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CHUNGHO ChungHo Nais Co., Ltd.



 *Whi Caffe-IV* edge
Italian Capsule Coffee

User's manual

CHP-5350DL / CHP-5351DL

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



GOOD DESIGN
AWARD 2015
JAPAN INSTITUTE OF
DESIGN PROMOTION



GOOD DESIGN
산업혁신지원부선정

Unit features

- 1 **Coffee capsule extract function for Italian flavor of coffee**
Extract function for coffee and tea is applied to allow users to enjoy Italian flavor of coffee and tea.
- 2 **Reverse osmosis purifying system without pump**
This unit serves purified water from reverse osmosis system without booster pump. This decreases the function noise and power consumption accordingly.
- 3 **All-in-one water purifier with caffe**
Water with 3 different temperature (hot, cold and ambient), ice and extract function offer various beverages on user's preference.
- 4 **Detachable capsule holder and hygienic operation**
Extract method is easy to follow by inserting a capsule to the holder and push the desired beverage button. Detachable capsule holder helps to stay clean by rinsing it with water simply.
- 5 **ACS smart cleaning function**
This makes users not to worry about contamination by bacteria as it empties the ambient water and cold tank automatically every 4 days in fixed time and fill the clean water which is sterilized by UV sterilizer.
- 6 **Selection key for optimized taste of various coffee capsules**
Buttons for Espresso, Americano and Tea are designed for the best taste of its coffee and tea.
- 7 **Easy and quick extract for Americano**
In case "AMERICANO" button is applied, hot water is added while extracting coffee.
- 8 **Compact size (width: 29 cm)**
Compact-sized water purifier can be installed by effectively utilizing the space.
- 9 **Extended water dispensing space**
It is convenient to take water with any shape of bottle as height of water dispensing space is up to 25 cm.
- 10 **Dual heating system**
Hot water is made by standby heating mode or hot tank heating mode. User can easily select the mode by their preference. It enhances energy efficiency.
- 11 **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 supply always clean and fresh water. (patent : No.105585)
- 12 **Filter structure is designed for user friendly**
It is convenient to replace filters as they could be detached by lifting them.
- 13 **Easy maintenance system**
It is more convenient that empty water tank within 11 minutes by pressing the button once for cleaning inside.

This appliance is intended to be used in household and similar applications such as

- staff kitchen areas in shops, offices and other working environments
- farm houses
- by clients in hotels, motels and other residential type environments
- bed and breakfast type environments

Greetings

We greatly appreciate your purchase of "WHI CAFFE-IV". 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 unit, read this user's manual thoroughly and keep it for your future reference.

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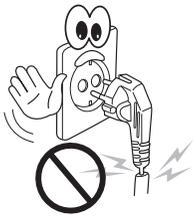
Safety precautions

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



Danger

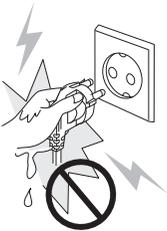
Associated with the possibility for serious injury or death.



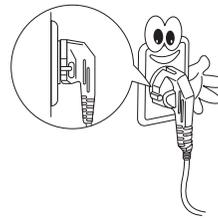
- When the power cord has been damaged, change the power cord in order to prevent danger such as an electric shock, etc. (Do not use damaged or loose wall outlets. An electric shock or fire may occur.)



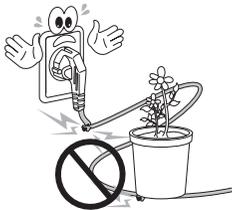
- Keep the cord out of heavy traffic areas. (This can lead to overheating the outlet.)



- Leave the unit unplugged, before cleaning the inside of the unit. (An electric shock or fire may occur.)
- Do not touch the power plug with wet hands. (An electric shock may occur.)



- 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.)



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



- Do not put candles, lit cigarettes, etc. on the unit. (There is 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.)

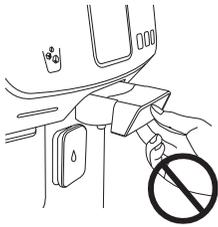


- While coffee is extracting, do not stay close to coffee outlet. (Coffee splashes and it can cause burns.)

Safety precautions

Caution

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



- While coffee is extracting, never try to separate capsule holder.
(Coffee machine can have damage and hot beverage can cause burns.)



- Do not try to extract coffee or tea without cup.
(Beverage can overflow from drip tray and it can cause burns.)



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



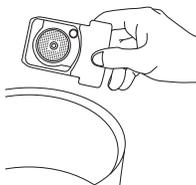
- Do not insert finger to the coffee outlet with capsule holder separated.
(Finger can be injured by being caught.)



- Make sure that drip tray is properly installed when you extract coffee.
(Hot coffee can spill over.)



- Do not reuse the capsule.
(Capsule can have deformation and it cause leakage.)



- Remove used capsule from the capsule holder.
(Leaving the capsule for long time can cause germ and mold in the holder.)
- Be careful of burns when you throw away capsules after extract.
(Small amount of hot water remaining capsule holder can cause burns.)



- Use designated capsule size only.
(Do not use other sized capsules. Different size can cause malfunction and burns.)

Safety precautions

Caution

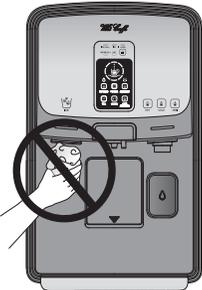
Associated with the possibility of injury, property damage and reduced performance of unit.



- 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.)



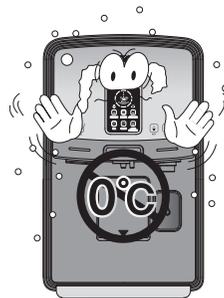
- To avoid burns from hot water, use containers such as a cup during hot water dispensing.



- Do not operate the unit standing unbalanced.
(It can cause malfunction.)
- 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 damage or overall trouble.)



- To avoid burns from beverage, use containers such as a cup during coffee extract.



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

Safety precautions



Caution

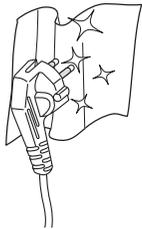
Associated with the possibility of injury, property damage and reduced performance of unit.



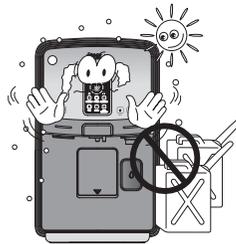
- After installation, arrange the power cord so that it will not be stepped on or stepped over.



- To disconnect the unit, be sure to pull by the plug and not the cord.
(Be sure to pull by the plug, not the cord to disconnect the unit.)



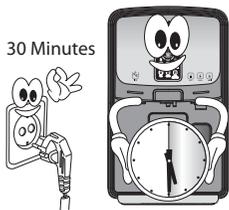
- If there is dust, water or etc. on the power plug pin, wipe it off well.
(Wipe it off dust, water or etc. on the power plug pin before connection.)



- 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.)



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



30 Minutes

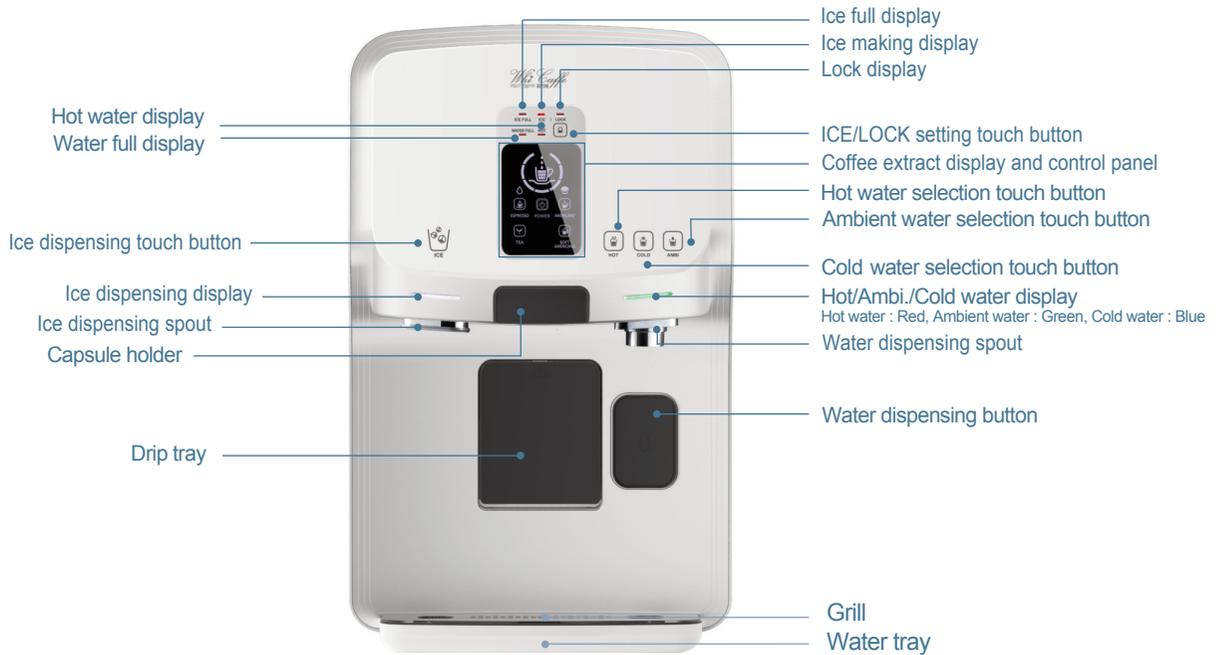
- After transporting the unit, do not supply the power for at least 30 minutes to stabilize the unit.

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

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.

Names of each part



Installation cautions

- 1 Do not install the unit at the following places.
 - Near fire or heater
 - Near flammable material
 - Wet place
 - Near the toilet
 - 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 : 1.4~7 kgf/cm²(137~686 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 distributor. 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.
 - * More 3° tilting can cause performance degradation.

- 5 Do not connect hot water over 100 °F(38 °C) to this unit.
 - * This can cause trouble and malfunction.

- 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 any heavy objects.
 - * 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 unit(water purifier, shower softener, etc.), tubes of source water, brine water need to be independent for one another.

Installation method

1 Install horizontally.

* The unit is recommended to install on the sink or table above 80 cm from the floor.

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(packaging) 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 brine on the rear of the product. And then, connect tube to drain hole such as sink, toilet etc..

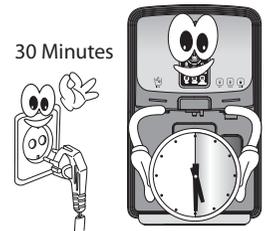
5 Do not plug in the power for 30 minutes in order to stabilize the cooling system and safe use of unit.

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

7 Check if water is supplied into the unit properly and any leakages on every connection.

8 After 1 hour has passed from supplying the power, check if water is coming out by pressing the water dispensing button.

9 Empty the water in the tank when "WATER FULL" lights on.



How to extract coffee and tea

Display and coffee extract button



 ESPRESSO	Espresso extracting button	Used to extract the Espresso.
 POWER	Power/Warm-up button	Turns ON/OFF the extract function
 AMERICANO	Americano extracting button	Used to extract the Americano.
 TEA	Tea extracting button	Used to extract the Tea.
 SOFT AMERICANO	Soft Americano extracting button	Used to extract the Soft Americano.

Extracting coffee and tea

 POWER	<ul style="list-style-type: none"> Power button Press "POWER" to turn on the heater before extracting Espresso/Americano /Tea/Soft Americano. Power LED will blink to indicate pre-heated water is ready to extract.
 ESPRESSO	<ul style="list-style-type: none"> Espresso Press "ESPRESSO" to extract the coffee after inserting the coffee capsule. Press "ESPRESSO" again to release this function.
 AMERICANO	<ul style="list-style-type: none"> Americano Press "AMERICANO" to extract the coffee after inserting the coffee capsule. Press "AMERICANO" again to release this function.
 TEA	<ul style="list-style-type: none"> Tea Press "TEA" to extract the tea after inserting the tea capsule. Press "TEA" again to release this function.
 SOFT AMERICANO	<ul style="list-style-type: none"> Soft Americano Press "SOFT AMERICANO" to extract the coffee after inserting the coffee capsule. Press "SOFT AMERICANO" again to release this function. ※ Use the container(More than 230 ml) for Soft Americano extract.

* Refer to the details on how to use the function on 11~13 page.

Using coffee and tea extract method

LCD display for coffee extract

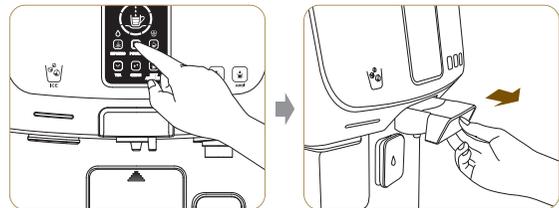
Before heating	Heating	Heating completion (Standby)	ESPRESSO/AMERICANO/ SOFT AMERICANO/TEA preparing extraction
ESPRESSO/AMERICANO/ SOFT AMERICANO/TEA extracting	ESPRESSO/AMERICANO/ SOFT AMERICANO/TEA extraction completed	No capsule	Not enough water

Extracting coffee and tea

* When Americano / Soft Americano is selected, there is possibility that hot Americano will not be extracted if hot water function is off and heating is not completed.

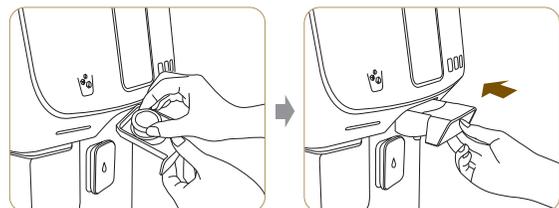
1. Press "POWER"

- * While pre-heating, extraction preparation LED is lighting in turns.
- * After completion of heating, every extraction button is lighting with beep sound.(Sound : Ding-Ding-Ding)



2. Pull out capsule holder.

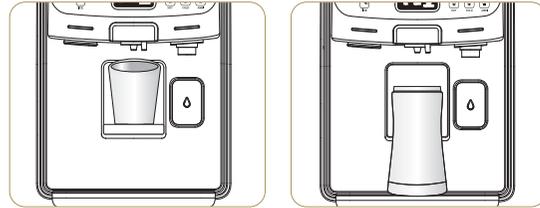
3. Insert the coffee or tea capsule to the holder and push it.



Using coffee and tea extract method

4. Put the cup on the drip tray.

- * When users use small size of cup, press the button in the bottom of drip tray to take it out.
- * Coffee in 6.5 oz(180 ml) sized cup can spill over when user extract Soft Americano and be careful of burns when you are holding the cup. Use big sized mug or paper cup bigger than 8 oz(230 ml).

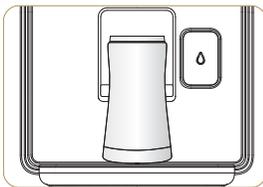


How to use drip tray

- Adjust height of drip tray when extracting the coffee so as not to splash around area and for abundant Coffee Crema.

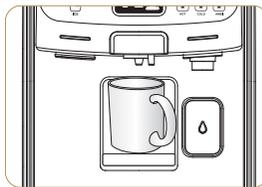
<Low>

For low height of tumbler or big sized mug



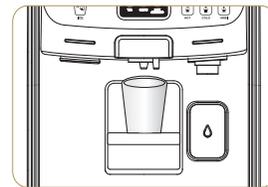
<Middle>

For mug or big sized paper cup(Less than 400 ml)



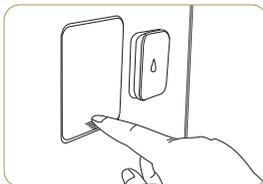
<High>

For general sized paper cup (Around 180 ml)



• How to adjust height of drip tray

1. Press the button in the bottom of drip tray.



2. Pull out the drip tray by pressing both sides of buttons to adjust the height.



3. Hook the drip tray to the groove and detach a hand from the drip tray to fix it.



- * Take down the drip tray 1 more time as it has protection function at 60 degree to prevent fingers from being caught.
- * Check if drip tray is fixed properly by moving it up and down.

• Cup holder function of drip tray

1. There are groove for paper cup and hump for mug on the drip tray to fix the cups stably while extracting the coffee.

- * Do not extract the coffee by leaning the cup to the hump. Coffee can be spilt over and this can cause burns.



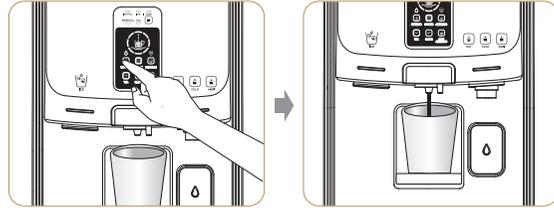
Using coffee and tea extract method

5. Press the "ESPRESSO", "AMERICANO", "TEA" or "SOFT AMERICANO" on user's preference.

* Use designated capsule size only.

6. Coffee or tea is extracted by high pressure.

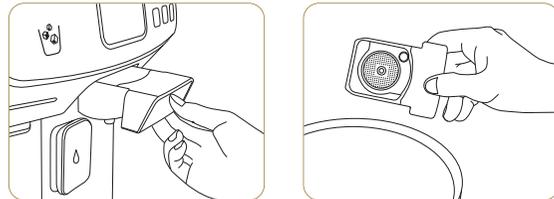
* Extracting the coffee or tea causes noise and vibration from motor and high pressure pump. This is normal operation.



7. Extracting is completed with beep sound. (Sound : Ding-Ding-Ding)

8. Remove capsule and water in capsule holder.

* Extracting can generate small amount of water in capsule holder. It is normal operation.



9. Add the "HOT", "COLD" or "AMBI." water on user's preference.

* For iced coffee, we recommend that you take ice cubes first and extract coffee.

* After warm-up completion, coffee or tea can be extracted immediately.

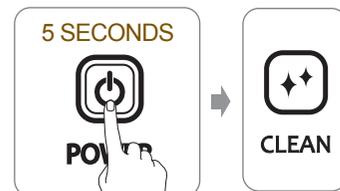


Check point!

- * When extracting the coffee or tea, be careful as beverage is hot.
- * Do not separate capsule holder while extracting the coffee or tea. There is danger of burns.
- * For iced coffee, we recommend that you take ice cubes first and extract coffee to avoid spattering beverage and burns. It can cause germ and mold in ice spout.
- * Use big sized cup(More than 230 ml) when extracting Soft Americano.

Descaling coffee outlet

1. Pull out the coffee/tea capsule from the capsule holder.
2. Press "POWER" button for 5 seconds when the power is off.
3. "CLEAN" button LED is blinking and starts to clean up.
4. Place big-sized cup as high pressured water comes out from the unit.
5. Hot and ambient water come out for 12 seconds to clean up the coffee outlet.



* Make sure that capsule holder is empty for cleaning.

Coffee recipe

* 1 shot means a cup of extracted espresso.

Menu	Recipe
Iced Americano	<p>Ingredients : Espresso arabica 100(1 shot) + Ice(10 cubes) + Water(100 ml)</p> <ol style="list-style-type: none"> 1. Fill the glass with chilled filtered water and ice. 2. Pour the espresso over the ice.
Affogato	<p>Ingredients : Espresso lunch(1 shot) + Ice cream(1 scoop)</p> <ol style="list-style-type: none"> 1. Put the 1 scoop of ice cream in the glass. 2. Pour the espresso over the ice cream. 3. Put topping like nuts on user's preference.
Iced Caffe Latte	<p>Ingredients : Espresso lunch(2 shots) + Ice(8 cubes) + Milk(120 ml)</p> <ol style="list-style-type: none"> 1. Put the 8 cubes of ice in the glass. 2. Add the chilled milk. 3. Pour the 2 shots of espresso over the ice.
Shakerato	<p>Ingredients : Espresso morning(1 shot) + Ice(6 cubes) + Syrup(15 ml)</p> <ol style="list-style-type: none"> 1. Fill the cocktail shaker(Tumbler) with ice and syrup. 2. Shake the cocktail shaker after pouring 1 shot of espresso. 3. Take the crema with coffee to the transparent glass.
Iced Vanilla Latte	<p>Ingredients : Espresso morning(2 shots) + Milk(120 ml) + Ice(10 cubes) + Vanilla syrup(20 ml)</p> <ol style="list-style-type: none"> 1. Put the vanilla syrup in the glass. 2. Add the ice and milk. 3. Pour the espresso slowly in the glass.
Caffe Mocha	<p>Ingredients : Espresso arabica 100(1 shot) + Milk(100 ml) + Ice(6 cubes) + Chocolate syrup(15 ml)</p> <ol style="list-style-type: none"> 1. Put the chocolate syrup in the glass. 2. Pour the espresso to melt the chocolate syrup. 3. Pour the milk into the glass and quickly stir it. And then add the ice. 4. Put the whipping cream on the top and decorate it on user's preference.
Espresso Con Panna	<p>Ingredients : Espresso morning(1 shot) + Whipping cream</p> <ol style="list-style-type: none"> 1. Extract the espresso in the warm demitasse glass. 2. Put the whipping cream rapidly.
Yuzu Americano	<p>Ingredients : Espresso arabica 100(1 shot) + Honey yuzu(4 spoons) + Ice(10 cubes) + Water(100 ml)</p> <ol style="list-style-type: none"> 1. Put the 4 spoons(Tea spoon) of honey yuzu and water in the glass and stir them. 2. Put the 10 cubes of ice. 3. Extract the espresso and pour it in the glass. <p>* Putting extra 10 ml of hot water can easily melt the honey yuzu.</p>
Caffe Vienna	<p>Ingredients : Espresso arabica 100(1 shot) + Sugar(5 g) + Hot water(75 ml) + Ice(8~9 cubes)</p> <ol style="list-style-type: none"> 1. Put the hot water in the warm glass. 2. Put the sugar and stir it. 3. Add the 1 shot of espresso and put the whipping cream on it. 4. Decorate it on user's preference adding cinnamon, nuts or syrup.

Operation



Display and function settings (A)

	ICE FULL	ICE FULL LED	Lights up when ice storage is full. (Red)
	ICE	ICE LED	Lights up when "ICE" is set. (Red)
	LOCK	LOCK LED	Lights up when "LOCK" is set. (Red)
	WATER FULL	WATER FULL LED	Lights up when ambient water tank is full. (Red)
	HOT	HOT LED	Lights up when "HOT" is set. (HOT TANK HEATING : RED, STANDBY HEATING : YELLOW)
	Ice making / Hot water function Lock setting button		Used to set/release Ice making/Lock-ing function

Water dispensing selection (B)

	ICE(ICE DIS-PENSER)	Used to take ice.
	HOT(HOT WATER SELECTION)	Used to take hot water.
	COLD(COLD WATER SELECTION)	Used to take cold water.
	AMBI	Used to take ambient water.
	WATER DISPENS-ING BUTTON	Used to take water into a container such as a cup after selecting the desired water selection among hot, cold and ambient water.

	HOT TANK HEAT-ING/OFF/STANDBY HEATING SELECTION SWITCH	Press the switch up and middle and down to select the HOT TANK HEATING /OFF/STANDBY HEATING.
	DRAIN SWITCH	Press the switch up and down to select the drain setting/releasing.

* Hot tank heating mode : Hot water is always served.

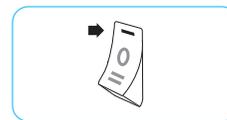
* Standby heating mode : Hot water is made in short time when it is in need.

Usage

Function setting and releasing

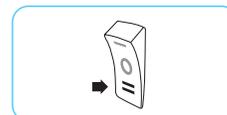
• Hot tank heating function setting

1. Press  heating selection switch attached on the rear.
2. "HOT" LED is on(Red).



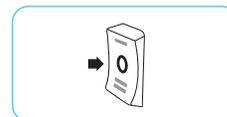
• Standby heating function setting

1. Press  heating selection switch attached on the rear.
2. "HOT" LED is on(Yellow).



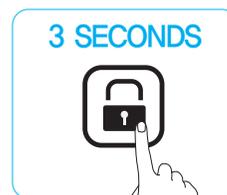
• Hot tank heating / Standby heating function releasing

1. Press  heating selection switch attached on the rear.
2. "HOT" LED is OFF.



■ Lock function (Ice/Hot water locking function) setting

1. Press "ICE/LOCK" touch button softly for over 3 seconds.
2. "LOCK" LED (Red) is turned on and lock function is set.
(Setting sound : Ding~Ding~Ding~)
3. Hot water operation, ice dispensing function will not work after the lock function is set.
* LOCK" is designed to avoid any accidental burns or spout of ice cube due to carelessness.

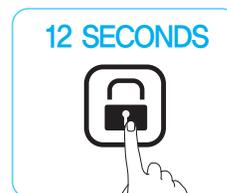


■ Lock function releasing

1. Press "ICE/LOCK" touch button softly for over 3 seconds.
2. "LOCK" LED (Red) is turned off and the lock function is released. (Releasing sound : Ding~Ding~Ding~)
3. Hot water operation, ice dispensing function work when the setting of lock function is released.

■ Ice-making function setting

1. Press "ICE/LOCK" touch button for 12 seconds.
* Press the "ICE/LOCK" touch button for 3 seconds to change the lock function. And then, keep pressing the "ICE/LOCK" touch button until 12 seconds to set the ice-making function. After setting the ice-making function, set the lock function again according to user's preference.
2. "ICE" LED (Red) is turned on and ice making function is set.
(Setting sound : Ding~ Ding~ Ding~)



■ Ice-making function releasing

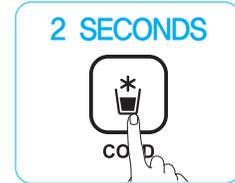
1. Press "ICE/LOCK" touch button for 12 seconds.
2. "ICE" LED(Red) is turned off and the ice making function is released.
(Releasing sound : Ding~Ding~Ding~)
* When it is released, ice-making function will be disabled. However, ice is served until the ice storage is empty.
* Press the "ICE/LOCK" touch button for 3 seconds to change the lock function. And then, keep pressing the "ICE/LOCK" touch button until 12 seconds to release the ice-making function. After releasing the ice-making function, set the lock function again according to user's preference.

Usage

• Constant water dispensing function

1. It is the function to use constant water dispensing. Please push the button for 2 seconds. It beeps and this function is set. (LED blinks when using this function.)
2. If you touch the dispensing button when constant dispensing function is set, it beeps and the water is continuously dispensed.

- * If constant water is set but not taking water, then the function will be automatically released after 10 seconds.
- * When dispensing the water continuously, approximate 0.5 Liter is automatically dispensed. Actual amount of water might be different.

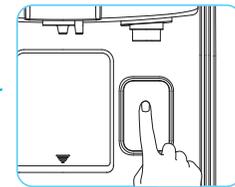


• Constant water dispensing function releasing

When dispensing ambient or cold water continuously, if you touch the dispensing selection button or the dispensing button, it beeps and this function is released.

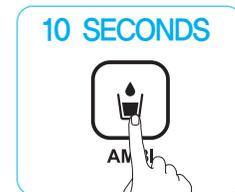


or



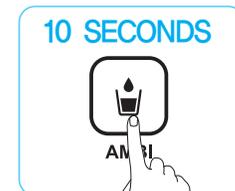
• Beep function releasing

1. Touch ambient water selection button for 10 seconds to release the beep sound.
2. LED of Ice full/water full/ice making/hot water blinks with beep sound when it is released.(Ddiri~Ddiring)



• Beep function setting

1. Touch ambient water selection button for 10 seconds to set the beep sound.
2. LED of Ice full/water full/ice making/hot water blinks with beep sound when it is set. (Ddiri~Ddiring)



Usage

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.



- 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 you don't use the ambient water when the ambient water is chosen, it will automatically convert to cold water mode.

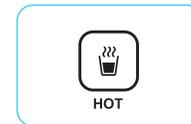


- Hot water dispensing mode

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

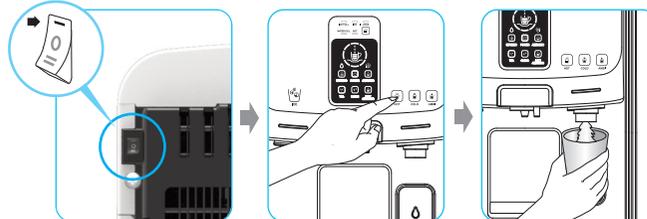
* If "LOCK" function (Ice and hot water dispensing lock) is set, hot water is not served. Use it after releasing the lock function.

* If you don't use the hot water when the hot water is chosen, it will automatically convert to cold water mode.



- Hot tank heating water dispensing mode

1. Press heating selection switch attached on the rear.
2. If "HOT"(Hot water selection) touch button is selected and "WATER DISPENSING BUTTON" is pressed, hot water is served.



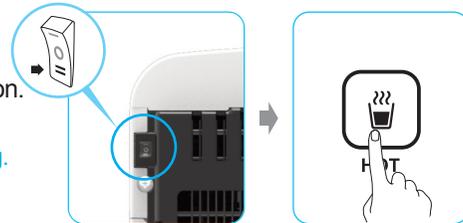
Usage

* If it is not pre-heated, the hot water cannot be dispensed.

• Standby heating water dispensing mode

1. Set heating mode as standby heating.
2. Please touch the "HOT"(Hot water selection) touch button.

- * Hot water LED blinks(Yellow).
- * 2.5 minutes are taken until completion of standby heating.
- * Dispensing the hot water is available after completion of standby heating for 10 minutes.



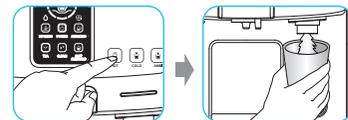
3. LED is changed in accordance with standby heating process as below.
Yellow → Orange → Red

- * When standby heating function is completed, "HOT" LED blinks(Red) with beep sound.



	Yellow	Orange	Red
Standby heating Level	Level 1	Level 2	Completion of standby heating
Hot water temperature	Under 60 °C	60 ~ 85 °C	More than 85 °C

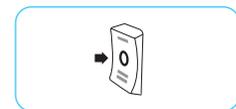
4. If "HOT" touch button is selected and "WATER DISPENSING BUTTON" is pressed, hot water is served.



- * When taking hot water constantly, temperature of water can be below 50 °C. Then, hot water is not served automatically.
- * When the unit stops dispensing hot water, standby heating starts off automatically.

• Hot water function releasing

Set the switch to O on the rear of the unit.



Smart cleaning function

It is the function to automatically clean the inside of the water tank in order to prevent the contamination during the time when people seldom use the unit once every 4 days (UV unit) / 15 days (Normal unit)

- It operates same time every 4 days / 15 days, as it is set the standard time which is 12 hours later after connection of power.

e.g.) When the power is connected at 2 P.M, it is operated at 2 A.M every 4 days / 15 days. If users want to change the operation time, turn off the power at desired time and turn on.

1. Water dispensing LED blinks around 9 minutes and users cannot use the unit at this time.
2. Use the unit when this function is finished and cold/ambient water tanks are filled again. (Around 60 minutes until water full.)



Cautions during use

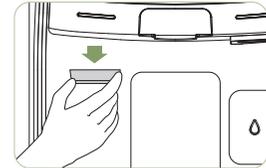
- 1 Refer to the voltage on the front page. Connect to the proper power source.
- 2 Keep the cord out of heavy traffic areas.
(This can lead overheating to outlet.)
- 3 Never move the unit while in operation.
(It can cause a malfunction.)
- 4 Do not install the unit in a place where the temperature may drop below 32 °F(0 °C).
- 5 Avoid the use of chemicals around the unit(volatile material, organic solvent, etc.) and do not place chemicals near the unit.
- 6 Water storage tank can be contaminated with microbe from outside. Cleaning is recommended once a month.
- 7 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.)
- 8 Make sure that lid of water tank is closed perfectly.
(Improper alignment may allow pollutants and other insects to enter the water tank.)
- 9 If the unit does not respond to the touch buttons, broaden the contact area where the touch button is pressed.
- 10 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.)
- 11 When operating the cold water, the time which can reach a set temperature might be different depending on the surrounding circumstance.
(Temperature, humidity, raw water)
- 12 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.)
- 13 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.)
- 14 Use the unit in a place which is 1 meter away from the product that generates the 1 W electric wave.
- 15 Disconnect the power plug and lock the source water valve if the abnormal sound, smell and smoke occur, and then contact our distributor.

Cleaning

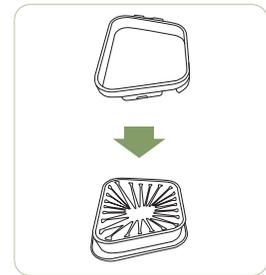
Ice dispensing spout

• The ice dispensing spout

1. Separate the ice dispensing spout toward down side by pushing it backside.



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

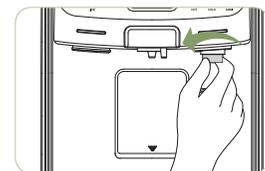


3. After washing the ice dispensing spout, hook it up.

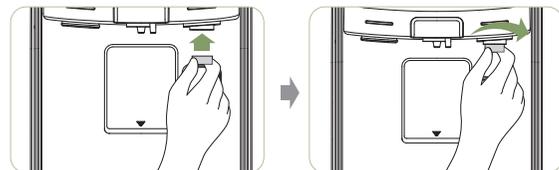


Water dispensing spout

1. Turn faucet deco to the left to disconnect it from the body.

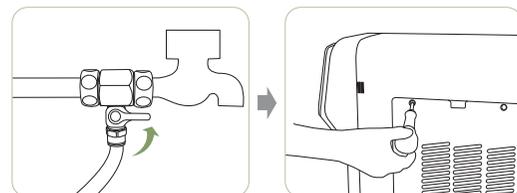


2. After cleaning, put it back by turning to the right.



Water tank

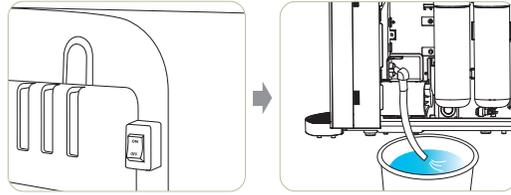
1. Shut off the source water valve and detach the cover after loosening the fixed screw on the right side of the unit.



Cleaning

2. Turn the drain switch ON on the rear of the unit.

* The cold / ambient water can be drained for 10 minutes by an auto drainage function. And the cold / ambient water can be drained as well through the water outlet.

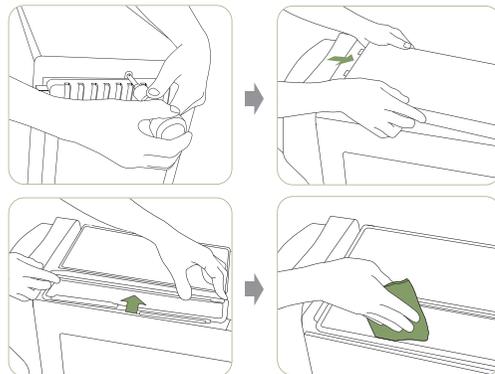


3. Drain the hot and ambient water by plugging the drain hose to drain valve.

4. Take all ice out by pushing the Ice button.



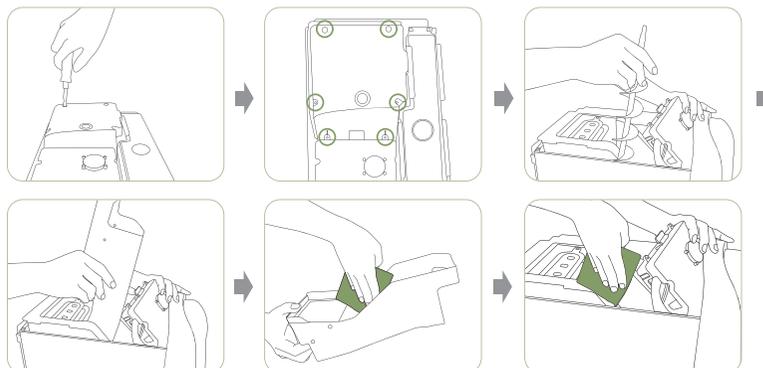
5. Loosen the fixed screw at the back side of the unit and separate the ambient tank cover. After wiping the ambient water tank cover with a soft cloth or dry cleaner, assemble the unit again.



<How to clean the ambient water tank>

6. When separating ice storage tank, loosen six fixed screws on the top side first.
7. After separating the spiral, located in the middle inside, by pulling it up, please detach ice storage tank.
8. After wiping the ice storage tank and the cold water tank with a soft cloth or a dry cleaner, assemble it again.

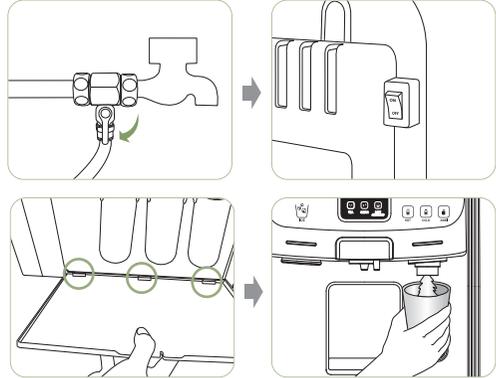
* Do not treat harshly the component inside the unit. It may cause the noise.



<How to clean the cold water tank / Ice storage tank >

Cleaning

9. Open source water valve
10. Turn the drain switch OFF on the rear of the unit.
11. Tighten the fixed screws after inserting the right cover properly.
12. Check if cold/ambient water is served after 1 hour.
13. Drain the newly purified water completely once and use it.

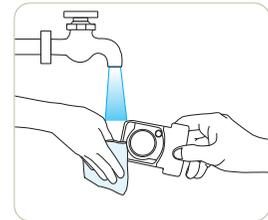


Check point

- * Wash your hands first and put on sanitary gloves. Clean up the tank with soft cloth or dry cleaner.
- * Do not use chemicals or detergent.
- * Discard used cleaner, 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.

Capsule holder

Clean up the capsule holder with soft cloth or sponge with running water every day.



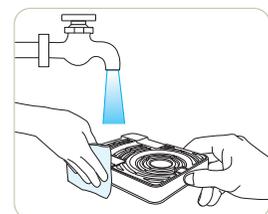
Coffee outlet packing

Separate the capsule holder to clean up the inside of coffee outlet packing with soft cloth or clean towel frequently.



Drip tray

Clean up the drip tray with soft cloth or sponge with running water.



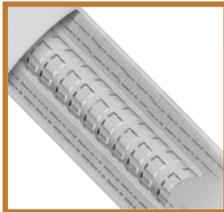
Maintenance

Section		Details
Installation	Location	- The unit can be installed within recommended water quality range. (Water pressure : 1.4~7 kgf/cm ² (137~686 kPa))
	Environment	<Do not install the unit in places below.> - A place exposed to direct sunlight. - Nearby toilet. - In front of cooling or heating device.
Water purifier use	Water dispensing spout	- Recommend to clean up water dispensing spout once a week. - If foreign substance splashes onto water dispensing spout, wipe it off right away.
		- Do not touch water dispensing spout with hand or mouth and used cup.
	Ice outlet	- 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	Self maintenance	- Clean up water dispensing spout and water gutter 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	ACS product	- The unit totally drains all water in the tank once every 4 days (UV unit) / 15 days (Normal unit). It can prevent the scale build up.
Coffee outlet	Capsule holder	- Separate the capsule holder to clean up every day.
	Descaling	- Descale once(Refer to 13 page) before extracting the coffee.

Filters

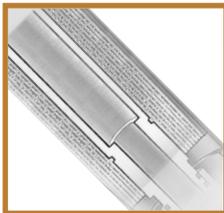
* UV sterilizer is only applied to CHP-5351D.

Filter function



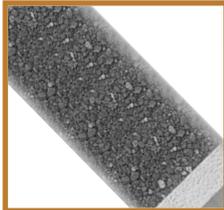
TCR-Pre-carbon filter

This carbon block filter was compressed in a high temperature. It efficiently removes a suspended solid, rust debris in a first stage and it minimizes a decrease in a flow caused by a turbidity material. And it eliminates chlorine, trihalomethane, organic chemicals in a second stage and protect the membrane filter.



TCR-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 μm pore size, 1/1,000,000 of hair) and the dissolved pollutants are discharged through brine tube.



TCR-Post-carbon filter

It removes dissolved gases and odors to improve water taste.



UV sterilizer

It sterilizes a germ in the raw water.

Filter service life

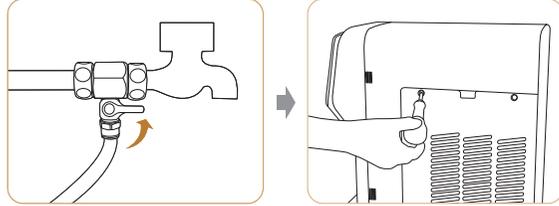
Filter	Replacement cycle
TCR-Pre-carbon filter	About 6 months
TCR-Membrane filter	24 months
TCR-Post-carbon filter	18 months
UV sterilizer	About five years

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

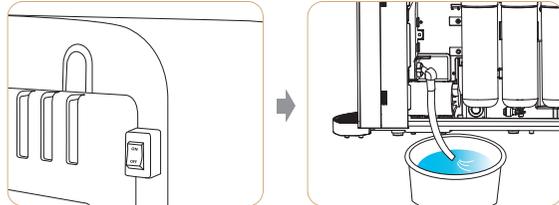
* You can take clean water by replacing filters according to the recommended filter service life.

Replacement

1. Shut off the source water valve and detach the cover after loosening the fixed screw on the right side of the unit.

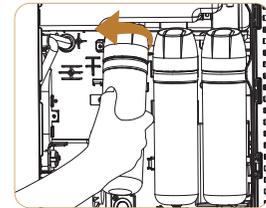


2. Turn the drain switch on the rear of the unit ON.
* Cold / ambient water is automatically drained for 10 minutes as automatic drain function is applied. Also, cold / ambient water can be drained through water dispensing spout.



3. Connect drain hose to HOT/AMBI. Drain valve to drain hot and ambient water.

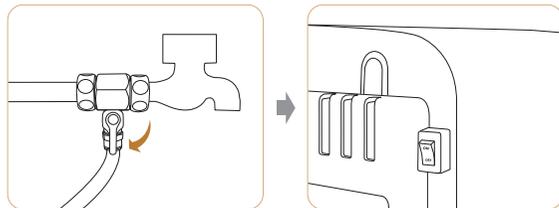
4. Dispense the ice by touching ice dispensing button.
5. Lift the filter and turn to the left and pull it off.



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

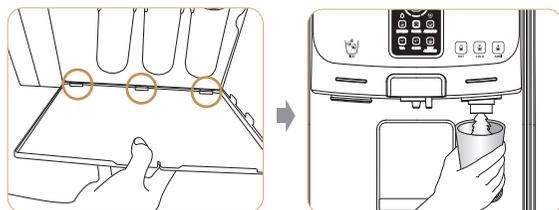
7. Open source water valve.

8. Turn the drain switch on the rear of the unit OFF.



9. Tighten the fixed screws after inserting the right cover properly.

10. Check if cold / ambient water are served after 60 minutes.



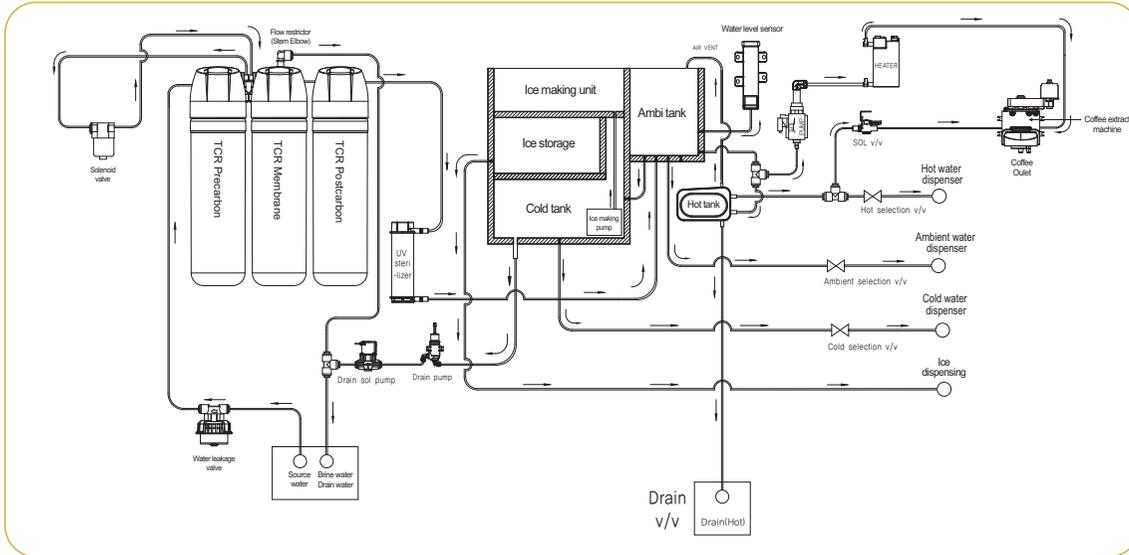
- * Check for water leakage. If it is found, turn off the unit and shut down source water valve.
- * 5 minutes of flushing is necessary before filter replacement.

Specification

Unit name		Whi Caffe-IV (edge)	
Model name		CHP-5350DL	CHP-5351DL
UV sterilizer		X	O
Net weight		24 kg	24.2 kg
Power consumption	Hot water	1,640 W	
	Cold water	104 W	
	Ice making	92 W	
	Deicing	400 W	
	Coffee	1,420 W	
Reservoir capacity	Ambient water	2.4 ℓ	
	Hot/Cold water	0.57 ℓ / 1.6 ℓ	
	Ice	0.52 kg	
Climate class		N class(90°F±1°F)(32°C±1°C)	
Ice making capability (This can differ depending on room temperature)	Room temperature	20 °C	30 °C
	Ice making cycle	15 min ± 1 min / cycle	17 min ± 1 min / cycle
	Daily ice making capacity	5.3 kg/day	4.6 kg/day
	Ice weight	10 g ± 1 g X 6 EA / cycle	
External dimension		290 W X 520 D X 475 H(mm)	
Compressor		Reciprocating type	
Heat radiation type		Wire condenser type (Forced convection)	
Cold water temperature regulation		Thermistor	
Hot water temperature regulation		Thermistor	
Overheating prevention system		Bimetal (Manual return)	
Safety system		Over heating prevention system, Water level detecting system, Water leakage stop valve, Fuse	
Cold water tank water level adjustment		Capacitance sensor	
Power cord		1.6 m	
IP class		IPX1	

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

Flow diagram



* UV-sterilizer is only applied to CHP-5351DL.

Recommended replacement part

No.	Part name	Replacement cycle
1	Tube	3 years
2	Silicon Tube	3 years
3	Solenoid valve	5 years
4	Water level sensor	3 years
5	Fitting	5 years
6	Booster pump	3 years ~ 5 years

* This is not warranty period. This ideal replacement cycle is to make sure that unit works well.

* Replacement cycle is varied depending on environment such as location, water conditions (quality, temperature), amount of water used and seasons (summer, winter).

Troubleshooting

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 even 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.	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 40 minutes.)	Wait until the water level of ambient water tank reaches at operating point for hot and cold water. After given time, if problem still occurs, request follow up service.
When hot water is not hot enough and hot water is not served.(When taking hot water)	Is "HOT" (hot water operation) is on?	Press "HOT SELECTION BUTTON" to start WARM-UP.	Wait until the hot water tank becomes hot enough.
	Have you taken hot water more than 0.5 G (1 ℓ) at a time?	Hot water is being produced. (It takes about 3 minutes.)	Wait until the water level of ambient water tank reaches at operating point for hot and cold water. If problem still occurs, request follow up service.
	Is water in ambient water tank?		
How to maintain a silicon tube?	When a silicon tube is contaminated by using for an extended period of time, request follow up service.		
Americano is not hot enough.	Is "HOT" (hot water operation) is on?	Set "Hot tank heating" (hot water operation)	Wait until the hot water tank becomes hot enough.
	Have you taken hot water more than 1 ℓ at a time?	Hot water is being produced. (It takes about 3 minutes.)	Wait until the water level of ambient water tank reaches at operating point for hot and cold water. After given time, if problem still occurs, request follow up service.
	Is water in ambient water tank?		
Upon pressing "POWER" button for coffee, "Water Drop" LED blinks 2 times and it is turned off.	Have you taken water more than 1 ℓ at a time?	Ambient water is being produced. (It takes about 1 hour.)	After given time, "Water Drop" LED blinks 2 times and it is turned off, then request follow up service.
Coffee is not extracted.	Have you inserted capsule?	Insert coffee capsule and extract.	Request follow up service.
	Have you taken water more than 2 ℓ in a short time?	Request follow-up service.	Wait until the water level of ambient water tank reaches at operating point (It takes about 30 minutes.)

- * After the system power source is interrupted and then again restarted, irregular ice may temporarily be served.
- * Contact our distributor if symptom is not solved.

