



ChungHo Malaysia, 10TH FL, FABER IMPERIAL COURT, JALAN SULTAN ISMAIL, 50250 KUALA LUMPUR, MALAYSIA  
TEL: +60-32-603-1800 / 1800-886677 / E-MAIL: [info@chunghomy.com.my](mailto:info@chunghomy.com.my) / HOMPAGE: [www.chunghomy.com.my](http://www.chunghomy.com.my)  
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## ChungHo Ice Water Purifier NEW 700

User's manual

### CHP-5380S2

- \* 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 Ice Water Purifier NEW 700.

The 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 shock, moisture, 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 unit read this user's manual in detail and please keep it for your future reference.**

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# 1. Unit features

## 1 Water purification system providing an integrated ice making function (Compact ice making system)

ChungHo Ice Water Purifier NEW 700 is an innovative hybrid of a reverse osmosis water purification system with an ice maker. It is designed not only for a user convenience, but also for a system efficiency which is intended to obtain cold water as a result of making ice. Hot, cold, ambient, and ice are all in one.

(Patent application: No. 2008-57943, 2005-99663, 2005-365293, 200510127096.9, 11/342, 117)

## 2 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)

## 3 Pure ice

Because pure water freezes most quickly, ChungHo Ice Water Purifier NEW 700, a water purifier and ice maker using pure water purified by its own water purification system, creates pure ice only.

## 4 Automatic ice dispensing

Touches the ice dispensing touch button gently and allows the spiral to spin by the motor. Ice will be automatically dispensed from the ice tank.

## 5 Convenient filter replacement

Its filters are so light that users can replace them easily and conveniently.

## 6 Touch sensors in selection buttons

This sophisticated appliance adopts touch buttons instead of push buttons to help users enjoy convenient and one-touch operation.

## 7 Water level detection sensor

The water level detection sensor specially developed to detect capacitance level more stably than the existing mechanical ones not only assures safer and higher detection accuracy but also minimizes malfunction caused by foreign substances. The detected signals will be sent to the controller and automatically control the water purification system.

## 8 Automation by sensors and Micom

The sensors for detecting ambient temperature, temperature for making ice, temperature of cold water, and ice existing in the system help Micom automatically control ice making, ice removing, and water cooling and maintain the unit in optimal condition.

## 9 One water purifier for 5 different drinks (warm, ambient, cold, hot water and ice)

This all-in-one water purifier improves user convenience and allows users to enjoy ice and water with 4 different temperature (warm, hot, cold, and ambient) more easily and conveniently

## 10 Locks (locks for ice making and hot water dispensing systems)

The special locks prevent ice and hot water from being dispensed by deactivating buttons and protect children and the elderly from burns.

## 11 Display of abnormal occurrence and reinforced safety function

The safety features of the unit have been enhanced in order to prevent various problems from occurring. The system will inform the user(s) of abnormal occurrences through a flashing display LED and by automatically stopping the ice making function and water purification function when an abnormality in the system is detected.

# 1. Unit features

## 12 ECO function

Turning on the ECO function allows the light detection sensor to detect light density around the unit, turn on/off the hot water system in accordance with light density, and reduce energy consumption.

## 13 Electronic water dispensing method

Users can enjoy ambient, cold, or hot water easily and conveniently by pushing the water dispensing button with containers such as a cup. It improves user convenience by automatically selecting the cold water button, the most frequently selected button.

## 14 Operation beep sound

When users set functions and start water dispensing, a beep sound (Ding~, Dingdong~, etc.) informs them the settings and options they selected and improves user convenience.

## 15 Default function

The cold water dispensing mode, the most frequently used mode of all, is automatically selected. If hot water or ambient water is selected and it is not used for a given time (Ambient : 10 seconds, Hot : 5 seconds), the system will automatically switch into cold water dispensing mode. (Default function)

## 16 Automatic filter cleaning system

The automatic cleaning system removes contaminant accumulated in the filter and keeps it in the optimal conditions.

## 2. Safety precautions

※ Cautions are divided into 2 categories : 'Danger' and 'Caution'



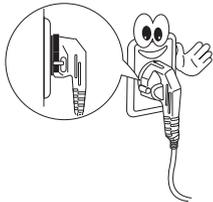
### Danger

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.)
- Use a power strip offering 10A or more for the unit only.



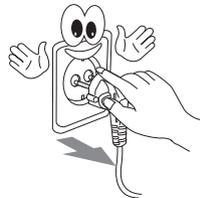
- Insert the plug to the outlet firmly to avoid loosening.  
(Unstable connection may cause a fire.)



- Do not bend the power cord excessively or put heavy objects over the power cord.  
(An electric shock or fire may occur.)



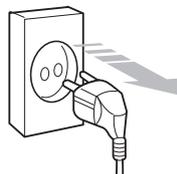
- After installation, arrange the power cord so that it will not be stepped on or stepped over.



- 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 unit unplugged, before cleaning the inside of the unit.  
(An electric shock or fire may occur.)

## 2. Safety precautions



### Danger

Associated with the possibility for serious injury or death.



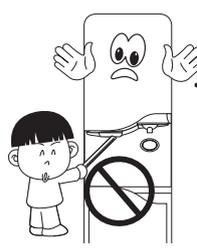
- If the unit is damaged or malfunctioning, do not disassemble, repair, or remodel it on your own.



- 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 a danger of an electric shock or fire.)



- Do not put candles, lit cigarettes, etc. on the unit. (There is a danger of a fire.)
- Do not put a bowl containing water, chemicals, small metals, etc. on the unit. (If these materials drop into the inside of the unit, this may cause an electric shock or fire.)

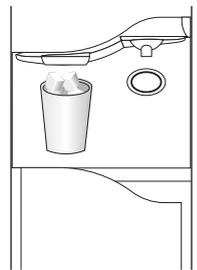


- Do not allow children to use any appliance. (Never leave any appliance unattended.)
- Persons, including children, who in view of the level of their physical, sensory or mental capacities, or their lack of experience or knowledge, are not in a position to use the equipment with safety and may not use the equipment without supervision or instruction from a responsible person.



### Caution

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



- When taking ice, place a container close to the ice dispensing hole not to drop ice on the floor. (Be careful in order not to allow containers such as cups, etc. to be inserted into the inside of ice dispensing hole.)



- When taking ice, avoid using a glass cup and avoid taking ice with cup filled with beverage, coffee etc. (A glass cup can be broken by abrupt temperature change or the ice strike. Beverage and coffee can splash into ice dispensing hole and it can cause mold.)



- Do not put foreign materials into the ice dispensing hole or block the dispensing hole. (This can cause system malfunction.)



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

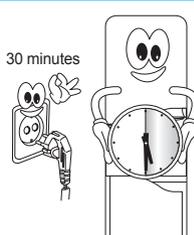


## Caution

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



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



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



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



- Blocking ventilation holes may raise inside temperatures and cause system malfunction or even system stoppage.

- Do not install the unit in a place where the temperature may drop below 32°F.(0 °C)
- For repairs or any technical help, please contact our customer support team.

- Replacement of supply cord is intended to be made by the manufacturer or service agent.
- Children should be supervised to ensure that they do not play with the appliance.

- 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.

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

### Symptoms under normal operations

1. During use of the unit, a murmuring water-flow sound, a clattering ice dropping sound, etc. may occur during cold water making process or ice making process.
2. Opaque ice may occasionally be served, but there is no abnormality in unit performance or ice quality.
3. TDSs (Total Dissolved Solids) found in ambient water, cold water, and ice may vary from one another. (This is a result of the freezing point method.)
4. After the system power source is interrupted and then again restarted, irregular ice may temporarily be served.
5. When the unit is energized or reactivated, the filter washing water will be drained through the brine tube. This is for cleaning the filter and one of the symptoms under normal operation.

# 3. Installation cautions

1 Do not install the unit at the following places.

- Near fire or heater
- Near flammable material
- Wet place
- In front of cooling or heating device.
- A place exposed to rain or snow
- A place exposed to direct sunlight
- Near chemicals (volatile material, organic solvent, etc.)
- Nearby toilet
- A place below 32 °F(0 °C) or a place with the possibility of dropping below 32 °F(0 °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
  - Evaporated residue : 500 ppm or less
  - Water quality : Biologically safe water quality
- ※ When using the water out of range, discuss it with the company.  
※ If not, the unit can be excluded from the stated warranty.

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

- ※ Severe tilting can cause performance degradation.

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

- ※ Avoid tilting the unit at an angle equal to or greater than 3 degree or water may overflow.

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

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

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

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

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 tubes so that brine water and drain water may not splash around area.

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

10 The height of installed drain tube and brine tube must be higher than the flat floor on which the unit is installed. Total length of drain tube and brine tube must be less than 118"(3 m). Otherwise, water is not drained well. If the brine water tube installed to the drain touches the floor inevitably, do not raise the tube off the floor too high (not higher than 12"(30cm) from the floor).

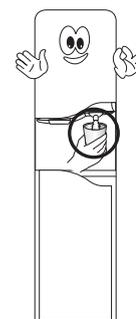
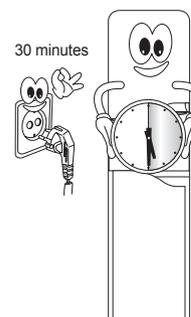
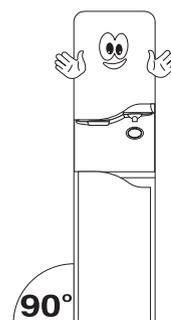
- ※ In the event that an additional drain pump is necessary, please contact our customer support.  
※ Check that the tubes for source water and brine water are correctly installed.

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

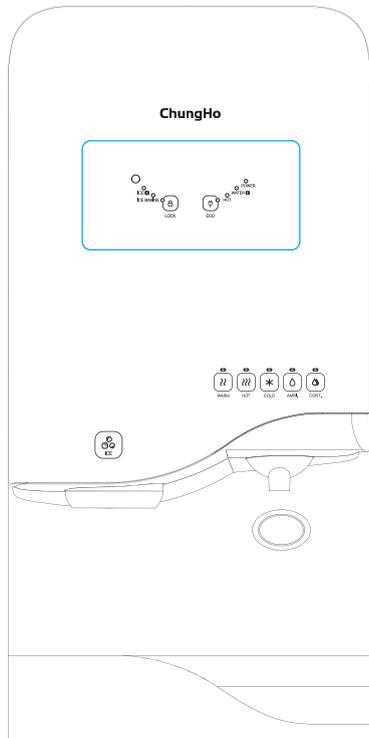
# 4. Installation method

• Our technicians will install the unit. Please check that the unit is installed correctly

- 1 Install horizontally. (If the floor is not perfectly horizontal, adjust the unit by using a block, etc. Check its horizontality by using a level gauge.)
- 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 unit with a tube.
- 4 Connect tube to drain and brine on the back of the unit. And then, connect tubes to drain hole such as sink, toilet etc..
- 5 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.
- 6 Do not plug in the power for 30 minutes in order to stabilize the cooling system and safe use of unit.  
※ This unit is for AC 220V/60Hz only.
- 7 Turn on water supply valve connected to the house and position the adapter (source water valve) "OPEN".
- 8 Check if water is supplied into the unit properly and there are any leakages on every connection.
- 9 After 1 hour has passed from supplying the power, check if water is coming out by pressing the water dispensing button.
- 10 Start using the unit after confirming the light on the "water full lamp" and emptying the water in the unit.



# 5. Operation



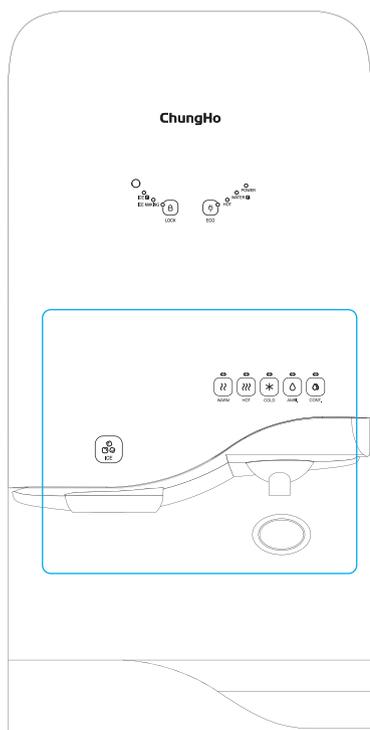
## Display and function settings

	Light detection sensor	Detects a light density around the unit. Hot water system is automatically ON/OFF in accordance with light density. (This function is valid only when "ECO" is on.)
	ICE FULL LED	Lights up when ice storage is full. (White)
	ICE LED	Lights up when "ICE" is set. (White)
	HOT WATER, ICE LOCK	Press to lock/unlock hot water and ice.
	LOCK LED	Lights up when "LOCK" is set. (White)
	ECO Setting	Press to select ECO setting options.
	ECO LED	Lights up when "ECO" is set. (White)
	HOT LED	Lights up when "HOT" is set. (White)
	WATER FULL LED	Lights up when ambient water tank is full. (White)
	POWER LED	Lights up when the unit is plugged in. (White)



## Function setting buttons

	HOT ON/OFF	Push the upper or lower part of the switch to turn on/off the hot water system.
	ICE ON/OFF	Push the upper or lower part of the switch to turn on/off the ice making system.



## Water dispensing selection

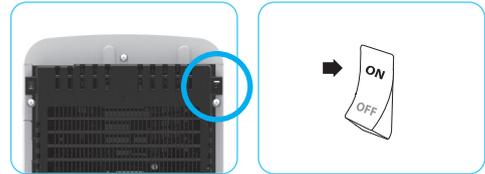
 WARM	WARM	Used to take warm water. (Orange)
 HOT	HOT	Used to take hot water. (Red)
 COLD	COLD	Used to take cold water. (Blue)
 AMBI.	AMBI	Used to take ambient water. (Yellow-green)
 CONT.	CONT.	Used to select "CONT". (White)
 ICE	ICE (ICE DISPENSER)	Used to take ice.
	WATER DISPENSING BUTTON	Used to take water into a container such as a cup

# 5. Operation

## Function setting and releasing

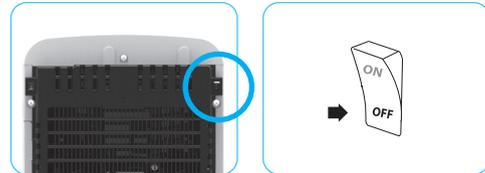
### • Ice-making function setting

- ① Turn the “ICE ON/OFF” switch on the rear side of the unit to the “ON” position
- ② “ICE” LED (white) is turned on and ice making function is set. (Setting sound : Ding~ Ding~ Ding~)



### • Ice-making function releasing

- ① Turn the “ICE ON/OFF” switch on the rear side of the unit to the “OFF” position.
- ② “ICE” LED (white) is turned off and the ice making function is released. (Releasing sound : Ding~Ding~Ding~)  
※ After the ice-making function is released, ice is served until the ice storage is empty while the function is disabled.



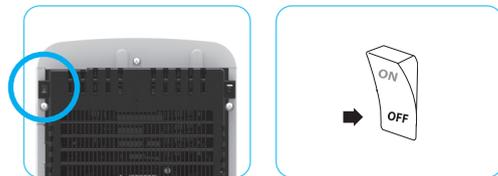
### • Hot water function setting

- ① Turn the “HOT ON/OFF” switch on the rear side of the unit to the “ON” position.
- ② “HOT” LED (white) is turned on and hot water function is set. (Setting sound : Ding~ Ding~ Ding~)



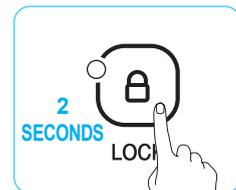
### • Hot water function releasing

- ① Turn the “HOT ON/OFF” switch on the rear side of the unit to the “OFF” position.
- ② “HOT” LED (white) is turned on and hot water function is released. (Releasing sound : Ding~ Ding~ Ding~)



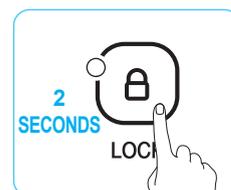
### • Lock Function (Ice/Hot water locking function) Setting

- ① Press “LOCK” touch button softly for over 2 seconds.
- ② “LOCK” LED (white) is turned on and lock function is set. (Setting sound : Ding~Ding~Ding~)
- ③ The hot water, warm water, and ice dispensing buttons do not work after the lock function is set.  
※ “LOCK” is designed to avoid any accidental burns by hot/warm water due to carelessness.



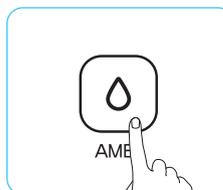
## • Lock Function (Ice/Hot water locking function) Releasing

- ① Press “LOCK” touch button softly for over 2 seconds.
- ② “LOCK” LED (white) is turned off and the lock function is released.  
(Releasing sound : Ding~Ding~Ding~)
- ③ The hot water, warm water, and ice dispensing buttons does work when the setting of lock function is released.



## • Constant water function setting

- ① Press “AMBI/COLD” to take ambient/cold water.
- ② Constant water dispensing starts after “CONT” and “WATER DISPENSING BUTTON” are pressed.  
(Setting sound : DingDong~)  
(Both “AMBI” or “COLD” LED and “CONT” LED are blinking during constant water dispensing.)



- ※ Constant water is set, no water is taken, the function is released after 10 seconds automatically.
- ※ Only ambient and cold water is served as constant water function.

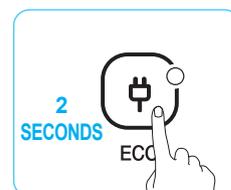
## • Constant water function releasing

During constant water dispensing, one of the buttons between “CONT” and “WATER DISPENSING BUTTON” is pressed, the function is released.



## • Power saving function setting

- ① Press “ECO” for 2 seconds.
- ② Press the button until “ECO” LED (white) is turned on.
  - ※ While operating hot water, light detection sensor reacts to the light density (CDS sensor) and it controls heater operation. When it is dark, it sends a signal of stopping operation to the heater. This function is very useful for an empty office after business hour, closed restaurant and night at home. If it gets bright around the units (Light is turned on), hot water operation sets back into motion automatically.

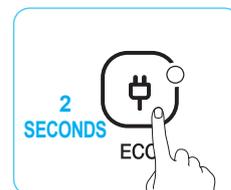


## • Power saving function releasing

- ① Press “ECO” for 2 seconds.
- ② Press the button until “ECO” LED is turned off.

### • Cautions for use of power saving function

If power saving function is selected, the hot water system is automatically turned on/off according to brightness around the unit. So, hot water cannot be immediately served after it becomes bright again around the unit.  
Therefore, do not use the power saving function in order to use hot water all the time.



# 5. Operation

## Function setting and releasing

### • Beep function releasing

- ① Press “ECO” and “COLD” simultaneously for 3 seconds.
- ② Beep sound is released. (Releasing sound: Ding~Ding~Ding~Ding~Ding)



### • Beep function resetting

- ① Press “ECO” and “COLD” simultaneously for 3 seconds.
- ② Beep sound is set. (Setting sound: Ding~Ding~Ding~Ding~Ding)

## Ice and water dispensing method

### • Ice dispensing mode

If “ICE”(ice dispenser) touch button is pressed, the door of the ice storage is opened and ice is served from the dispensing hole.



### • Warm water dispensing mode

If “WARM”(warm water selection) touch button is selected and the water dispensing button is pressed, warm water is served.

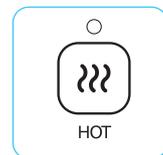
- ※ If warm water is selected and it is not used for 5 seconds, the system will automatically switch into “COLD”. (Default function)



### • Hot water dispensing mode

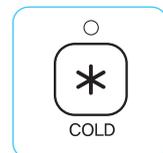
If “HOT (hot water selection)” touch button is selected and the water dispensing button is pressed, hot water is served.

- ※ If “LOCK” function (Ice and hot water dispensing lock) is set, hot/warm water is not served. Use it after releasing the lock function.
- ※ If hot water operation LED is turned off, hot/warm water is not served as the heater does not work.
- ※ If hot water is selected and it is not used for 5 seconds, the system will automatically switch into “COLD”. (Default function)



### • Cold water dispensing mode

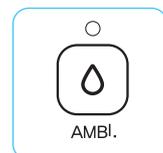
If “COLD (cold water selection)” touch button is selected and water dispensing button is pressed, cold water is served.



### • Ambient water dispensing mode

If “AMBI (ambient water selection)” touch button is selected and water dispensing button is pressed, ambient water is served.

- ※ If ambient water is selected and it is not used for 10 seconds, the system will automatically switch into “COLD”. (Default function)



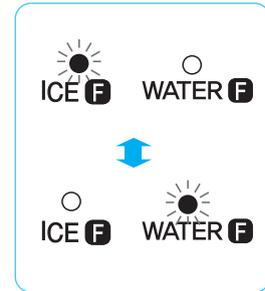
## ACS smart cleaning function

It is the smart cleaning function that prevents contamination by automatically emptying when frequency of use is low refilling the water tank with clean water.

- It operates same time every day, as it is set the standard time which is 12 hours later after connection of power.

When the power is connected at 2 P.M, it is operated at 2 A.M every day. If users want to change the operation time, turn off the power at desired time and turn on.

- ① While the ACS smart cleaning function is operated, the “ICE FULL” LED and “WATER FULL” LED blink alternatively for up to 1 minute, and the unit is out of order.
- ② Use the unit when the smart cleaning function is finished and cold water tank are filled again. (Around 50 minutes until water full.)  
(Water temperature: 25°C)



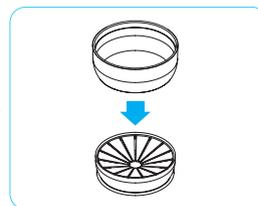
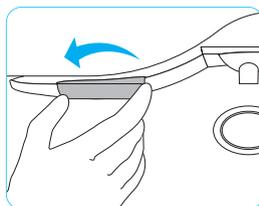
## 6. Usage safeguards

- 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 overheating to outlet.)
- 3 Never move the unit while in operation. (It 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 throw away any liquid (ex. Ramen soup, coffee waste, etc.) except water. It may clog the drainage hole.
- 6 Avoid the use of chemicals around the unit (volatile material, organic solvent, etc.) and do not place chemicals near the unit.
- 7 If water is not served for a long time even though the unit is turned on, check that water is being supplied and the unit is purifying water normally.  
(If the water supply is cut, wait until the tap water works as the unit unplugged.)
- 8 Water storage tank can be contaminated with microbe from outside. Cleaning is recommended once a month. Cleaning procedure is as below.  
(Open drain valve • Drain water completely • Open the lid of the storage tank •Brush up with soft cloth  
• Assemble the parts in a reverse way.)
- 9 Make sure that lid of water tank is closed perfectly.  
(Improper alignment may allow pollutants and other insects to enter the water tank.)
- 10 Plug out the power prior to cleaning inside and do not apply the water to the unit directly.  
(An electric shock and fire may occur.)
- 11 If the unit does not respond to the touch buttons, broaden the contact area where the touch button is pressed.
- 12 In case the unit is not used for long period of time, 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.)
- 13 If you do not use ice for many hours, the size of ice may decrease.
- 14 After the water cooling system is turned on, the time to reach the set temperature may vary depending on conditions (temperature, moisture, source water, etc.)
- 15 Filters for this unit are consumables. Replace filters regularly to maintain the water quality.  
(Using expired filters may cause water contamination.)
- 16 The ratio of cold water to brine water is about 1:2. Brine water or drain 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.)
- 17 Do not use a radio or other electronic device with an output power of 1W or over near the unit. (not within 1m) It may cause malfunction.
- 18 In case abnormal sound, smell and smoke occur, contact our distributor.

# 7. Cleaning

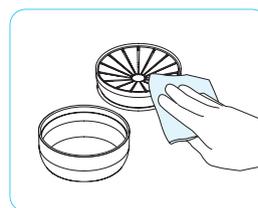
## Ice dispensing spout

① Turn the spout to the left to disconnect it from the body.

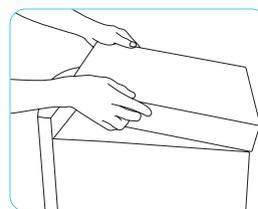
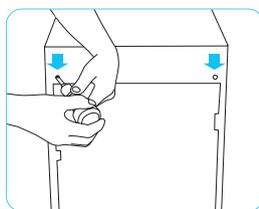


② Separate rubber cap from ice dispensing spout and clean them.

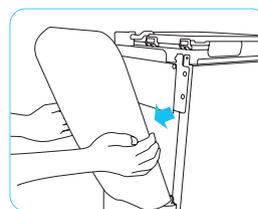
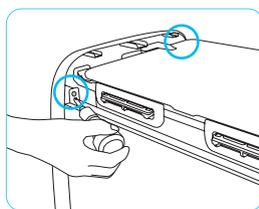
③ After cleaning, put the rubber cap back into ice dispensing spout.



④ Loosen screws (2EA) on the rear of the unit and detach the top cover of the water tank.

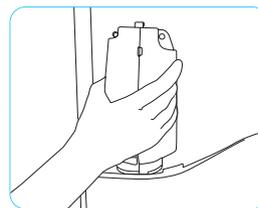
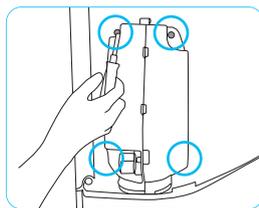


⑤ Loosen screws (2EA) on the rear of the front cover, and then separate the cover by lifting it up slightly.



⑥ After separating the front cover, loosen and remove screws (4EA).

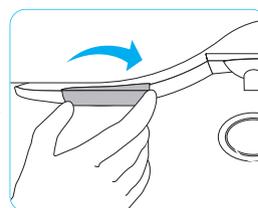
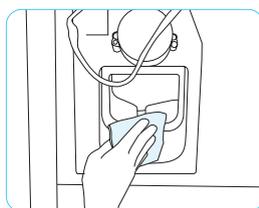
※ Do not strongly pull the wire connected to the ice dispensing spout.



⑦ Clean up the inside and outside of the ice dispensing spout and wash with soft cloth or dried sanitary wipe.

⑧ And then assemble in a reverse way.

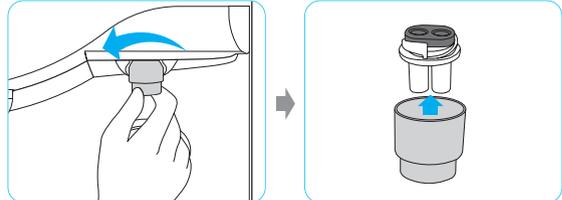
⑨ After assembling the front cover, put the ice dispensing spout back by turning to the right.



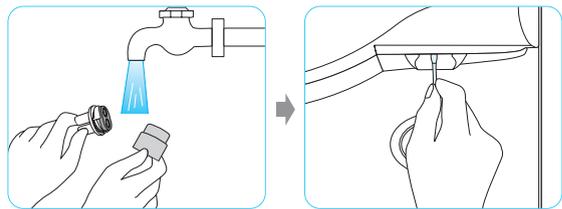
# 7. Cleaning

## Water dispensing spout

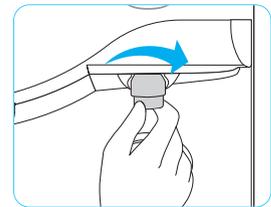
- ① Turn the spout to the left to disconnect it from the body.
- ② Separate tip from water dispensing spout.



- ③ Wash the spout and tip with flowing water.
- ④ Use a cotton swab to clean inside the spout.  
※ Do not use any detergent, paint thinner, benzene, or wax, which are harmful to human health, to clean the water dispensing spout as they might discolor, degrade, or damage the unit.

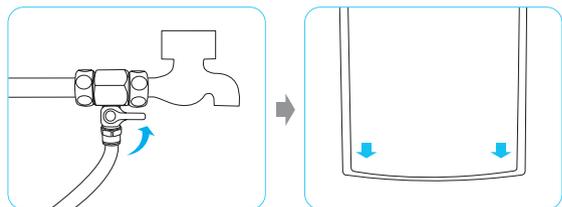


- ⑤ After cleaning, put the tip back into water dispensing spout and put it back by turning to the right.

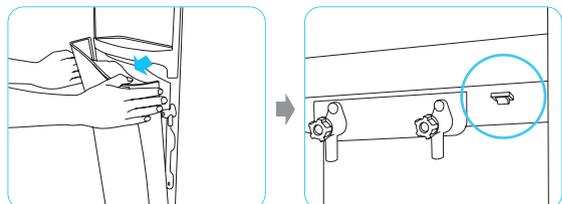


## Ambient water/cold water/ice tank

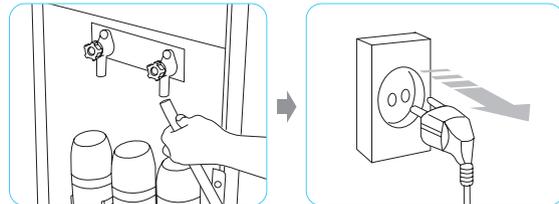
- ① Shut off the source water valve.
- ② Loosen screws (2 EA) beneath of the lower front cover and detach it.



- ③ After detaching the lower front cover, turn the drain switch ON.

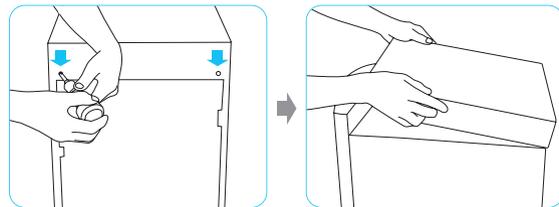


④ Open drain valve to drain ambient, hot, and cold water completely.

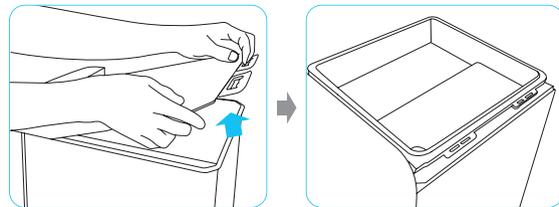


⑤ Plug out.

⑥ Loosen screws (2EA) on the rear of the unit and detach the tank cover.

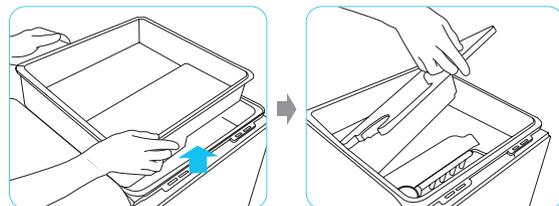


⑦ Detach the ambient water tank cover.

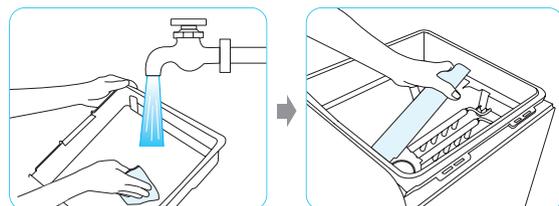


⑧ Separate the ambient water tank by pulling it up vertically.

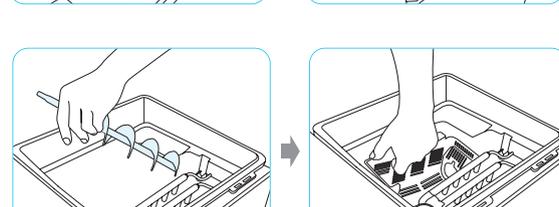
※ A silicone seal is under the ambient water tank. Do not allow the seal to be separated from the water tank.



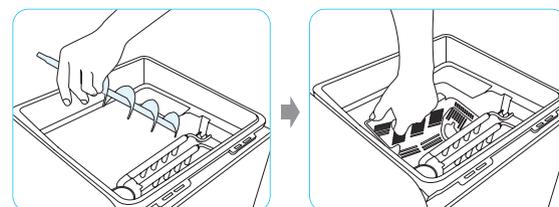
⑨ Detach the ice tank cover after separating the ambient water tank.



⑩ Clean up the separated tank with running water and then wash with soft cloth or dried sanitary wipe.



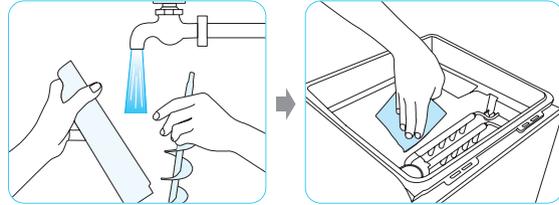
⑪ Detach the rotating drip tray.



⑫ Separate the spiral from the inner center by pulling it up before separating the ice tank.

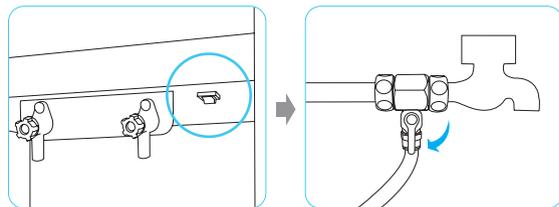
# 7. Cleaning

⑬ Clean up the rotating drip tray, spiral, and ice tank with running water and then wash with soft cloth or dried sanitary wipe.



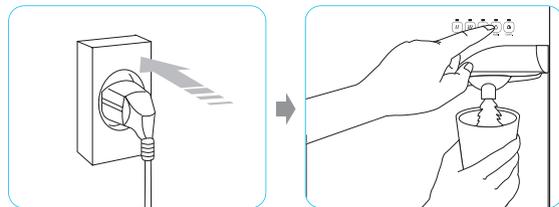
⑭ Wash the inside of the cold water tank with soft cloth or dried sanitary wipe, and then assemble in a reverse way.

⑮ Close the drain valve and turn the drain switch OFF.



⑯ Open source water valve.

⑰ Plug in.



⑱ Check if hot, cold and ambient water are served after 80 minutes. (Water temperature: 25°C)

⑲ Drain the newly purified water completely once and use it.

## Check Point

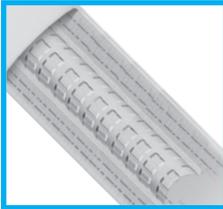
- ※ Wash your hands first and put on sanitary gloves. Clean up the tank with soft cloth or dried sanitary wipe.
- ※ Do not use chemicals or detergent.
- ※ Discard used sanitary wipe, sanitary gloves etc after cleaning.
- ※ Make sure that tank cover is closed and air filter is installed properly.
- ※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

# 8. Maintenance

Section		Details
Installation	Location	- The unit can be installed at low water pressure place within water quality range.
	Environment	<Do not install the unit in places below> - A place exposed to direct sunlight. - Nearby toilet. - In front of cooling or heating device.
Use	Water dispensing spout	- Cleaning up water dispensing spout once a week is recommended. If foreign substance splashes onto water dispensing spout, wipe it off right away. - Do not take water with your mouth and not let used cup touch water dispensing spout.
	Ice dispensing spout	- Avoid taking ice with cup filled with beverage, coffee etc.. - Cleaning up ice dispensing hole once a week is recommended. If foreign substance splashes onto ice dispensing spout, wipe it off right away. - Separate rubber cap from ice dispensing spout and clean up once a week.
	Drip tray	- Do not throw away any liquid except water. - If there is the water, throw it away and clean up once a week.
Checkup	Regular checkup	- Check up the unit regularly (once every two months) and during the filter replacement. - Do not allow any foreign substance (insects, service kit, etc.) to enter the water tank during the regular tank checkup. After the checkup, confirm that the unit is perfectly and properly assembled. (Check that the tank cover and air filter are properly assembled.)
	Self-maintenance	- Clean up water dispensing spout, ice dispensing spout and drip tray on regular basis
Maintenance	Filter replacement	- 5 minutes of flushing is necessary. If not, carbon powder can be found in water tank. - Do not allow external shock to the filter.
Prevention of scale buildup	Smart cleaning function	- The unit is designed to empty water every day to prevent scale.

# 9. Filter function and service life

## Filter function



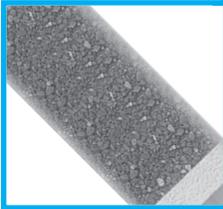
### T-Pre-rs-carbon filter

It is made from high temperature processed carbon. Firstly, it removes floating particles, rust, and particulate pollutants, and then secondly, absorbs and eliminates dissolved pollutants (such as chlorine, THMs and organic chemical contaminants), so it protects the membrane filter.



### 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 μ pore size, 1/1,000,000 of hair) and the dissolved pollutants are discharged through brine tube.



### T-Post-carbon filter

It is made of Calgon Carbon's activated carbon that is famous for its highest degree of quality and performance to improve water taste by removing dissolved gases and odors. Also, it minimizes fine particles by using anti-fine-particle fabric.

## Filter service life

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

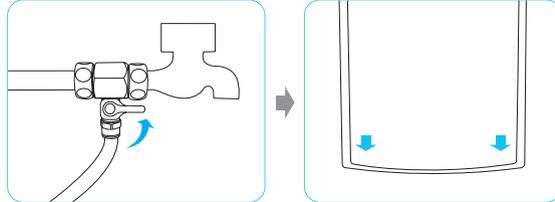
※ Filter service life is varied depending on environment such as location, water conditions (quality, temperature), amount of water used and seasons (summer, winter).

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

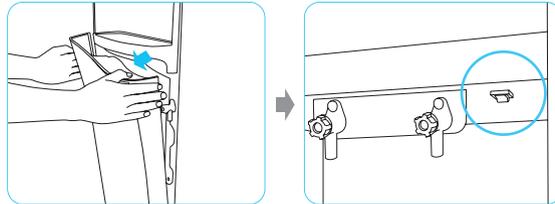
# 10. Replacement

① Shut off the source water valve.

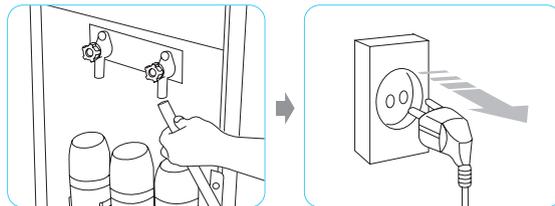
② Loosen screws (2 EA) beneath of the lower front panel and separate the lower front panel.



③ After separating lower front panel, turn the drain switch inside of unit ON.

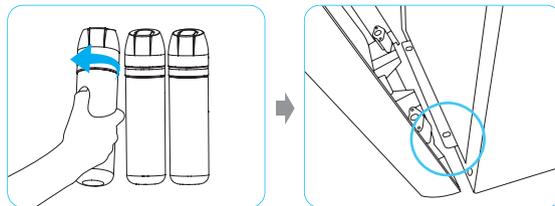


④ Open the drain valve to completely drain the ambient, hot, and cold water.



⑤ Plug out.

⑥ Lift the filter and turn to the left and pull it off.



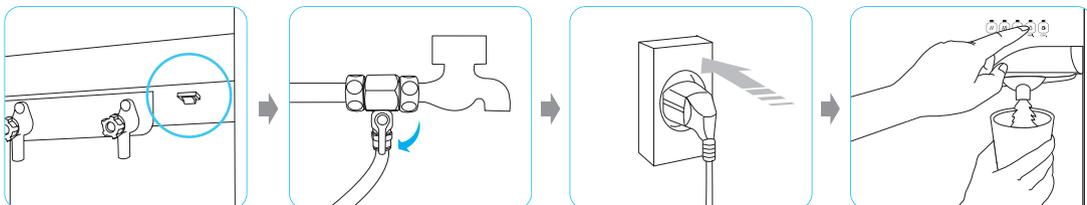
⑦ Turn the filter to the right side to make straight line on replacement filter and standard point of filter head and line (i).

⑧ Shut off the drain valve, and then turn the drain switch OFF.

⑨ Insert the lower front cover properly and then assemble in a reverse way.

⑩ Open source water valve and plug in.

⑪ Check if hot, cold, and ambient water are served after 80 minutes.  
(Water temperature: 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.

# 11. Specification and flow diagram

## Specification

Product name	ChungHo Ice Water Purifier NEW 700 Electric cold water dispenser (hot water dispenser and ice maker)	Reservoir capacity	Ambient water	7ℓ
Model name	CHP-5380S2		Cold water	2.8ℓ
Weight	45.9 kg		Hot water	2.5ℓ
			Ice	2kg (storage capacity: 1.2 kg)
Energy consumption efficiency	rating: 3	Cold water temperature regulation	Thermistor	
Power consumption	Hot water	500 W	Hot water temperature regulation	Thermistor
	Cold water	0.6A(120 W)	Overheating prevention system	Bimetal (Manual return)
	Ice making	0.6 A(105 W)	Safety system	Overheating prevention system, Water level detecting system, water leakage prevention valve, fuse
External dimension	360Wx455Dx1424H(mm)			
Weather class	N class(90 °F±1 °F)(32 °C±1 °C)	IP class	IPX1	
Power cord	2.5 m	Rated voltage	Refer to the front page	
Place of installation	Indoor, House, Office, Store, etc			

- ※ "N class" indicates temperate climate.
- ※ IP class stands for "international protection" against water.
- ※ Reservoir capacity can be different from indicated water amount.

# 12. Troubleshooting

- ※ It take about 90 minutes to fill a tank. (Water temperature: 25°C)
- ※ It takes about 80 minutes to cool ambient water down and prepare cold water. (Room temperature: 25°C)

Symptoms	Check points	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 hot water is not served even though "HOT" touch button has been selected.	Is the HOT LOCK (hot water lock) function set?	Request follow-up service.	Release HOT LOCK function.
When ambient water is not served.	Is tap water being supplied?	Wait until the tap water works as the unit unplugged.	If the ambient water is not served after given time for filling the tank, then request follow-up service.
When cold water is not cold enough and cold water is not served. (When taking cold water)	Is water in ambient water tank?	Cold water is being produced. (It takes about 50 minutes.)	Wait until the water level of ambient water tank reaches at operating point for hot and cold water.
	If the unit is making ice (for about 10 minutes), wait until the ice making process is completely finished. The system allows cold water dispensing only after the process.		
When hot water is not hot enough and hot water is not served. (When taking hot water)	Is "HOT(hot water operation)" LED is on?	Set "HOT" (hot water operation) by touching "HOT/ECO" button.	Wait until the hot water tank becomes hot enough. If problem still occurs, request follow-up service.
	Have you taken hot water more than 0.625G (2.5ℓ) at a time?	Hot water is being produced. (It takes about 30 minutes.)	Wait until the water level of ambient water tank reaches at operating point for hot and cold water.
	Is water in ambient water tank?		
When deformed ice is discharged.	Is it the first ice after power failure?	If you do not use ice for a long time, ice may melt. Touch the ice (ice discharge) touch button several times for 2-3 seconds.	When returning to power failure, de-icing operation is performed first for safe operation. Then, deformed ice can be discharged.

# 12. Troubleshooting

Symptoms	Check points	No	Yes
When drip tray is not emptied.	Is there any foreign substance in the drain hole of the drip tray?	Request follow-up service.	Remove all foreign substances from the drain hole.
	Is the drain tube on the rear of the unit bent or pressed down by heavy objects?		Install a drain tube properly.
	Is drain tube is longer than 118" (3m) or the highest point of installed drain tube higher than 12" (30cm)?		Request follow-up service for an additional drain pump.
When the unit produces no ice.	Is tap water being supplied?	After supplying tap water to the unit, unplug and re-plug the power cord.	Wait until the water level of ambient water tank reaches at operating point for hot and cold water.
	Is "ICE" LED is off?	Request follow-up service.	Turn on "ICE" switch.
How to maintain a silicon tube?	When a silicon tube is contaminated by using for an extended period of time, request follow-up service.		

※ Contact our distributor if symptom is not solved.

