⑫ Drain the newly purified water completely and use it.

#### Check Point

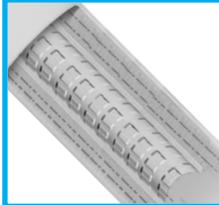
- ※ Wash your hands first and put on sanitary gloves. Clean up the tank with soft cloth or dried sanitary wipe.
- ※ Do not use chemicals or detergent.
- ※ Discard used sanitary wipe, sanitary gloves etc after cleaning.
- ※ Make sure that tank cover is closed and air filter is installed properly.
- ※ Clean up the tank once a month.

## 9. Maintenance

Section		Details
Installation	Location	<ul style="list-style-type: none"> <li>- The unit can be installed within recommended water quality range. (Water pressure : 0.5-7 kgf/cm<sup>2</sup> (50-686 kPa))</li> </ul>
	Environment	<ul style="list-style-type: none"> <li>&lt;Do not install the unit in places below.&gt;</li> <li>- A place exposed to direct sunlight.</li> <li>- Nearby toilet.</li> <li>- In front of cooling or heating device.</li> </ul>
Water purifier use	Water dispensing spout	<ul style="list-style-type: none"> <li>- Recommend to clean up water dispensing spout once a week.</li> <li>- If foreign substance splashes onto water dispensing spout, wipe it off right away.</li> </ul>
		<ul style="list-style-type: none"> <li>- Do not touch water dispensing spout with hand or mouth and used cup.</li> </ul>
	Drip tray	<ul style="list-style-type: none"> <li>- Do not throw away any liquid except water.</li> </ul>
		<ul style="list-style-type: none"> <li>- If there is the water, throw it away and clean up once a week.</li> </ul>
Checkup	Self maintenance	<ul style="list-style-type: none"> <li>- Clean up water dispensing spout and water gutter on regular basis.</li> </ul>
Maintenance	Filter replacement	<ul style="list-style-type: none"> <li>- 5 minutes of flushing is necessary. If not, carbon powder can be found in water tank.</li> </ul>
		<ul style="list-style-type: none"> <li>- Do not allow external shock to the filter.</li> </ul>
Prevention of scale build-up	Unit with ACS	<ul style="list-style-type: none"> <li>- The unit totally drains all water in the tank once everyday. It can prevent the scale build-up.</li> </ul>
	Unit without ACS	<ul style="list-style-type: none"> <li>- In case the unit is not used for long of period time more than 4 days, empty water in the tank completely to let new water come in and empty water again to take fresh water.</li> <li>- Empty water tank every month and clean up with soft cloth or dry cleaner.</li> <li>- Regular cleaning is necessary to prevent scale build-up.</li> </ul>

## 10. Filters

### Filter function



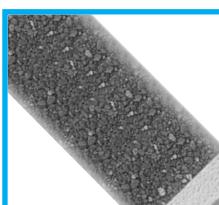
**T-Pre-rs-carbon filter**

The carbon composite filter effectively removes the rust particle and suspended solid. It uses the 3-stage filtration method maintaining the effectiveness of standard sediment while extending the filter replacement cycle. At the same time, it eliminates effectively the dissolved particle in water such as the chorine component, trihalomethanes (THMs), and organic chemicals.



**T-Membrane filter**

It removes dissolved pollutants.(a molecular weight over 200, such as heavy metals, bacteria and organic chemical contaminants) through RO filtration using a semi-permeable membrane(0.0001 $\mu\text{m}$  pore size, 1/1,000,000 of hair) and the dissolved pollutants are discharged through brine tube.



**T-Post-carbon filter**

It removes dissolved gases and odors to improve water taste.

### Filter service life

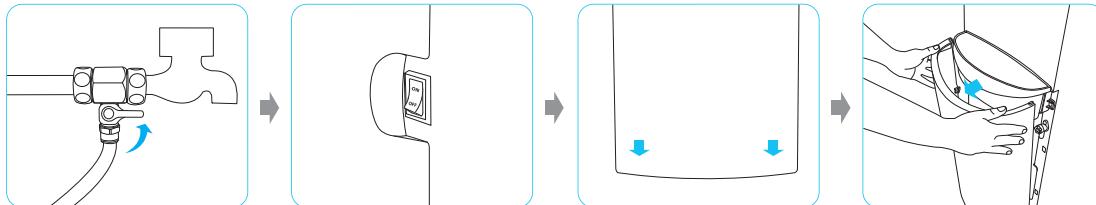
Filter	Replacement cycle
T-Pre-rs-carbon filter	6 months
T-Membrane filter	24 months
T-Post-carbon filter	18 months

※ Filter service life is varied depending on environment such as location, water conditions(quality, temperature), amount of water used and seasons(summer, winter).

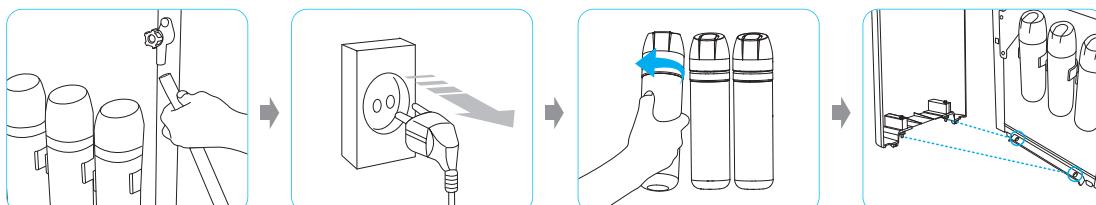
※ You can take clean water by replacing filters according to the recommended filter service life.

## 11. How to replace filters

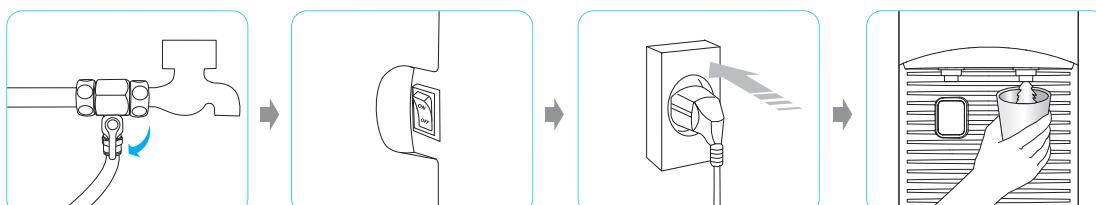
- ① Shut off the source water valve and turn the drain switch on the rear of unit ON.
- ② Loosen screws (2ea) beneath of the lower front panel and separate the lower front panel.



- ③ Empty water tank completely by drain valve.  
Left side: Ambient and hot water  
Right side: Cold water
- ④ Plug out.
- ⑤ Lift the filter and turn to the left and pull it off. Turn the filter to the right side to make straight line (i) on replacement filter and filter head.
- ⑥ Insert the lower front panel properly and then assemble in a reverse way.



- ⑦ Open source water valve.
- ⑧ Turn the drain switch OFF on the rear of the unit.
- ⑨ Plug in.
- ⑩ Check if cold / ambient water are served after 70 minutes. (Water temperature: Based on 25 °C)



※ Check for water leakage. If it is found, turn off the unit and shut down source water valve.  
※ 5 minutes of flushing is necessary before filter replacement.

## 12. Specification

Product name	ChungHo Water Purifier NEW DIGITAL	
Model name	CHP-4010S	
Net weight	71.6 Lbs(32.5 kg)	
Rated voltage	Refer to the front page	
Power consumption	Max	700 W
	Cold water	0.75 A
	Hot water	600 W
Reservoir capacity	Cold water	1.19 Gal. (4.5ℓ)
	Hot water	0.89 Gal. (3.4ℓ)
	Ambient water	2.93 Gal. (11.1ℓ)
External dimension	14.2 Wx17.5 Dx52.3 H(inch)(360 Wx444 Dx1,328 H(mm))	
Compressor	Reciprocating type	
Heat radiation type	WireCondenser(Forced convection)	
Cold water temperature regulation	Thermistor	
Hot water temperature regulation	Bimetal(Automatic return)	
Overheating prevention system	Bimetal(Manual return)	
Safety system	Overheating prevention system, Water level detecting system	
Weather class	N class( $90^{\circ}\text{F} \pm 1^{\circ}\text{F}$ ) ( $32^{\circ}\text{C} \pm 1^{\circ}\text{C}$ )	
Power cord	71 inch(1.8 m)	
IP class	IPX1	
Place of installation	Indoor, House, Office, Store	

※ "N class" indicates temperate climate.

※ IP class stands for "international protection" against water.

※ Power consumption can be different depending on environment.

## 13. Troubleshooting

Symptom	Check point	No	Yes
When the display is not turned on and not operated.	Is the power plug inserted properly?	Insert the power plug into wall outlet properly. Request follow-up service when you still have problem as the power plug is inserted properly.	
When ambient water is not served.	Is tap water being supplied?	Wait until the tap water works as the unit unplugged. Request follow up service.	
When cold water is not served.	Is the Water Full LED on?	Wait for the Water Full LED to turn on. Request follow-up service if the LED does not turn on or the cold water does not dispense after 2 hours. Request follow up service.	
When cold water is not cold enough (When taking cold water)	Is the cold water operation LED on?	Press the Cold/Ambient touch button for 7 seconds to turn on the cold water operation LED. Request follow-up service if the water does not cool down after 2 hours.	
When hot water is not served.	Is the Water Full LED on?	Request follow-up service if the LED does not turn on or the hot water does not dispense after 2 hours Request follow up service.	
When hot water is not hot enough (When taking hot water)	Is the hot water operation LED on?	Press the Hot touch button for 7 seconds to turn on the hot water operation LED. Request follow-up service if the water does not heat up after 30 minutes.	
How to maintain a silicon tube?	When a silicon tube is contaminated by using for an extended period of time, request follow up service.		

## MEMO



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