ENGLISH

РУССКИЙ ЯЗЫК

OWNER'S MANUAL

AIR CONDITIONER

Please read this manual carefully before operating your set and retain it for future reference.

Hydro Kit (For High Temperature)
Original instruction

P/NO : MFL67870237

001

www.lg.com

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FOR YOUR RECORDS

Write the model and serial numbers here:

Model #

Serial #

You can find them on a label on the side of each unit.

Installer's Name

Purchased Date

■ Staple your receipt to this page in the event you need it to prove date of purchase or for warranty issues.

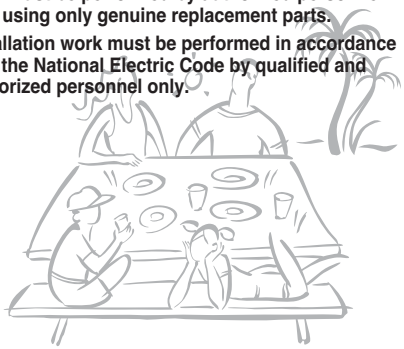
READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your **Hydro Kit** properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your product.

You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of **Troubleshooting Tips** first, you may not need to call for service at all.

PRECAUTION

- **Contact the authorized service technician for repair or maintenance of this unit.**
- **Contact the installer for installation of this unit.**
- **Hydro Kit is not intended for use by young children or invalids without supervision.**
- **Young children should be supervised to ensure that they do not play with Hydro Kit.**
- **When the power cable is to be replaced, replacement work must be performed by authorized personnel only using only genuine replacement parts.**
- **Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.**



Safety Precautions

To prevent injury to the user or other people and property damage, the following instructions must be followed.

■ Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

⚠ **WARNING**	This symbol indicates the possibility of death or serious injury.
⚠ **CAUTION**	This symbol indicates the possibility of injury or damage.

⚠ WARNING

Always ground the product.

• There is a risk of electric shock.

Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.

• There is risk of fire or electric shock.

Do not use a multi outlet. Always use this appliance on a dedicated circuit and breaker.

• It can cause electric shock or fire.

For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center. Do not disassemble or repair the product by yourself.

• There is risk of fire or electric shock.

Always ground the product as per the wiring diagram. Do not connect the ground wire to gas or water pipes lightening rod or telephone ground wire.

• There is risk of fire or electric shock.

Install the panel and the cover of control box securely.

• There is risk of fire or electric shock due to dust , water etc.

Use the correctly rated breaker or fuse.

• There is risk of fire or electric shock.

Do not modify or extend the power cable. If the power cable or cord has scratches or skin peeled off or deteriorated then it must be replaced.

• There is risk of fire or electric shock.

For installation, removal or reinstallation , always contact the dealer or an Authorized Service Center.

• There is risk of fire, electric shock, explosion, or injury.

Do not install the product on a defective installation stand. Be sure that the installation area does not deteriorate with age.

• It may cause product to fall.

Never install the outdoor unit on a moving base or a place from where it can fall down.

• The falling outdoor unit can cause damage or injury or even death of a person.

When the product is soaked (flooded or submerged) in water , contact an Authorized Service Center for repair before using it again.

• There is risk of fire or electric shock.

Be sure to check the refrigerant to be used. Please read the label on the product.

• Incorrect refrigerant can prevent the normal operation of the unit.

Don't use a power cord, a plug or a loose socket which is damaged.

• Otherwise it may cause a fire or electrical shock.

Do not touch , operate, or repair the product with wet hands.

• There is risk of electric shock or fire.

Do not place a heater or other heating appliances near the power cable.

- There is risk of fire and electric shock.

Do not allow water to run into electric parts. Install the unit away from water sources.

- There is risk of fire, failure of the product, or electric shock.

Do not store or use or even allow flammable gas or combustibles near the product.

- There is risk of fire.

Indoor/outdoor wiring connections must be secured tightly and the cable should be routed properly so that there is no force pulling the cable from the connection terminals.

- Improper or loose connections can cause heat generation or fire.

Safely dispose off the packing materials. Like screws, nails, batteries, broken things etc after installation or service and then tear away and throw away the plastic packaging bags.

- Children may play with them and cause injury.

Make sure to check that the power device is not dirty, loose or broken and then Turn on the power.

- Dirty, loose or broken power device can cause electric shock or fire.

In outdoor unit the step-up capacitor supplies high voltage electricity to the electrical components. Be sure to discharge the capacitor completely before conducting the repair work.

- An charged capacitor can cause electrical shock.

When installing the unit, use the installation kit provided with the product.

- Otherwise the unit may fall and cause severe injury.

Be sure to use only those parts which are listed in the service parts list. Never attempt to modify the equipment.

- The use of inappropriate parts can cause an electrical shock, excessive heat generation or fire.

Do not use the product in a tightly closed space for a long time. Perform ventilation regularly.

- Oxygen deficiency could occur and hence harm your health.

Do not open the front cover or grille of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)

- There is risk of physical injury, electric shock, or product failure.

If strange sounds, smell or smoke comes from product, immediately turn the breaker off or disconnect the power supply cable.

- There is risk of electric shock or fire.

Ventilate the product room from time to time when operating it together with a stove, or heating element etc.

- Oxygen deficiency can occur and hence harm your health.

Turn the main power off when cleaning or repairing the product.

- There is risk of electric shock.

Take care to ensure that nobody especially kids could step on or fall onto the outdoor unit.

- This could result in personal injury and product damage.

Take care to ensure that power cable could not be pulled out or damaged during operation.

- There is risk of fire or electric shock.

Do not place ANYTHING on the power cable.

- There is risk of fire or electric shock.

When flammable gas leaks, turn off the gas and open a window for ventilation before turning the product on.

- Do not use the telephone or turn switches on or off. There is risk of explosion or fire.

⚠CAUTION

Two or more people must lift and transport the product.

• Avoid personal injury.

Do not install the product where it will be exposed to sea wind (salt spray) directly.

• It may cause corrosion on the product.

Keep level even when installing the product.

• To avoid vibration or noise.

Do not install the product where the noise or hot air from the outdoor unit could damage or disturb the neighborhoods.

• It may cause a problem for your neighbors and hence dispute.

Always check for gas (refrigerant) leakage after installation or repair of product.

• Low refrigerant levels may cause failure of product.

Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer Hydro Kit, not a precision refrigeration system.

• There is risk of damage or loss of property.

Do not block the inlet or outlet of air flow.

• It may cause product failure.

Use a soft cloth to clean. Do not use harsh detergents, solvents or splashing water etc .

• There is risk of fire, electric shock, or damage to the plastic parts of the product.

Do not step on or put anyting on the product. (outdoor units)

• There is risk of personal injury and failure of product.

Do not insert hands or other objects through the air inlet or outlet while the product is operating.

• There are sharp and moving parts that could cause personal injury.

Be cautious when unpacking and installing the product.

• Sharp edges could cause injury.

If the refrigerant gas leaks during the repair, do not touch the leakaing refrigerant gas.

• The refrigernat gas can cause frostbite (cold burn)

Do not tilt the unit when removing or uninstalling it.

• The condensed water inside can spill.

If the refrigerant gas leaks during the installation, ventilate the area immediately.

• Otherwise it can be harmfull for your health.

Dismantling the unit, treatment of the refrigerant oil and eventual parts should be done in accordance with local and national standards.

Do not expose your skin or kids or plants to the cool or hot air draft.

• This could harm to your health.

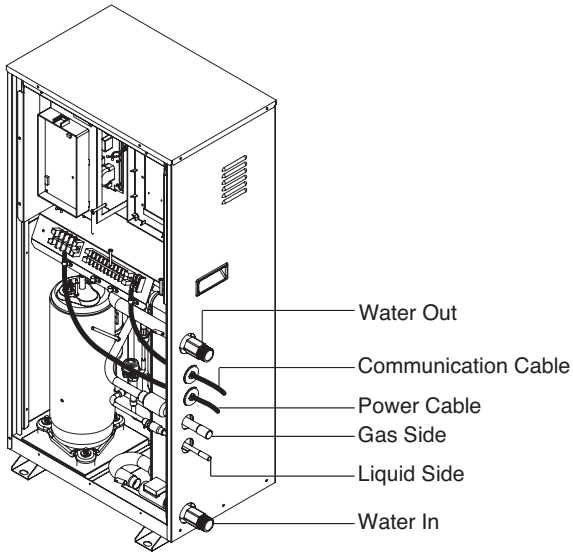
Use a firm stool or ladder when cleaning, maintaining or repairing the product at an height.

• Be careful and avoid personal injury.

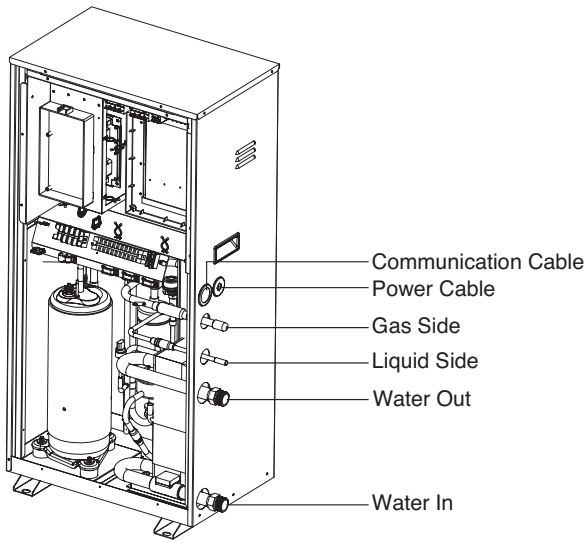
Product Introduction

Typical Installation Scene

8HP(ARNH08GK3A2)



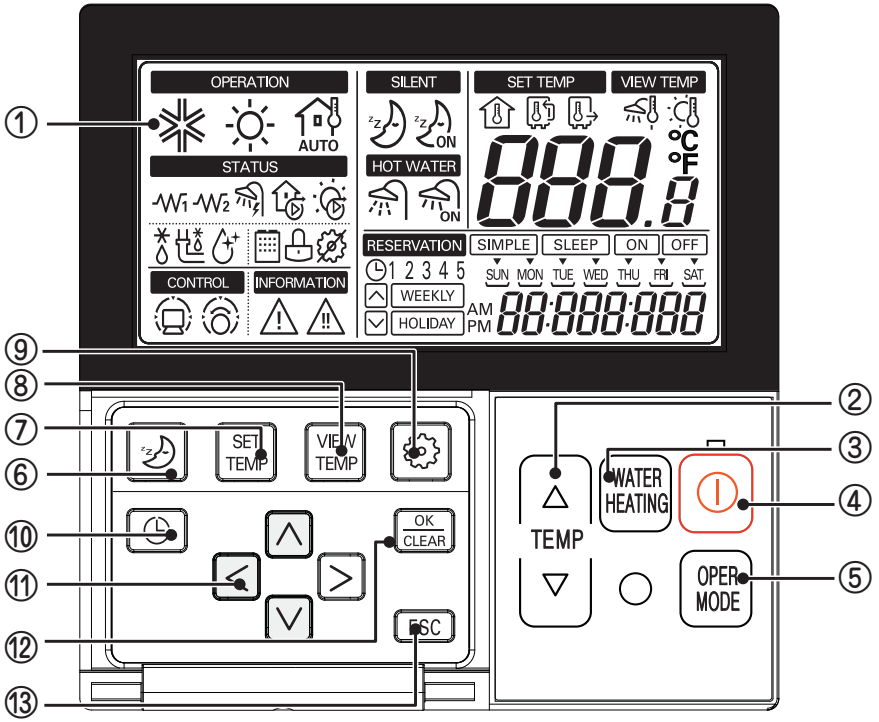
4HP(ARNH04GK3A2)



⚠CAUTION

Use of power supply separate power for the indoor unit. (Do not connect and use from the power terminal of the outdoor unit.)

Remote Controller



No	Name
1	Display
2	Change Temperature Button
3	Water Heating Enable / Disable Button
4	Power Button
5	Operation Mode Selection Button
6	Silent Mode On / Off Button
7	Temperature Setting Mode Button
8	Temperature View Mode Button
9	Function Setting Button
10	Programming Button
11	Direction Button (Up, Down, Left, Right)
12	Set / Clear button
13	ESC Button

❈ Grey painted functions may not be operated and displayed.

Owner's Instruction

Monitoring Information



WATER PUMP
This icon indicates that the water pump is active.



DEFROSTING
This icon indicates that the defrost mode is active.
In space heating operation or sanitary water tank heating operation, freezing of the outdoor heat exchanger may be occur due to low outdoor temperature and humidity. If this risk occurs, the product goes into defrost operation. It reverses the cycle and takes heat from the indoor system to prevent freezing of the outdoor system. This mode is automatically operating.



MAINTAIN LOWEST TEMPERATURE
The purpose of this mode is maintaining the temperature to prevent damage by freezing of water pipe.



OUTDOOR
This icon indicates that the outdoor unit is active.



CHILD LOCK



NO FUNCTION



CENTRAL CONTROLLER
This icon indicates that the product is controlled by the central controller.



THERMOSTAT
This icon indicates connection with thermostat.



SLIGHT TROUBLE
This icon indicates that slight trouble occurs.



HEAVY TROUBLE
This icon indicates that heavy trouble occurs.

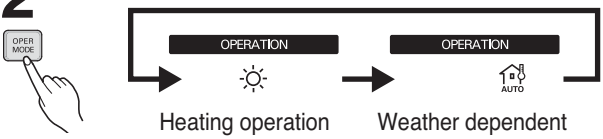
Mode Change

Turn on the product and select operation mode.

1 Press Power Button to turn on the product.



2 Press OPER MODE Button to select each operation mode.



Heating operation

Weather dependent operation

Operation Mode

- Heating Operation - The product yields hot water to use in under floor heating or FCU heating.
- Weather dependent Heating Operation - In this mode, heating setpoint is automatically determined by pre-defined temperature profile.

Selecting Target Temperature

1 Press SET TEMP Button to select each operation mode.

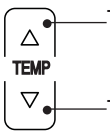


Room temperature

Leaving Water temperature

Sanitary Water Tank temperature

2 Adjust desired temperature by pressing Change Temperature buttons on each mode.



To raise the Temperature

To lower the Temperature

※ Note

: Increase 1°C or 2°F per one time pressing

: Decrease 1°C or 2°F per one time pressing

- We can change the temperature range of each mode on installation setting mode. Please refer to Function Code 11 to 15.
- Room Temperature setting is available when Remote Room Air Sensor (sold separately) is installed. Please refer to Function Code 03.
- Sanitary Water Tank temperature setting is available when Sanitary Water Tank is installed.

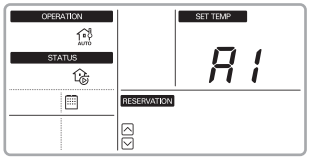
Weather-dependent Operation

This mode is only applied to heating.

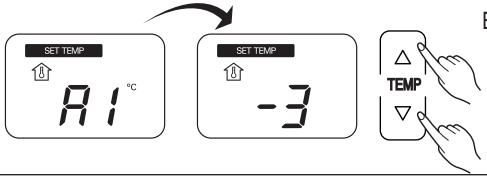
In order to save energy and to give highest comfort, setting temperature will follow outside temperature. If outdoor temperature decreases, heating capacity for the house will increase automatically in order to keep same room temperature. All parameters will be set by installer during start-up procedure and will be adapted to the site characteristic.

1 Press OPER MODE Button to select Weather-dependent operation mode.

AUTO : Weather Dependent operation icon



2 Adjust the desired temperature level by pressing Change Temperature buttons.

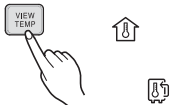


Ex) Decreasing temperature profile by 3°C (based on room air temperature)
<Temperature adjust step (unit : °C)>
-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5

← Cold Hot →

View Temperature

1 Press repeatedly View Temperature Button to select each Temperature. (Whenever press View Temperature button, the room temperature will be displayed during 5 seconds.)



VIEW TEMP : View Room Temperature

VIEW TEMP : View Inlet Temperature

VIEW TEMP : View Outlet Temperature

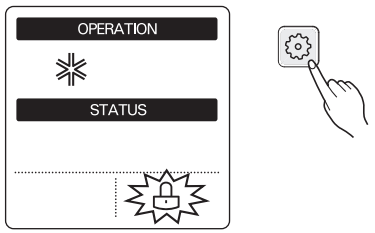
VIEW TEMP : View Sanitary Water Temperature (ONLY displayed when sanitary water heating mode)

Temperature	Temperature Range	Displayed as
Air	below 11°C(51°F)	*Lo*
	11°C(51°F) ~ 39°C(102°F)	actual temperature
	above 39°C(102°F)	*Hi*
Water	below 0°C(32°F)	*Lo*
	0°C(32°F) ~ 92°C(197°F)	actual temperature
	above 92°C(197°F)	*Hi*

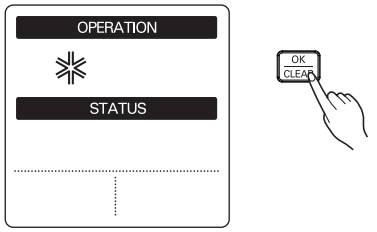
Child Lock

This function is to prevent children or other people from using controller.

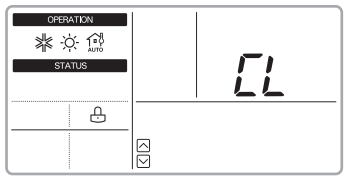
1 Press Function Setting Button to enter user setting mode. (The segment will be flashed)



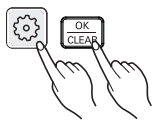
2 Press set/clear button to finish the selection. The segment will disappear.



3 During Child Lock, icon and 'CL' will be displayed during 3 seconds whenever entering any kind of buttons except for view temperature button and setting/clear button.



4 To release this setting, press function Setting button until icon flashes and then enter setting/clear button.



Error code display

When the error occurs on indoor unit, the error code will be displayed on remote controller.

Slight trouble

A problem is found inside the indoor unit. In most case, this trouble is concerned with sensor problems. In this case, **Hydro Kit** can operate in an emergency mode (only Heating operation).



<Display>

Heavy trouble

A problem is found inside the outdoor unit.



<Display>

Critical error

On critical error, the product will stop unconditionally.
At this time, CH' and error code No. keep display by turns.



<Display>

Setting Current Time

You can set current time.

1 Keep pressing programming button twice successively to enter Setting current time mode.



2 Press left, right button to adjust the current day.



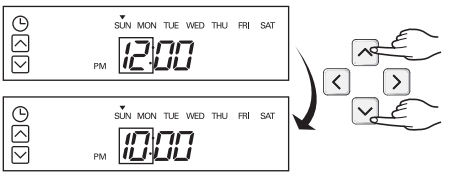
3 Press down button to move to AM/PM part and adjust it. (The AM/PM segment will be flashed)



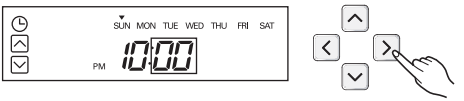
4 Press right button to move to "Hour" part. (the "Hour" segment will be flashed)



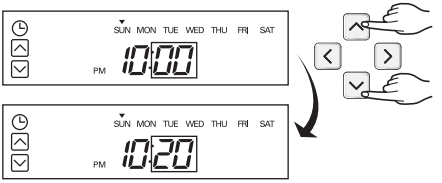
5 Press up, down button to adjust the Hour.



6 Press right button to move to "Minute" part. (the "Minute" segment will be flashed)



7 Press up, down button to adjust the Minute.



8 If you finish the setting, press set/clear button.



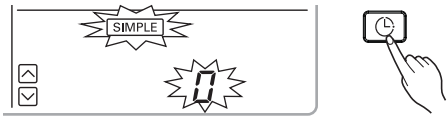
9 Press exit button to exit or system will automatically release without any input 25 seconds.



Programming : Setting Simple Reservation

You can easily turn-on reservation.(ONLY enable when unit is stand-by.)

1 Press programming button to enter the Programming mode. (the segment will be flashed)



2 Press up, down button to adjust the reservation time.



3 If you finish the setting, press setting/cancel button to complete programming



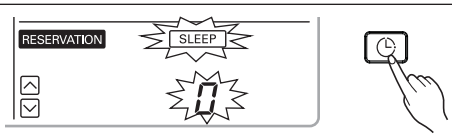
4 Press exit button to exit or system will automatically release without any input after 25 seconds.



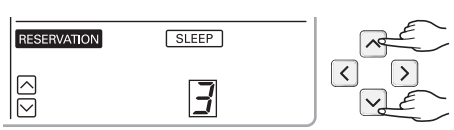
Programming : Setting Sleep Reservation

You can easily turn-off(sleep) reservation.(ONLY enable when unit is operating.)

1 Press programming button to enter the Programming mode. Press Programming button repeatedly to select [sleep reservation]. (the segment flashing)



2 Press up, down button to adjust the reservation time.



3 If you finish the setting, press setting/cancel button to complete programming.



4 Press exit button to exit or system will automatically release without any input after 25 seconds.



Programming : Setting ON Reservation

This function is able to turn-on after a setting time.

1 Press programming button to enter the Programming mode. Press Programming button repeatedly to select [on reservation]. (the segment flashing)



2 Press up, down button to adjust AM/PM.



3 Press right button to move to "Hour" part. (the "Hour" segment will be flashed)



4 Press up, down button to adjust the Hour.



5 Press right button to move "Minute" part. (the "Minute" segment will be flashed)



6 Press up, down button to adjust the Minute.



7 If you finish the setting, press setting/cancel button to complete programming.



8 Press exit button to exit or system will automatically release without any input after 25 seconds.



Programming : Setting OFF Reservation

This function is able to turn-off after a setting time.

1 Press programming button to enter the Programming mode. Press Programming button repeatedly to select [off reservation]. (the segment flashing)



2 Press up, down button to adjust AM/PM.



3 Press right button to move to "Hour" part. (the "Hour" segment will be flashed)



4 Press up, down button to adjust the Hour.



5 Press right button to move to "Minute" part. (the "Minute" segment will be flashed)



6 Press up, down button to adjust the Minute.



7 If you finish the setting, press setting/cancel button to complete programming.



8 Press exit button to exit or system will automatically release without any input after 25 seconds.



Programming : Weekly Reservation

The weekly reservation is active after setting current time.

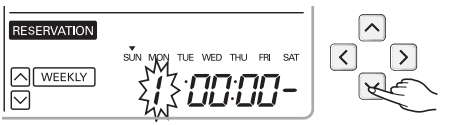
1 Press programming button to enter the Programming mode. Press Programming button repeatedly to select [Weekly reservation]. (the segment flashing)



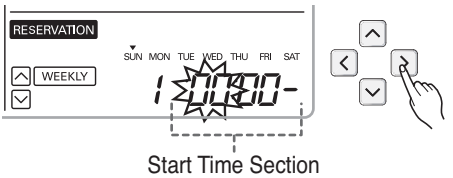
2 Press left, right button to adjust the current day.



3 Press up, down button to adjust the action number.



4 Press right button to move to "Hour" part on ON Time section.
(The "Hour" segment will be flashed)



5 Press up, down button to adjust the Hour on Start Time section.



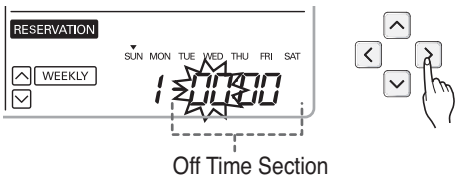
6 Press right button to move to "Minute" part on Start Time section.
(The "Minute" segment will be flashed)



7 Press up, down button to adjust the Minute on Start Time section.

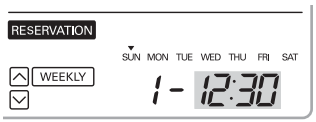


8 Press right button to move to "Hour" part on OFF Time section.
(The "Hour" segment will be flashed)

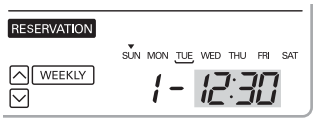


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9 Please refer to the process from No.5 to No.7 for setting OFF Time. It is the same method.



10 If you finish the setting, press setting/cancel button to complete programming. The under bar segment will be created, when finished.





11 Please refer to the process from No.2 to No.10 for setting other day weekly program. It is the same method.



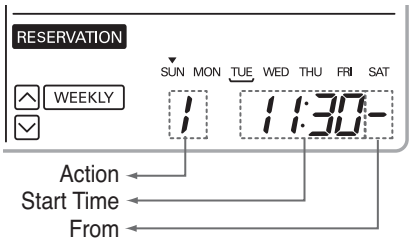
12 Press exit button to exit or system will automatically release without any input after 25 seconds.



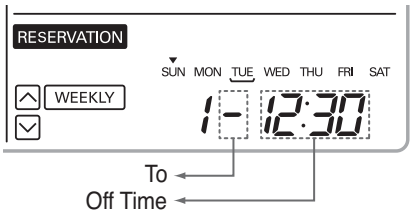
<Note>

Description of weekly reservation

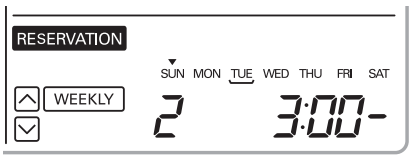
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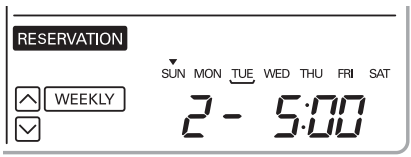
<Off Time Section>



<Start Time Section>



<Off Time Section>



❊ Two actions per weekday can be programmed, in total 14 actions

Programming : Holiday Reservation

This function is to automatically stop the machine working on some days.

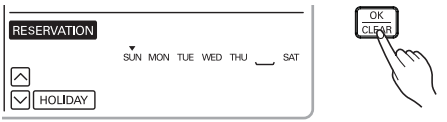
1 Press programming button to enter the Programming mode. Press Programming button repeatedly to select [Holiday reservation]. (the segment flashing)



2 Press left, right button to adjust the holiday.



3 When you press set/clear button after finishing the selection, the day selected will disappear.



4 Press exit button to exit or system will automatically release without any input after 25 seconds.



Using Thermostat

The term "thermostat", which is widely used in this chapter, is a kind of 3rd party accessory.
LG Electronics does not supply thermostat. but it can be supplied by 3rd party manufacturers.
Room thermostat can be used for easy and convenience control. To utilize thermostat more efficiently and correctly, this chapter presents information about using thermostat.

⚠CAUTION

1. Some electro-mechanical type thermostat has internal delay time to protect compressor. In that case, mode change can takes time more than user's expectation. Please read thermostat manual carefully if the product does not response quickly.
2. Setting temperature range by thermostat can be different with that of the product. The heating set temperature should be chosen within the setting temperature range of the product.

How to use Thermostat

To find how to turn on and off, how to set target temperature, how to change operating mode, etc, please refer to thermostat operating manual provided by thermostat manufacturer.

Operating Thermostat with Remote Controller

• Following features are permitted when thermostat is installed :

- SET TEMP button
- VIEW TEMP button
- △ TEMP ▽ Temperature adjust button (*)
- WATER HEATING Sanitary water heating Enable / Disable

(*) : The product does not turn on / off according to the setting temperature at the remote controller. It turns on / off according to the thermostat signal.

• Following features are NOT permitted when thermostat is installed :

- OPER MODE Operating mode (Heating/ weather-dependent) selection
- Time scheduling
- Operation On / Off

Emergency Operation

• **Definition of terms**

- Trouble : a problem which can stop system operation, and can be resumed temporally under limited operation without certificated professional's assist.
- Error : problem which can stop system operation, and can be resumed ONLY after certificated professional's check.
- Emergency mode : temporary heating operation while system met Trouble.

• **Objective of introducing 'Trouble'**

- Not like airconditioning product, **Hydro kit** is generally operated in whole winter season without any system stopping.
- If system found some problem, which is not critical to system operating for yielding heating energy, the system can temporarily continue in emergency mode operation with end user's decision.

• **Classified Trouble**

- Trouble is classified into two levels according to the seriousness of the problem : Slight Trouble and Heavy trouble
- Slight Trouble : a problem is found inside the indoor unit. In most case, this trouble is concerned with sensor problems. The outdoor unit is operating under emergency mode operation condition which is configured by DIP switch No. 4 of the indoor unit PCB.
- Heavy Trouble : a problem is found inside the outdoor unit.
- Option Trouble : a problem is found for option operation such as water tank heating. In this trouble, the troubled option is assumed as if It does not cause in the Product.

• **Emergency operation level**

- When system met trouble, it stops operation and waits for user's decision : Calling service center or starting emergency operation.
- To start emergency operation, user simply pushes ON / OFF button once more.
- Two different levels are prepared for emergency operation : High temperature cycle and low temperature cycle.
- In emergency operation mode, user can not adjust target temperature.

	Dip Switch (#4)	Target Leaving Water Temperature	Target Room Air Temperature	Target Sanitary Water Temperature
High temperature cycle	OFF	70°C(158°F)	24°C(75°F)	70°C(158°F)
Low temperature cycle	ON	50°C(122°F)	19°C(66°F)	50°C(122°F)

• **Following features are permitted in emergency operation :**

- Operation On/Off
- VIEW TEMP button(*)
- TEMP Temperature adjust button (*)
- WATER HEATING Sanitary water heating Enable / Disable

(*) : Temperature measured by failed sensor is displayed as '- -'.

The product does not turn on / off according to the setting temperature at the remote controller.
It turns on / off according to the thermostat signal.

• **Following features are NOT permitted in emergency operation :**

- OPER MODE Operating mode (Heating/ Weather-dependent) selection
- Time scheduling
- SET TEMP SET TEMP button

• **Duplicated trouble : Option trouble with Slight or Heavy trouble**

- If option trouble occurs with slight (or heavy) trouble at the same time, the system puts higher priority to slight (or heavy) trouble and operates as if slight (or heavy) trouble occurs.
- Therefore, sometimes sanitary water heating can be impossible in emergency operation mode. When sanitary water is not warming up while emergency operation, please check if sanitary water sensor and related wiring are all Ok.

• **Emergency operation is not automatically restarted after main electricity power is reset.**

- In normal condition, the product operating information is restored and automatically restarted after main electricity power is reset.
- But in emergency operation, automatic re-start is prohibited to protect the product.
- Therefore, user must restart the product after power reset when emergency operation has been running.

Maintenance and Service

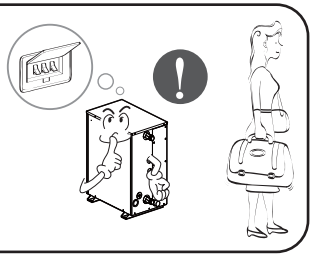
Maintenance activities

In order to ensure optimal availability of the unit, a number of checks and inspections on the unit and the field wiring have to be carried out at regular intervals, preferably yearly. This maintenance should be carried out by your local agreed technician.

When the unit is not going....

⚠CAUTION

- If the product is not used for long time, we strongly recommend NOT TO SWITCH OFF THE POWER SUPPLY to the product.
- If power is not supplied, some special product-protecting actions (such as water pump anti-locking) will not performed.



Call the service immediately in the following situations

1. Anything abnormal such as burning smell, loud noise etc. happen. Stop the unit and turn the breaker off. Never try to repair by yourself or restart the system in such cases.
2. Main power cord is too hot or damaged.
3. Error code is generated by self diagnosis.
4. Water leaks from indoor unit.
5. Any switch, breaker (safety, earth) or fuse fails to work properly

User must carry routine checkup & cleaning to avoid unit's poor performance.
In case of special situation, the job must be carried out by the only service person.

Management of plate-type heat exchanger

The efficiency of the plate-type heat exchanger will decrease, or the exchanger can be broken due to freezing and bursting by the flux decrease, as much as scale formation is accumulated.
Because of these reasons, it is necessary to manage the exchanger periodically to avoid scale formation.

The following items should be checked before the season for use is started. (Interval: Once a year)

1. Analyze water to see if the standard condition is met or not.
2. Clean the strainer.
3. Check whether the flux is proper.
4. Check whether the operating environment is proper.
   (Pressure, flow, water outlet temperature, etc.)

Follow the following procedure to clean the plate-type heat exchanger. (Interval: Once a year)

1. For chemical solvent cleaning, check if the water pipe is equipped with service port.
   The proper chemical solution for scale cleaning includes formic acid with 5% dilution, citric acid, oxalic acid, acetic acid, and phosphoric acid. Acetic acid, phosphoric acid, etc. is appropriate.
   (※ Never use hydrochloric acid, sulfuric acid and nitric acid as they are corrosive.)
2. When cleaning, make sure to check whether the gate valve of water pipe inlet/outlet and valve of water discharge pipe are firmly closed.
3. Connect the pipe for chemical solution cleaning through the service plug of the water pipe; and fill the detergent in 50°C ~ 60°C in plate-type heat exchanger and circulate with a pump for 2 ~ 5 hours.
   The circulation time depends on the detergent's temperature or the degree of the scale formation. Therefore, observe the color change of the chemical solution well to determine the circulation time to remove scales.
4. After the solution circulation work, drain off all chemical solutions inside the plate-type heat exchanger; and fill in 1 ~ 2% concentrated sodium hydroxide (NaOH) or sodium hydrogen carbonate NaHCO3 and circulate for 15 ~ 20 minutes to neutralize the heat exchanger.
5. After the neutralization work, wash the inside of the plate-type heat exchanger with clean water. You can check whether the chemical solution has been successfully removed by measuring pH concentration of water.
6. In case where other detergent that is available on the market is used, be sure to check in advance whether it has any corrosive reaction with stainless or copper.
7. For more detail about chemical detergents for cleaning, get consultation from the expert in the related field.

Troubleshooting Tips! Save time and money!

Check the following points before requesting repairs or service.... If the malfunction persists, please contact your dealer.

Case	Explanation
Hydro Kit does not operate.	• Have you made a mistake in timer operation?
	• Has the fuse blown or has the circuit breaker been tripped?
The room has a peculiar odor.	• Check that this is not a damp smell exuded by the walls, carpet, furniture or cloth items in the room.
Hydro Kit does not operate for about 3 minutes when restart.	• This is the protector of the mechanism.
	• Wait about three minutes and operation will begin.
Does not cool or heat effectively.	• The room may have been very hot when the **Hydro Kit** was first turned on. Allow time for it to cool down.
	• Has the setting temperature been set incorrectly?
The unit operation is noisy.	• Refrigerant flow sound - While the system is being started or stopping, sound from the refrigerant flow may be heard. • Sound for the indoor unit heat exchanger - During the cooling operation, a sound may be heard from the indoor unit heat exchanger due to water freezing or melting. • Water noise - During starting or stopping of the unit, noise can appear in water piping • During defrost - Noise can appear in unit due to defrosting of water.
Steam is raised in outdoor unit.	• Steam from outdoor heat exchanger - During defrosting operation, ice on the outdoor heat exchanger is melted, resulting in making steam.
Remote controller display is faint, or no display at all.	• Has the circuit breaker been tripped?



[Производитель] LG Electronics Inc, Республика Корея,
Кёнгсангнам, Чангвон, Сёнгсан, Ванам-ро, 84, завод Чангвон №2
[Manufacturer] LG Electronics Inc. Changwon 2nd factory
84, Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, KOREA