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ITALIAN CAPSULE COFFEE

Whi Caffe-Ⅱ

User's manual



CHP - 5340S

- * 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~, 50Hz only.

Unit features

- 1 The World's first water purifier with coffee and ice maker**
Extract function for coffee and tea is applied to allow users to enjoy Italian flavor of coffee and tea.
- 2 All-in-one coffee**
Water with 3 different temperature (hot, cold and ambient), ice and extract function offer various beverages on user's preference.
- 3 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 stay clean by rinsing it with water simply.
- 4 LCD display for coffee extraction status**
This makes users to check Coffee/Tea extraction status on LCD display.
- 5 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.
- 6 Easy and quick extract for Americano**
In case "AMERICANO" button is applied, hot water is added while extracting coffee.
- 7 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)
- 8 Energy Saving Function**
Cold water is made while making ice simultaneously. This allows the system to maintain a constant cold water temperature, prevent water waste and help to conserve energy.
- 9 Water purification system providing an integrated ice making function**
WHI CAFFE- II is an innovative hybrid of a reverse osmosis water purification system with an ice maker which is utilizing the freezing point method. 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.2005-99663, 2005-365293, 200510127096.9, 11/342,117)
- 10 Smart cleaning function**
This makes users not to worry about contamination by bacteria as it empties cold water tank automatically every 15 days in fixed time and fill the clean water.
- 11 Display of abnormal occurrence and reinforced safety function**
The safety features of the unit has 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.

Greetings

We greatly appreciate your purchase of WHI CAFFE- II. 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 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 in detail and please keep it for your future reference.

Safety precautions	03~06
Names of each part	07
Installation cautions	08~09
Installation method	10
How to extract coffee and tea	11~12
Display and coffee extract button	11
Extracting coffee and tea	11
LCD display for coffee extract	12
Using coffee and tea extract method	13~15
Descaling coffee outlet	15
Coffee recipe	16
Operation	17~19
Display and function settings (A)	17
Water dispensing selection (B)	17
Operation beep sound	18
Function setting and releasing	18~19
Usage	20~22
Ice and water dispensing method	21
Draining method for relocation/installation	21
Smart cleaning function	22
Understanding the ice making process and operation	22
Usage safeguards	23
Cleaning	24~26
Water tank	24~25
Ice dispensing spout	26
Capsule holder	26
Coffee outlet packing	26
Drip tray	26
Maintenance	27
Filters	28
Filter function	28
Filter service life	28
Replacement	29
Specification	30
Flow diagram	31
Troubleshooting	32~33
MEMO	34

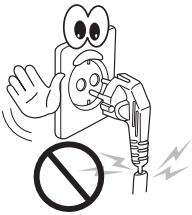
Safety precautions

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

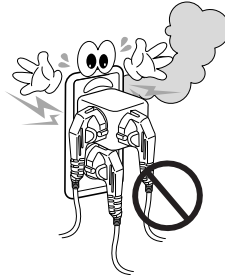


Danger

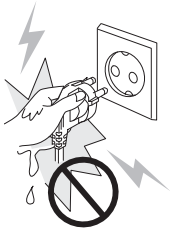
Associated with the possibility for serious injury or death.



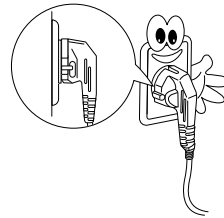
- When the power cord has been damaged, change the power cord in order to prevent danger such as an electric shock, etc.
(Do not use damaged or loose wall outlets. An electric shock or fire may occur.)



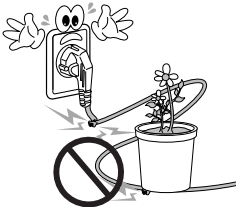
- Keep the cord out of heavy traffic areas.
(This can lead to overheating the outlet.)



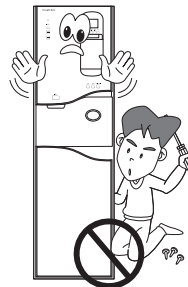
- Leave the unit unplugged, before cleaning the inside of the unit.
(An electric shock or fire may occur.)
- Do not touch the power plug with wet hands.
(An electric shock may occur.)



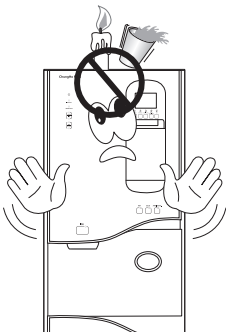
- Insert the plug to the outlet firmly to avoid loosening.
(Unstable connection may cause a fire.)



- 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 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.)

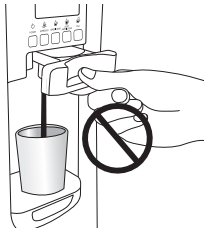


- While coffee is extracting, do not stay close to coffee outlet.
(Coffee splashes and it can cause burns.)

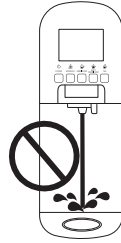
Safety precautions

Caution

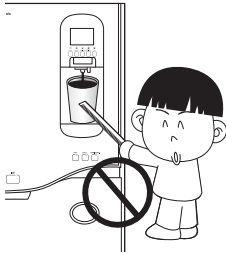
Associated with the possibility of injury, property damage and reduced performance of unit.



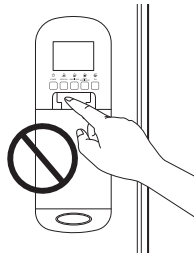
- While coffee is extracting, never try to separate capsule holder.
(Coffee machine can have damage and hot beverage can cause burns.)



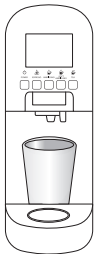
- Do not try to extract coffee or tea without cup.
(Beverage can overflow from drip tray and it can cause burns.)



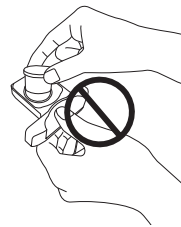
- Close supervision is required when any appliance is used by or near children.



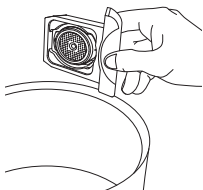
- Do not insert finger to the coffee outlet with capsule holder separated.
(Finger can be injured by being caught.)



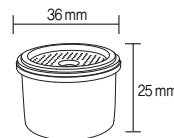
- Make sure that drip tray is properly installed when you extract coffee.
(Hot coffee can spill over.)



- 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.)

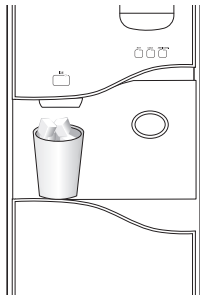


- Use designated capsule size only.
(Do not use other sized capsules. Different size can cause malfunction and burns.)

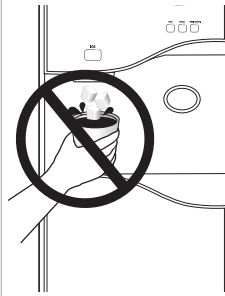
Safety precautions

Caution

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



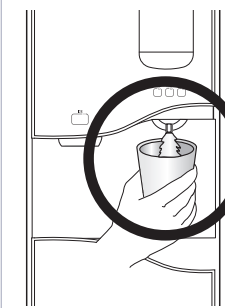
- When taking ice, place a container close to the ice dispensing hole not to drop ice on the floor.
(Be careful in order not to allow containers such as cups, etc. to be inserted into the inside of ice dispensing hole.)



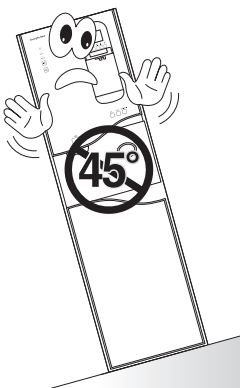
- When taking ice, avoid using a glass cup and avoid taking ice with cup filled with beverage, coffee etc.
(A glass cup can be broken by abrupt temperature change or the ice strike. Beverage and coffee can splash into ice dispensing hole and it can cause mold.)



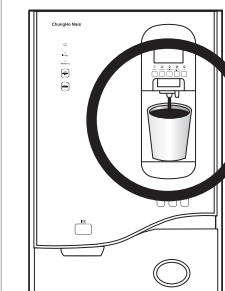
- Do not put foreign materials into the ice dispensing hole or block the dispensing hole.
(This can cause system malfunction.)



- 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 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.)



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



- Do not install the unit in a place where the temperature may drop below 32°F.(0°C)
(Some pieces of ice can cling to each other. Ice may not be served well.)

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

* Children should be supervised to ensure that they do not play with the appliance.

Safety precautions



Caution

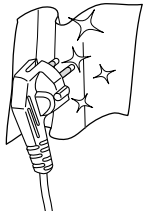
Associated with the possibility of injury, property damage and reduced performance of unit.



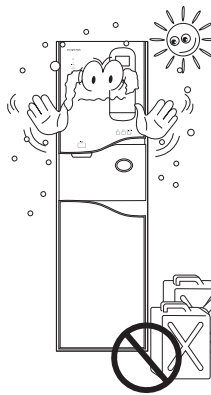
- After installation, arrange the power cord so that it will not be stepped on or stepped over.



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



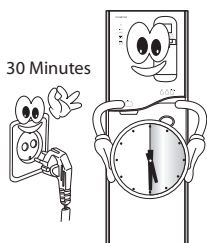
- If there is dust, water or etc on the power plug pin, wipe it off well.
(There is a danger of an electric shock or fire.)



- 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 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.



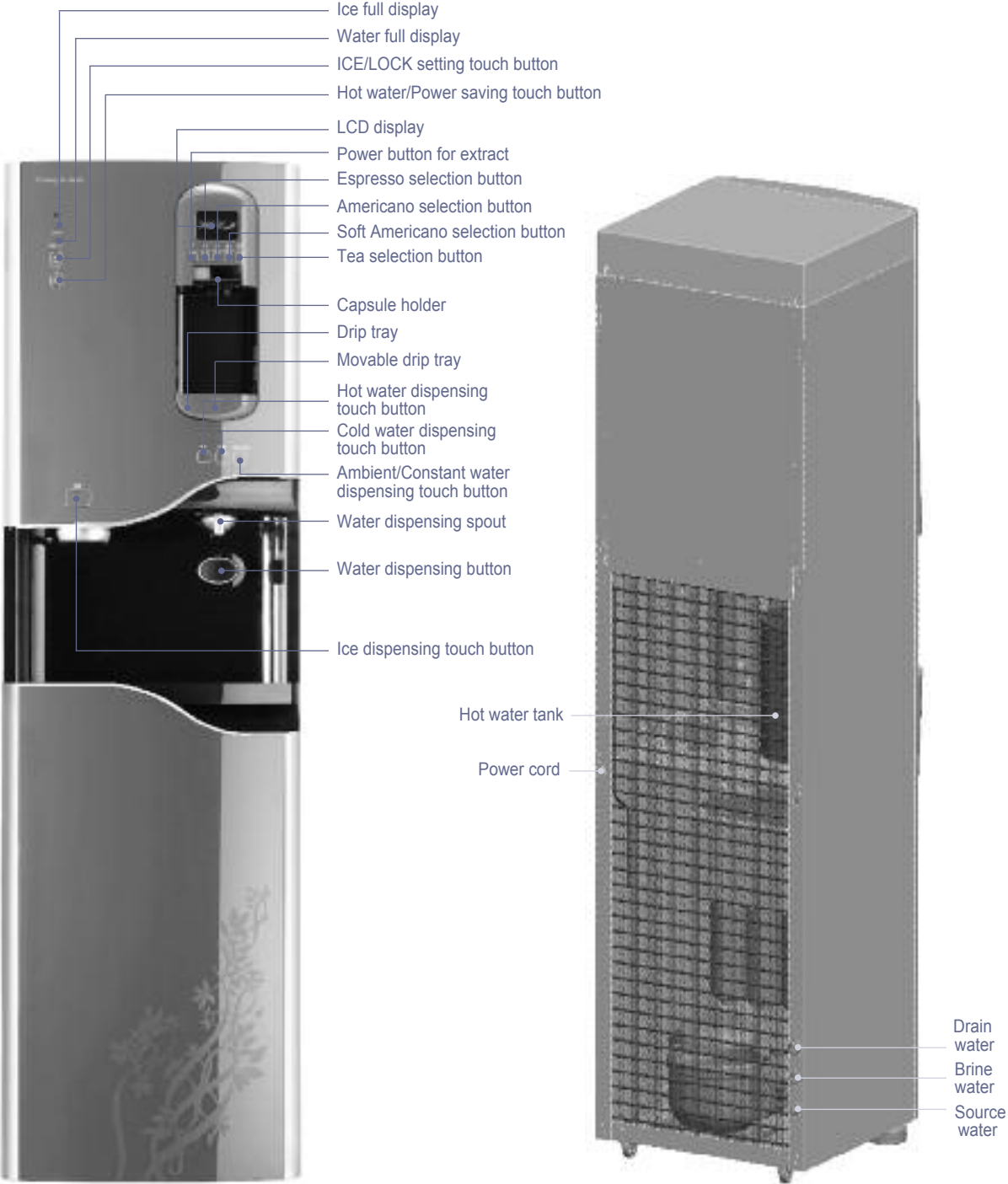
- After transporting the unit, do not supply the power for at least 30 minutes to stabilize the unit.

- Keep tubes fixed properly so as not to splash around area with water from brine and drain 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 unition process or ice unition 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
 - 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).
- * When the unit is installed in a dark place while "ECONO" is on, hot water may not operate even during daytime due to lack of light. (Please install it in a brighter location.)



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

- * Severe tilting can cause performance degradation.

3 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.

- * Tilting can cause performance degradation.



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

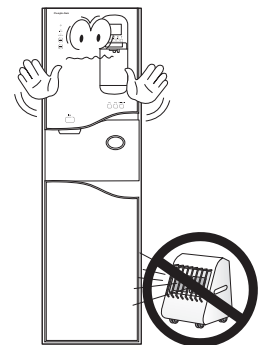
- * If not, performance degradation and malfunction can occur.

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

6 Use the following water quality range.

- Water pressure : 0.5~7 kgf/cm² (50~686 kPa)
- Water temperature : 39~100 °F(4~38 °C)
- pH: 5.8~8.5
- Water hardness : 300 ppm or less
- Evaporated residue: 500ppm 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.



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

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

Installation cautions

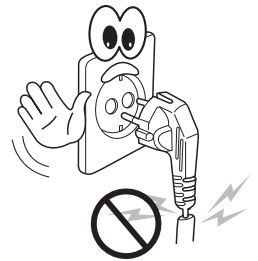
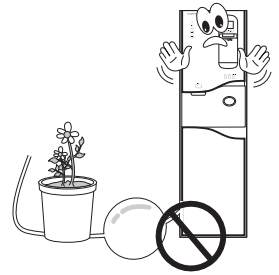
- 8 When connecting tube, ensure that the tube is not bent or pressed down by heavy objects, etc.
- * If tube is bent or pressed, water does not flow well and can cause problems.

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

- 11 A bad wall outlet or plug may cause an electric shock or fire.

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



Caution before transporting the unit

1. Put the drain switch on after detaching front lower cover.
 2. Open the drain valve in the middle of the unit and drain the Ambi. and hot water in the tank completely.
 3. Empty cold water and ice by touching dispensing button. If there is no other option but to transport the unit in an inclined position, convey the unit on the back. (Refer to the 21 page.)
- * When moving the unit in an inclined position with water not completely drained, the water inside the tank may come out while moving the unit. This may damage the unit.

Installation method

1 Install horizontally.

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

* If a sealing rubber(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 drain and brine on the back of the unit. And then, connect tubes to drain hole such as sink, toilet etc..

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

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

* Brine water or drain water can easily be used for other purposes, such as bathroom cleaning, house cleaning, laundering, washing, etc.

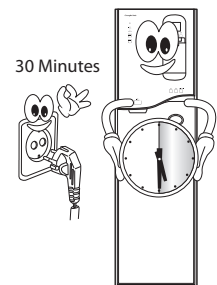
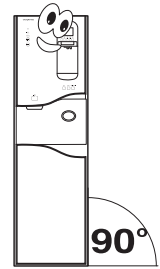
6 Turn on water supply valve connected to the house and position the adapter (source water valve) "OPEN".

7 Check every connection part for leaks.

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

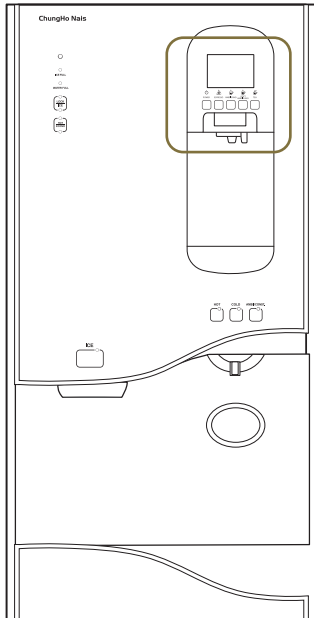
9 Check if water is supplied into the unit properly and there are any leakages on every connection.











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













How to extract coffee and tea

Display and coffee extract button



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

Extracting coffee and tea

 POWER 	<p>■ Power button Press "POWER" to turn on the heater before extracting Espresso/Americano/Soft Americano/Tea. 'HEATING' is indicated on the LCD display and it starts water heating for coffee extract.</p>
 ESPRESSO 	<p>■ Espresso Press "ESPRESSO" to extract the coffee after inserting the coffee capsule. Press "ESPRESSO" again to release this function.</p>
 AMERICANO 	<p>■ Americano Press "AMERICANO" to extract the coffee after inserting the coffee capsule. Press "AMERICANO" again to release this function.</p>
 SOFT AMERICANO 	<p>■ 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 230ml) for Soft Americano extract.</p>
 TEA 	<p>■ Tea Press "TEA" to extract the tea after inserting the tea capsule. Press "TEA" again to release this function.</p>

* Refer to the detailed method of use on 13~14 page.

LCD display for coffee extract

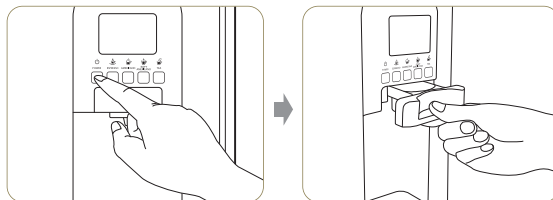
LCD display for coffee extract

Display status	LCD display
HEATING	
Heating completion (Standby)	
Heating needed	
Espresso extract	
Americano extract	
Soft Americano extract	
Tea extract	
No capsule	
Not enough water	
CLEANING	

Using coffee and tea extract method

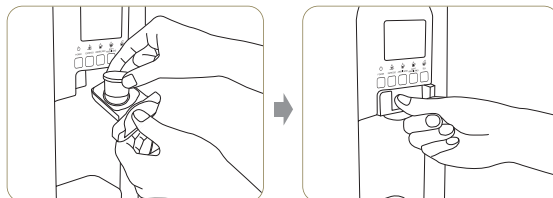
1. Press "POWER".

* After heating completion, 'Heating completion' is indicated on the LCD display with beep sound.
(Sound : Ding-Ding-Ding)



2. Pull out capsule holder.

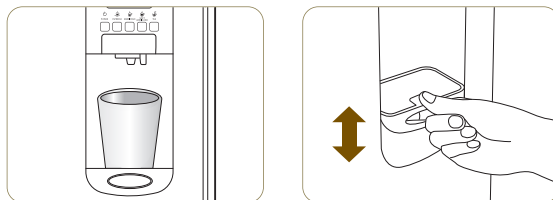
3. Insert the coffee or tea capsule to the holder and push it.



4. Put the cup on the drip tray.

* Drip tray can be adjustable as 3 heights. Adjust the height of drip tray by pressing button in the middle of drip tray when using paper cup or small cup.

* Coffee in 6.5 oz(180 ml) sized cup can spill over when user extract Soft Americano and be careful of burns when you holding the cup. Use big sized mug or paper cup bigger than 8 oz(230 ml).

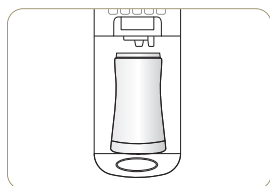


How to use drip tray

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

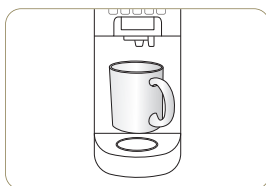
<Low>

For low height of tumbler or big sized mug



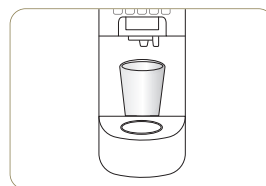
<Middle>

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



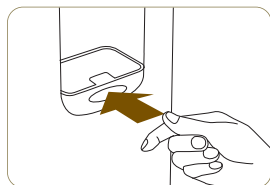
<High>

For general sized paper cup

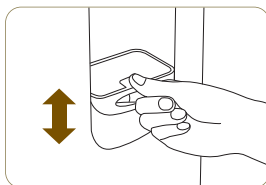


• How to adjust height of drip tray

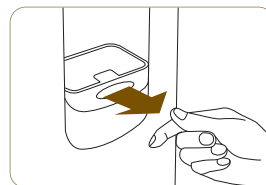
1. Press button in the middle of drip tray



2. Adjust height by pressing button



3. Drip tray is fixed with clicking sound when detaching a hand from the drip tray



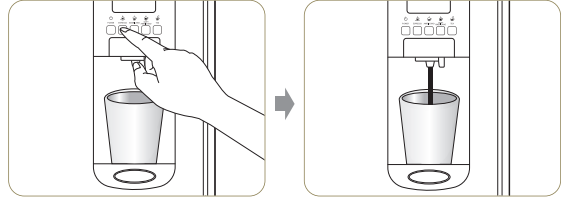
* Check if drip tray is fixed by moving it up and down without pressing button.

* To clean drip tray, separate it by pressing button upside until the end.

Using coffee and tea extract method

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

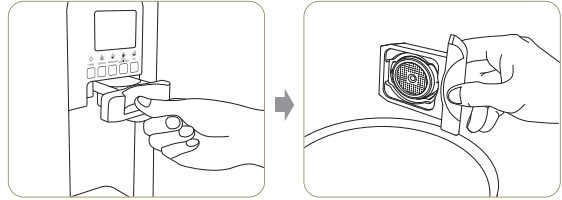
* Be careful of coffee overflow if users press unsuitable button for coffee extract.



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-Ding)

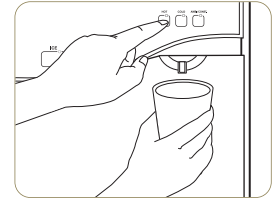


8. Remove capsule and water in capsule holder.

* Extracting can generate small amount of water in capsule holder under 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 230ml) when extracting Soft Americano.

Using coffee and tea extract method

Button	Recommended capsule	Extracting time	Extract Amount
ESPRESSO	Arabica 100	30 seconds	About 40 ~ 50 ml
	Morning		
	Lunch		
AMERICANO	Arabica 100	30 seconds	About 120 ~ 130 ml
	Morning		
	Lunch		
SOFT AMERICANO	Arabica 100	30~35 seconds	About 160 ~ 170 ml
	Morning		
	Lunch		
TEA	TEA	25 seconds	About 70 ~ 140 ml

* The most proper temperature for enjoying the taste and aroma of coffee is 149 °F ~ 158 °F(65 °C ~ 70 °C).
 In case of our coffee capsule, user(s) can taste the most full of flavor between 167 °F ~ 176 °F(75 °C ~ 80 °C).

Descaling coffee outlet

1. Press "POWER" to turn off.
2. Do not insert the coffee/tea capsule.
3. Place big-sized cup prepared for high pressured water.
4. Press "ESPRESSO" for 5 seconds.
5. Hot and ambient water come out for 12 seconds to clean up the coffee outlet.



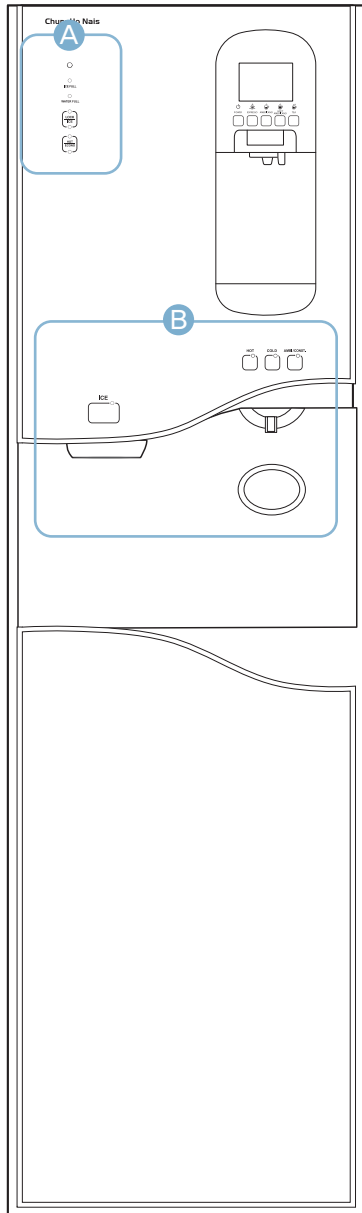
* Make sure that capsule holder is empty for cleaning.

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 sauce(15 ml)</p> <ol style="list-style-type: none"> 1. Put the chocolate sauce in the glass. 2. Pour the espresso to melt the chocolate sauce. 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 cimanom, nuts or syrup.

Operation



Display and function settings (A)

	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 "ECONO" is on.)
	ICE FULL LED	Lights up when ice storage is full. (Yellow-green)
	WATER FULL LED	Lights up when ambient water tank is full. (Yellow-green)
	ICE/LOCK	Setting/Releasing "LOCK" or "ICE".
	ICE LED	Lights up when "ICE" is set. (Red)
	LOCK LED	Lights up when "LOCK" is set. (Red)
	HOT/ECONO	Setting/Releasing "HOT" or "ECONO".
	HOT LED	Lights up when "HOT" is set. (Red)
	ECONO LED	Lights up when "ECONO" is set. (Red)

Water dispensing selection (B)

	HOT(HOT WATER SELECTION)	Used to take hot water.
	HOT LED(HOT WATER SELECTION LED)	Displays hot water selection. (Red)
	COLD(COLD WATER SELECTION)	Used to take cold water.
	COLD LED(COLD WATER SELECTION LED)	Displays cold water selection. (Blue)
	AMBI/CONST	Used to select "AMBI" or "CONST"
	AMBI LED(AMBIENT WATER SELECTION LED)	Displays ambient water selection. (Yellow-Green)
	CONST LED(CONSTANT WATER SELECTION LED)	Displays constant water selection. (Yellow-Green blinking)
	WATER DISPENSING BUTTON	Used to take water into a container such as a cup after selecting the desired water selection among hot, cold and ambient water.
	ICE(ICE DISPENSER)	Used to take ice.

Operation

Operation beep sound

* A beep sound following operation of the Whi cafe-II

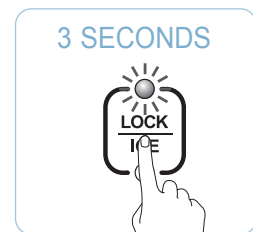
	Section	BEEP	Remarks/Occurrence
1	Power ON	Ding~Dong~Daeng~	Once
2	Key input	Ding~	Once
3	ICE/LOCK setting	Ding~Ding~Ding~	Once
4	Water dispensing start	Ding~	Once
5	Water dispensing ending	Dong~	Once
6	Overflow	Ding~Ding~Ding~Ding~	1 second interval
7	Constant water dispensing start/ending	DingDong~DingDong~	Once

Function setting and releasing

■ 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. A hot water operation, hot water dispensing button, ice dispensing function and "HOT/ECONO" selection button do not work after the lock function is set.

* LOCK is designed to avoid any accidental burns or spout of ice cube due to carelessness.

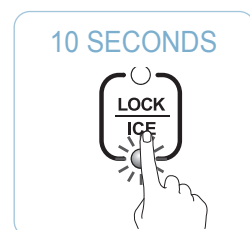


■ Lock Function Releasing

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. A hot water operation, hot water dispensing selection, the ice dispensing function and "HOT/ECONO" selection button work when the setting of lock function is released.

■ Ice-making function setting

1. Press "ICE/LOCK" touch button for 10 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 10 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 10 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.

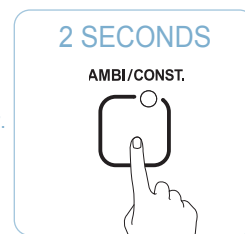
Operation

■ Constant water function setting

1. Press "AMBI/CONST. SELECTION BUTTON" for 2 seconds to take ambient water.
2. Ambient water is served for 60 seconds as AMBI/CONST. LED is blinking.
 - * Constant water is set, no water is taken, the function is released after 10 seconds automatically.
 - * Only ambient water is served as constant water function.

■ Constant water function releasing

During constant water dispensing, one of the buttons between "AMBI/CONST." and "WATER DISPENSING BUTTON" is pressed, the function is released.
(“AMBI/CONST.” LED is off when it is released.)



Usage

- HOT/ECONO function is available only when LOCK is released.

■ Hot water operation setting

1. Press "HOT/ECONO" for 2 seconds.
2. Press the button until "HOT" LED(Red) is turned on.
3. Hot water operation works as turning on "HOT" LED(RED).
 - * Hot water system is operated by a detection sensor which automatically detects the temperature inside of the hot water tank.

■ Hot water operation releasing

1. Press "HOT/ECONO" for 2 seconds.
2. Press the button until "HOT" LED(Red) is turned off.
3. Hot water operation stops working as turning off "HOT" LED.

■ Power saving function setting

1. Press "HOT/ECONO" for 2 seconds.
2. Press the button until "ECONO" LED(Red) is turned on.
3. Power saving function starts working as turning on "ECONO" LED(RED).
 - * 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 "HOT/ECONO" for 2 seconds.
2. Press the button until "ECONO" LED(Red) is turned off.
3. Power saving function stops working as turning off "ECONO" LED.

• Cautions for use of power saving function

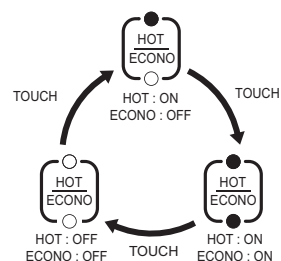
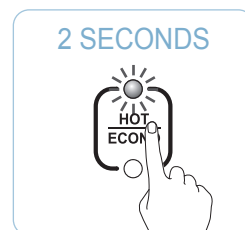
If power saving function is selected, the hot water system is automatically turned on/off according to brightness around the unit. So, hot water cannot be immediately served after it becomes bright again around the unit. Therefore, do not use the power saving function in order to use hot water all the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

■ Beep function releasing

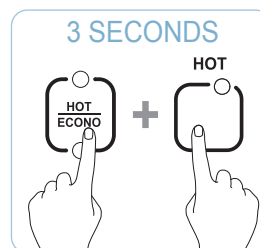
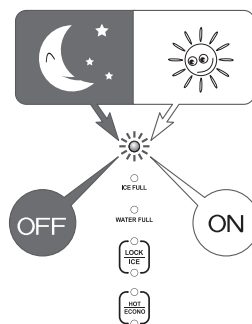
1. Press "HOT/ECONO" and "HOT" touch button simultaneously for 3 seconds.
2. Beep sound is released. (Releasing sound: Ding~Ding~Ding~Ding~Ding)
3. LED of "ICE/LOCK" and "HOT/ECONO" flickers 5 times by 1 second interval.

■ Beep function resetting

1. Press "HOT/ECONO." and "HOT" touch button simultaneously for 3 seconds.
2. Beep sound is set. (Setting sound: Ding~Ding~Ding~Ding~Ding)
3. LED of "ICE/LOCK" and "HOT/ECONO" flickers 5 times by 1 second interval.



- Press "HOT/ECONO" touch button for 2 seconds for setting change.
- It is set in turn when "HOT/ECONO" touch button is pressed.
- If it is under setting change and button is not pressed for 10 seconds, setting change will be completed and button will automatically be locked.

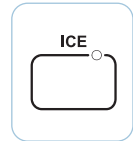


Usage

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.

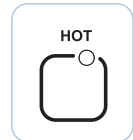


■ Hot water dispensing mode

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

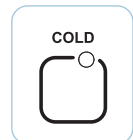
* If "LOCK" function (Ice and hot water dispensing lock) is set, hot water is not served. Use it after releasing the lock function.

* If hot water operation LED is turned off, hot water is not served as the heater does not work.



■ 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 hot water or ambient water is selected and it is not used for a given time, the system will automatically switch into cold water dispensing mode. (Default function)

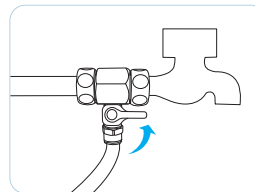
* There is not separate setting and releasing method for the use of ambient water and cold water.

* They operate automatically as designated by the program when the power is supplied.

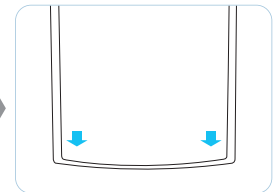


Draining method for relocation/installation

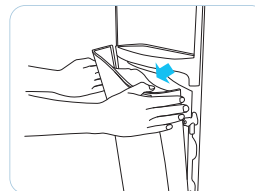
1. This is performed with the power cord plugged in and shut off the source water.



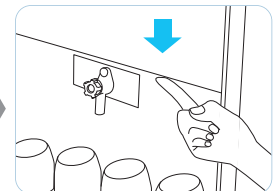
2. Loosen screws (2ea) beneath of the lower front cover.



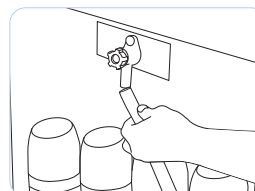
3. Hold the lower front panel as pressing down and pull it frontward.



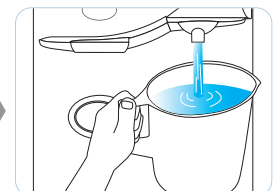
4. Turn the drain switch ON inside of the unit.



5. Open drain valve to drain hot, ambient water completely and close drain valve.



6. Drain cold water from water dispensing spout.



7. Take out every ice by pressing ice dispensing button.

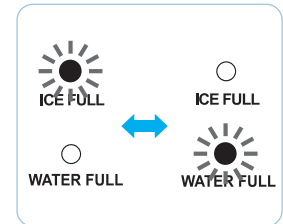
* If there is no other option but to transport the unit in an inclined position, convey the unit on the back.

Usage

Smart cleaning function

It is the smart cleaning function that prevents contamination by automatically cleaning the tank every 15 days, when frequency of use is low.

- It operates same time every 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 15 days. If users want to change the operation time, turn off the power at desired time and turn on.
1. When smart cleaning function is operating, "ICE FULL/WATER FULL" LED blinks by turns around 7 minutes and users cannot use the unit at this time.
 2. Use the unit when the smart cleaning function is finished and cold water tank are filled again. (Around 30 minutes until water full.)
 - * Press "COLD" touch button for 10 seconds to operate smart cleaning function. Smart cleaning function is released when it is pressed for 10 seconds again.



Understanding the ice making process and operation

- Ice making system of the unit starts and operates to make ice automatically according to program set after power is ON.
1. When the water level in the ambient water tank reaches to specific level, it starts to remove all the remaining ice on the evaporator. This action is done when power is newly supplied to the unit.
 2. The compressor and ice making pump operate in order to make cold water.
(The cold water unit process automatically operates according to designated programming.)
 - Cold water operation: Cold water is made by process of spraying water to evaporator. Water temperature in the cold water tank is automatically detected by the sensor, and if it drops below the set temperature, then the cold water operation will automatically stop.
 3. If cold water unit is done, ice making get started in accordance with the process of ice forming and ice harvesting action.
 - Ice forming action: Spray cold water to the evaporator for given time.
 - Ice harvesting action: Supply heat to the evaporator to remove ice from the evaporator.
 4. When the ice storage is full, the ice level sensor automatically sends the signal to stop ice making process.
 5. If ice in the storage is not used for long periods of time, it may melt and small pieces of ice can be served during ice dispensing.
 - * TDS(Total Dissolved Solid) of ice may increase slightly according to the environment in which the ice is made.
- The lower room temperature is, the shorter the ice making process will take and the higher room temperature is, the longer the ice making process will do.
 - Do not install or use the unit in temperatures below 32°F(0°C) or above 104°F(40°C).

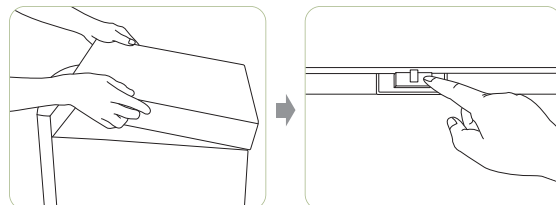
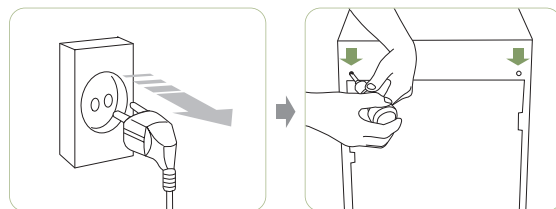
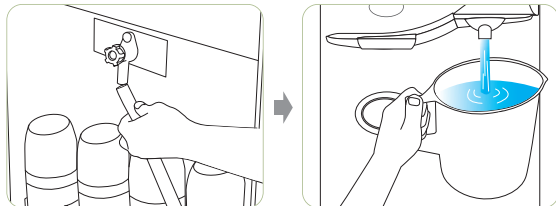
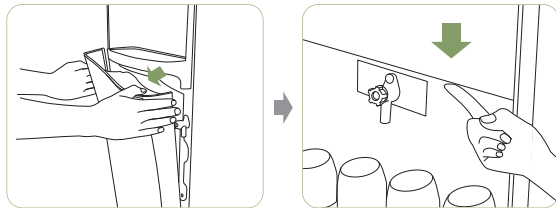
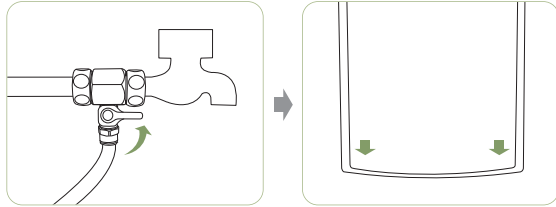
Usage safeguards

- 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 touch the wire condenser on the rear side of unit. It is hot while the unit is in operation.
- 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. 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.)
- 7 Make sure that lid of water tank is closed perfectly.
(Improper alignment may allow pollutants and other insects to enter the water tank.)
- 8 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.)
- 9 If the unit does not respond to the touch buttons, broaden the contact area where the touch button is pressed.
- 10 When extracting the coffee, use the container to prevent burns from the extracted coffee.
- 11 When taking ice, avoid using a glass cup and using container with coffee or beverage etc full.
(A glass cup can be broken by abrupt temperature change or the ice strike. And coffee and beverage etc can make dispensing hole contaminated.)
- 12 When ice dispensing hole is splashed with foreign substance such as coffee, beverage etc, clean up immediately. Cleaning is recommended once a week.
- 13 The detachable cap on ice dispensing deco is recommended to clean up once a week.
- 14 You can always reuse quality ice by placing the ice in a separate storage vessel and storing it in the refrigerator / freezer.
- 15 Even though ice is not served upon pressing the "ICE" touch button, do not shake or hit the unit.
(It may cause malfunction. Use the ice after it is produced in ice storage.)
- 16 Ice may not be served when some pieces of ice get stuck at dispensing hole.
(Remove ice with an object such as a stick which is insulated.)
- 17 If you do not use ice for many hours, ice may not be served well because ice may cling to each other. In such case, press "ICE" touch button three or four times for 2~3 seconds.
- 18 In case the unit is not used for an extended period of time or initial use, it can take some time to take ice. Wait for a while as pressing ice dispensing button.
- 19 In case the unit is not used for long period of time (More than 4days), 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.)
- 20 If the unit is used again, drain the water inside completely and drain the newly purified water again and use it. In case abnormal sound, smell and smoke occur, contact our distributor.

Cleaning

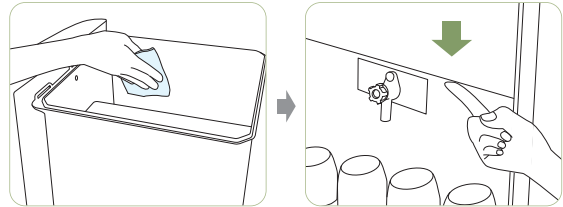
Water tank

1. Shut off the source water valve.
2. Loosen screws (2ea) beneath of the lower front cover.
3. Hold the lower front panel as pressing down and pull it forward.
4. Turn the drain switch ON inside of the unit.
5. Open drain valve to drain hot, ambient water completely and close drain valve.
6. Drain cold water from water dispensing spout.
7. Plug out.
8. Loosen screws (2ea) on the rear of the unit.
9. Detach top cover.
10. Open tank cover by placing button open.



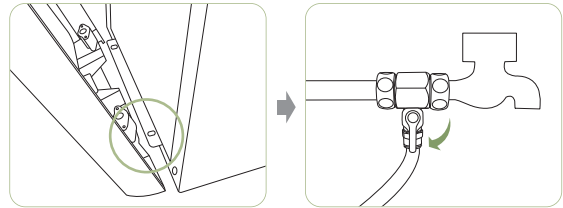
Cleaning

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



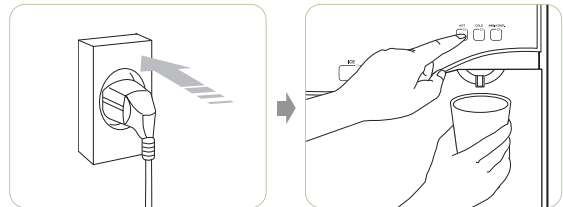
12. Turn the drain switch OFF inside of the unit.

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



14. Open source water valve.

15. Plug in.



16. Check if hot, cold and ambient water are served after 60 minutes.

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

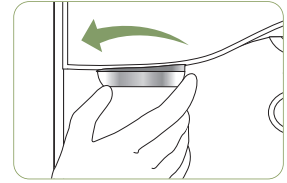
Check Point

- * 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.

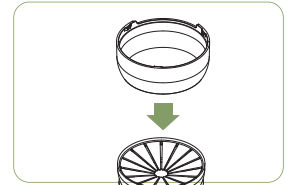
Cleaning

Ice dispensing spout

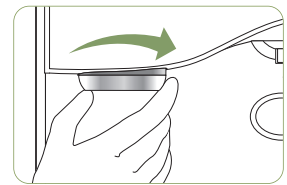
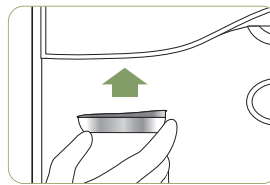
1. Turn the spout to the left to disconnect it from the body.



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

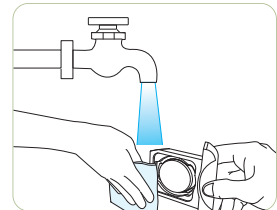


3. After cleaning, put the rubber cap back into ice dispensing spout and put it back by turning to the right.



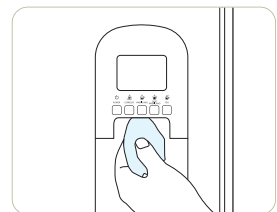
Capsule holder

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



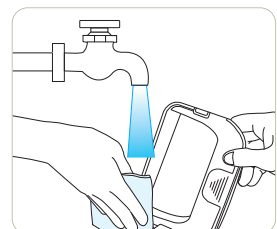
Coffee outlet packing

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.

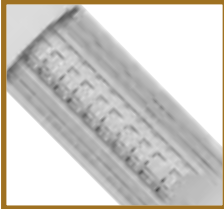


Maintenance

Section		Details
Installation	Location	- The unit can be installed 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 (Water purifier)	- Do not throw away any liquid except water.
Drip tray (Coffee maker)	- If there is the water, throw it away and clean up once a week.	
Checkup	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 15 days to prevent scale.
	Unit without ACS	- In case the unit is not used for long period time more than 4 days, empty water in the tank completely to let new water come in and empty water again to take fresh water. - Empty water tank every month and clean up with soft cloth or dry cleaner. - Regular cleaning is necessary to prevent scale buildup.
Coffee outlet	Capsule holder	- Separate the capsule holder to clean up every day.
	Descaling	- Descale once(Refer to page 15) before extracting the coffee.

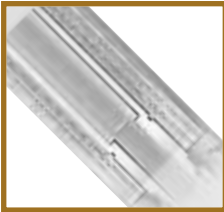
Fliters

Filter function



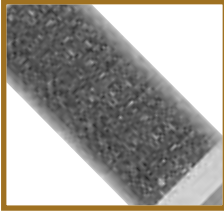
T-Pre-carbon filter

It is made from high temperature processed carbon. it absorbs and eliminates dissolved pollutants(such as chlorine, THMs and organic chemical contaminants), so it protects the membrane filter and helps it function work properly.



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



T-Post-carbon filter

It removes dissolved gases and odors to improve water taste.

Filter service life

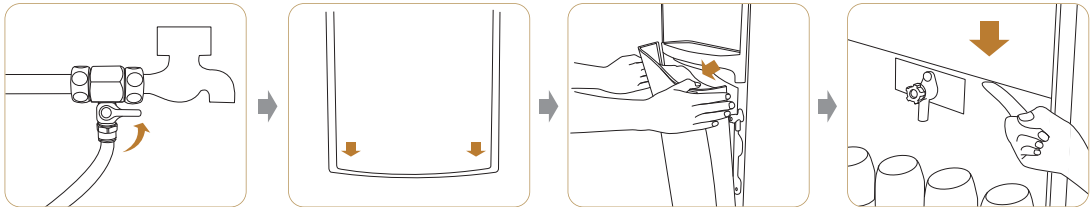
Filter	Replacement cycle
T-Pre-carbon filter	About 6 months
T-Membrane filter	24 months
T-Post-carbon filter	18 months

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

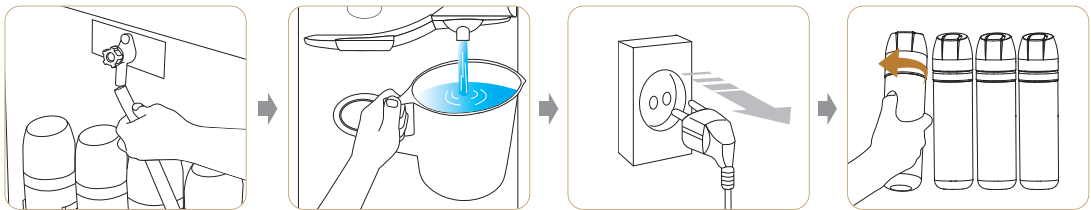
*You can take clean water by replacing filters according to the recommended filter service life.

Replacement

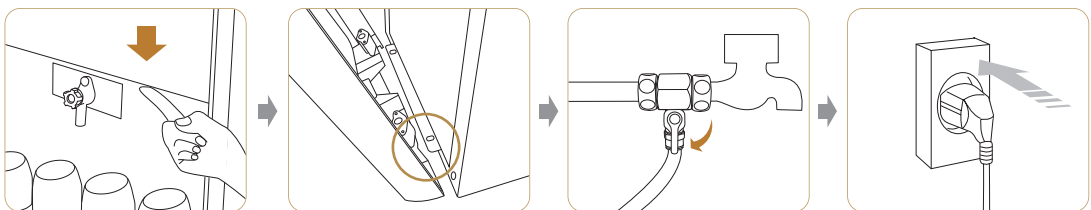
1. Shut off the source water valve and loosen screws(2 ea) beneath of the lower front cover to separate the lower front cover.
2. Turn the drain switch ON inside of the unit.



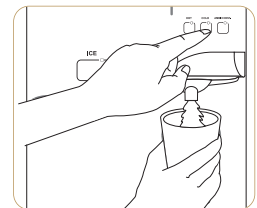
3. Open drain valve to drain hot, ambient water completely and close drain valve and drain cold water from water dispensing spout.
4. Plug out.
5. Lift the filter and turn to the left and pull it off.
6. Turn the filter to the right side to make straight line on replacement filter and standard point of filter head and line (i).



7. Turn the drain switch OFF inside of the unit.
8. Insert the lower front cover properly and then assemble in a reverse way.
9. Open source water valve.
10. Plug in.



11. Check if hot / cold / ambient water are served after 30 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 Caffè-Ⅱ	
Model name		CHP-5340S	
Rated voltage		Refer to the front page	
External dimension		16.9W x 19.5D x 58.6H (inch) (430W x 497D x 1490H (mm))	
Power consumption	Hot water	500 W	
	Cold water	1 A(200 W)	
	Ice making	1 A(220 W)	
	Coffee	1,300 W	
Reservoir capacity	Ambient water	16.9ℓ	
	Hot water	4.6 ℓ	
	Cold water	4.7 ℓ	
	Ice	4.0 kg	
Weather class		N class(90 °F±1 °F)(32 °C± 1 °C)	
Ice making capability (This can differ depending on room temperature)	Room temperature	68 °F (20 °C)	30 °C
	Ice making cycle	12±1min / cycle	13±1min / cycle
	Daily ice making capacity	19 kg/day	17 kg/day
	Ice weight	13g±1 g X12ea /cycle	
Heat radiation type		WIRE CONDENSER TYPE(Natural convection)	
Cold water temperature regulation		THERMISTOR	
Hot water temperature regulation		THERMISTOR	
Overheating prevention system		Bimetal (Manual return)	
Safety system		Overheating prevention system, Water level detecting system Leakage stop valve	
Cold water tank water level adjustment		Capacitance sensor	
Power cord		1.9 m	
Net weight		54.9 kg	
IP class		IPX1	

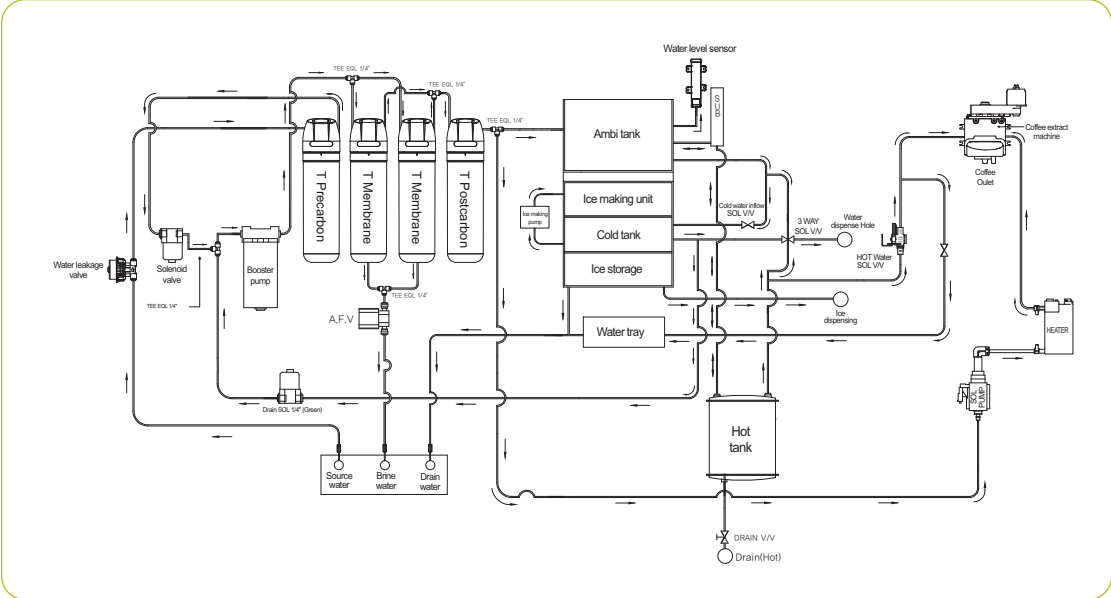
* "N class" indicates temperate climate.

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

* Reservoir capacity can be different from indicated capacity.

Flow diagram

Flow diagram



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 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. After giventime, 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?	Set "HOT" (hot water operation) by touching "HOT/ECONO" touch button.	Wait until the hot water tank becomes hot enough.
	Have you taken hot water more than 0.5G (2ℓ) 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. if problem still occurs, request follow-up service.
	Is water in ambient water tank?		
Irregular ice is served	Is it first dispensing after power failure?	When "ICE" is not used for a long time, ice may melt. press "ICE" (ICE dispenser) touch button twice or three times for 2~3 seconds.	After a power failure, the system starts to discharge ice cubes first for safety precaution. Irregular ice may be served.
How to maintain a silicon tube?	When a silicon tube is contaminated by using for an extended period of time Request follow-up service.		

Troubleshooting

Symptoms	Check points	No	Yes
Americano is not hot enough.	Is "HOT" (hot water operation) is on?	Set "HOT"(hot water operation) by touching "HOT/ECONO" touch button.	Wait until the hot water tank becomes hot enough.
	Have you taken hot water more than 0.5G (2ℓ) 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. After given time, if problem still occurs, request follow-up service.
	Is water in ambient water tank?		
Upon pressing "POWER", "WATER FULL" blinks 2 times and turn off.	Have you taken hot water more than 0.5G (2ℓ)?	Ambient water is being produced. (It takes about 1 hour.)	After given time, "WATER FULL" LED blinks 2 times and turn 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 ambient/cold water more than 1G (4ℓ) in a short time?	Request follow-up service.	Wait until the water level of ambient water tank reaches at operating point (It takes about 20 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.

