

OWNER'S MANUAL

AIR

CONDITIONER

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

CEILING CONCEALED DUCT



MFL37347412

LG 24 x 7 CALL CENTER



1800-315-9999
1800-180-9999
(Toll Free)



www.lg.com/in/support
cac.service@lgepartner.com



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To know more about LG, visit 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.

Dealer's Name _____

Date Purchased _____

■ 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 air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner.

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.
- The air conditioner 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 the air conditioner.
- When the power cord is to be replaced, replacement work shall 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 to properties only.

■ Meanings of symbols used in this manual are as shown below.



Be sure not to do.



Be sure to follow the instruction.



WARNING

■ Installation

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

- 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.

Do not modify or extend the power cable.

- There is risk of fire or electric shock.

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

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

For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.

- Do not disassemble or repair the product. There is risk of fire or electric shock.

Always install a dedicated circuit breaker.

- Improper wiring or installation may cause fire or electric shock

Do not install, remove, or re-install the unit by yourself (customer).

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

Do not install the product on a defective installation stand.

- It may cause injury, accident, or damage to the product.

Always ground the product.

- There is risk of fire or electric shock.

Use the correctly rated breaker or fuse.

- There is risk of fire or electric shock.

Be cautious when unpacking and installing the product.

- Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.

Be sure the installation area does not deteriorate with age.

- If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.

■ Operation

Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.

- Moisture may condense and wet or damage furniture.

Do not touch the power cable during operation

- There is risk of fire or electric shock.

Do not allow water to run into electric parts.

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

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

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

Do not open the inlet grill 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.

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

- There is risk of fire or electric shock.

When the product is not be used a long time, Turn the main power off.

- There is risk of product damage or failure, or unintended operation.

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 touch(operate) the product with wet hands.

- There is risk of fire or electrical shock.

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

- There is risk of fire or failure of product.

If strange sounds, or small or smoke comes from product. Turn the breaker off.

- There is risk of electric shock or fire.

When the product is soaked (flooded or submerged), contact an Authorized Service Center.

- There is risk of fire or electric shock.

Do not place anything on the power cable.

- There is risk of fire or electric shock.

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

- There is risk of fire and electric shock.

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

- Oxygen deficiency could occur.

Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.

- There is risk of property damage, failure of product, or electric shock.

Be cautious that water could not enter the product.

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

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

- There is risk of electric shock.

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

- This could result in personal injury and product damage.



CAUTION

■ Installation

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

- Low refrigerant levels may cause failure of product.

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

- It may cause a problem for your neighbors.

Install the drain hose to ensure that water is drained away properly.

- A bad connection may cause water leakage.

Use two or more people to lift and transport the product.

- Avoid personal injury.

Keep level even when installing the product.

- To avoid vibration or water leakage.

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

- It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.

■ Operation

Do not expose the skin directly to cool air for long periods of time. (Don't sit in the draft.)

- This could harm to your health.

Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, 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, etc.

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

Do not touch the metal parts of the product when removing the air filter. They are very sharp!

- There is risk of personal injury.

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

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

Always insert the filter securely. Clean the filter every two weeks or more often if necessary.

- A dirty filter reduces the efficiency of the air conditioner and could cause product malfunction or damage.

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

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

Do not drink the water drained from the product.

- It is not sanitary and could cause serious health issues.

Use a firm stool or ladder when cleaning or maintaining the product.

- Be careful and avoid personal injury.

Replace the all batteries in the remote control with new ones of the same type. Do not mix old and new batteries or different types of batteries.

- There is risk of fire or explosion

Do not recharge or disassemble the batteries. Do not dispose of batteries in a fire.

- They may burn or explode.

If the liquid from the batteries gets onto your skin or clothes, wash it well with clean water. Do not use the remote if the batteries have leaked.

- The chemicals in batteries could cause burns or other health hazards.

If you eat the liquid from the batteries, brush your teeth and see doctor. Do not use the remote if the batteries have leaked.

- The chemicals in batteries could cause burns or other health hazards.

Prior to Operation

Preparing for operation

1. Contact an installation specialist for installation.
2. Use a dedicated circuit.

Usage

1. Being exposed to direct airflow for an extended period of time could be hazardous to your health. Do not expose occupants, pets, or plants to direct airflow for extended periods of time.
2. Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.
3. Do not use this air conditioner for non-specified special purposes (e.g. preserving precision devices, food, pets, plants, and art objects). Such usage could damage the items.

Cleaning and maintenance

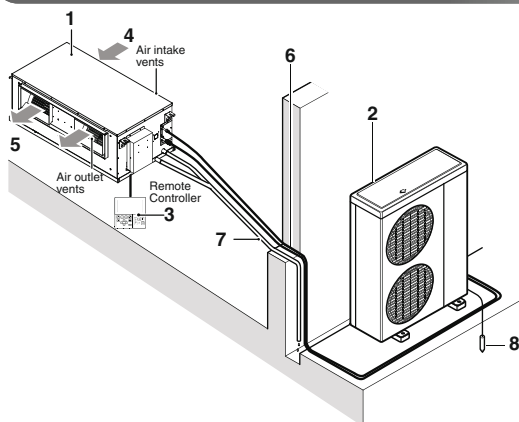
1. Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
2. Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
3. When cleaning the unit, first make sure that the power and breaker are turned off. The fan rotates at a very high speed during operation. There is a possibility of injury if the unit's power is accidentally triggered on while cleaning inner parts of the unit.

Service

For repair and maintenance, contact your authorized service dealer.

Product Introduction

Name and function of parts

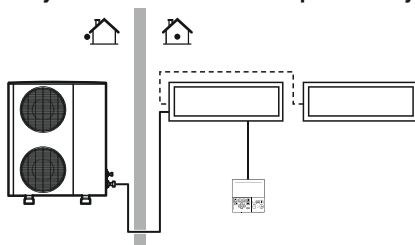


- 1: Indoor unit
- 2: Outdoor unit
- 3: Remote controller
- 4: Inlet air
- 5: Discharge air
- 6: Refrigerant piping, connection electric wire
- 7: Drain pipe
- 8: Ground wire
wire to ground outdoor unit to prevent electrical shocks.

* Image may vary with different model.

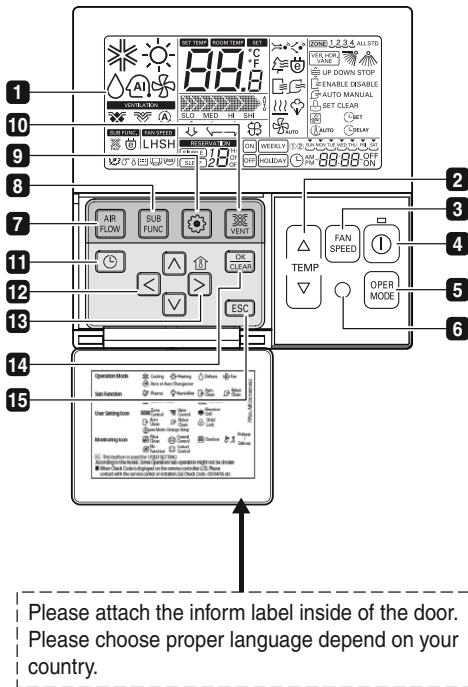
What to do before operation

Pair system or Simultaneous operation system



If your installation has a customized control system, ask your LG dealer for the operation that corresponds to your system.

Wired Remote Controller



- 1 OPERATION INDICATION SCREEN**
- 2 SET TEMPERATURE BUTTON**
- 3 FAN SPEED BUTTON**
- 4 ON/OFF BUTTON**
- 5 OPERATION MODE SELECTION BUTTON**
- 6 WIRELESS REMOTE CONTROLLER RECEIVER**
 - Some products don't receive the wireless signals.
- 7 AIR FLOW BUTTON**
- 8 SUBFUNCTION BUTTON**
- 9 FUNCTION SETTING BUTTON**
- 10 VENTILATION BUTTON**
- 11 RESERVATION**
- 12 UP,DOWN,LEFT,RIGHT BUTTON**
 - To check the indoor temperature, press  button.
- 13 ROOM TEMPERATURE BUTTON**
- 14 SETTING/CANCEL BUTTON**
- 15 EXIT BUTTON**

*Some functions may not be operated and displayed depending on the product type.

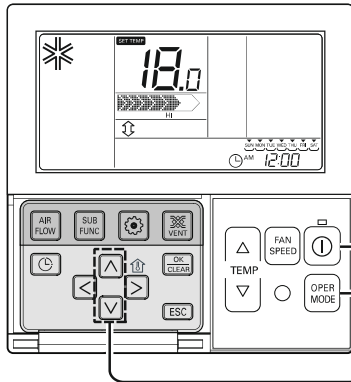
NOTE

- *Display temperature can be different from actual room temperature if the remote controller is installed at the place where sun-rays are falling directly or the place nearby heat source.
- *The actual product can be different from above contents depending upon model type.
- *When using simultaneous operation system, whenever press remote controller button, system will approximately operate after 1~2 minutes.

Operating instructions

Standard Operation - Standard Cooling

It cools the room by comfortable and clean wind.

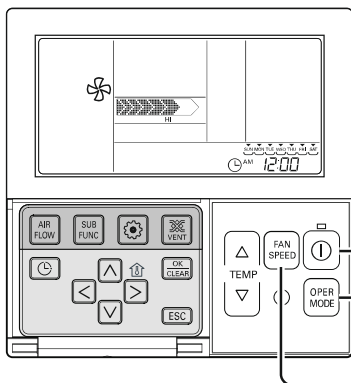


- 1** Press  button to turn on the indoor. 
- 2** Press  button to select Cooling operation mode. 
- 3** Adjust the desired temperature by pressing   buttons. Press  button to check the Room temperature. When setting the desired temperature higher than room temperature, only ventilation wind is blow out instead of cooling wind. 


* Setting Temp Range : 18°C~30°C (64°F~86°F)

Standard Operation - Fan Mode

It blows the air as it is in the indoor, not the cold wind.

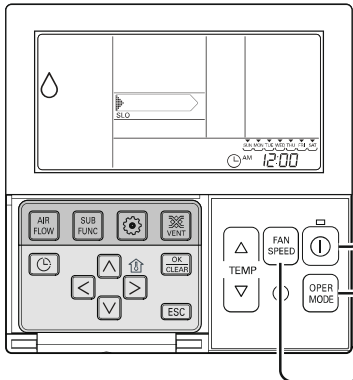


- 1** Press  button to turn on the indoor. 
- 2** Press  button to select Fan Mode. 
- 3** Every time pressing  button, you can select wind flow in order of feeble → weak → medium → strong → automatic. When running ventilation, compressor of AHU doesn't work. 

- Ventilation drive does not release cool wind but general fan
- Because it releases the wind that has no temperature difference from the room, it functions to circulate the inside air.
- The menu item of wind powerfulness might not be partially selected according to the product.

Standard Operation - Dehumidification Mode

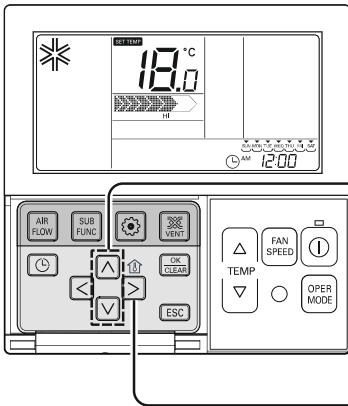
It removes humidity while air-cooling weakly.



- 1** Press  button to turn on the indoor. 
- 2** Press  button to select Dehumidification mode. The temperature setting can not be adjusted during operation this mode. 
- 3** Press the  button to select airflow rate weak → medium → strong. (The initial wind powerfulness of humidity removal drive is 'weak'.) 

- In rainy season or high humidity climate, it is possible to operate simultaneously dehumidifier and cooling mode to remove humidity effectively.
- The menu item of wind powerfulness might not be partially selected according to the product.

Standard Operation - Temperature Setting/Room Temperature Check



Temperature Setting

- 1 We can simply adjust the desired temperature.
 - Press the buttons to adjust the desired temperature.
 - : Increase 1°C or 2°F per one time pressing
 - : Decrease 1°C or 2°F per one time pressing

- Room temp: Indicate the current room temperature.
- Set temp: Indicate the temperature that user want to set.

※ Depend on what kind of controller, the desired temperature can be adjusted at 0.5°C or 1°F.

Cooling operation:

- The cooling mode doesn't work if desired temperature is higher than room temperature Please lower the desired temperature.

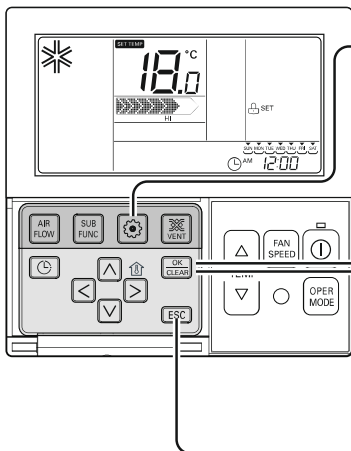
Room Temperature Check

- 1 Whenever press button, the room temperature will be displayed within 5 seconds.
After 5 seconds, it turns to display the desired temperature.
Because of location of remote controller, the real room temperature and the this displayed value can be different

- For air-cooling drive, from 18°C to 30°C you can select desired temperature.
- 5°C is proper for the difference between room and outside temperature.

Function setting - Child Lock

It is the function to use preventing children or others from careless using.



1 Press button repeatedly until the is flashing.



2 If moving to 'setup' icon area by using button, 'setup' icon blinks, and child lock function is setup if pressing button at that time.

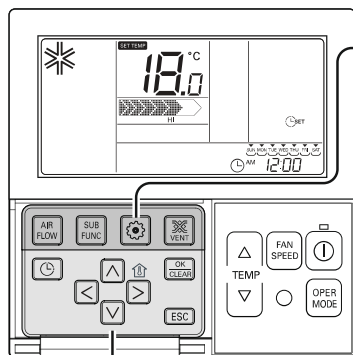


3 When cancelling lock function, if moving to 'cancel' icon by pressing button and then, pressing button, child lock function is cancelled.

4 Press button to exit.

- * After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
- * When exiting without pressing set button, the manipulated value is not reflected.

Function setting - Changing Current Time



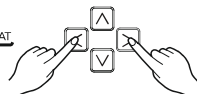
- 1** Please press function setup button. If pressing function setup button repeatedly, it moves to time setup menu. 'Time setup' icon is indicated at that time and date blinks at current time indication area.



Ex) Changing Current Time as 'Monday / AM 10:20'.

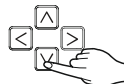
- 2** Press key to adjust the current day.

SUN MON TUE WED THU FRI SAT

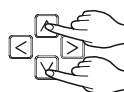


- 3** Press key to move to AM/ PM setting mode (the 'AM/ PM segment will flash').

AM 12:00

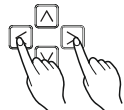


- 4** Setting AM/ PM value by pressing button.



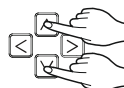
- 5** Press button to move to 'Hour' setting mode. (the 'Hour' segment will flash)

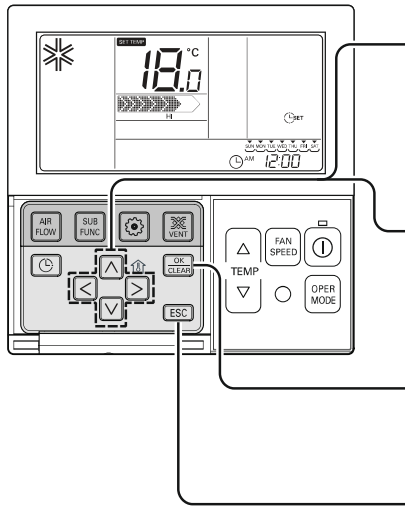
AM 12:00



- 6** Setting Hour value by pressing button.

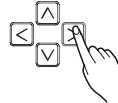
AM 10:00





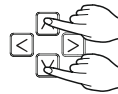
7 Press button to move to 'Minute' setting mode. (the 'Minute' segment will flash)

AM 10:00



8 Setting Minute value by pressing button.

AM 10:20



9 Press button to finish.

AM 10:20



10 In the process, press button to release and exit from setting mode. (In case of exit with incomplete information, it will return to the previous setting)

* When exiting without pressing set button, the manipulated value is not reflected.



Disposal of your old appliance (as per e-waste Rules)



1. When this crossed out wheeled bin symbol is depicted on the product and its operator's manual, it means the product is covered by the e-waste Management and Handling Rules, 2011 and are meant to be recycled, dismantled, refurbished or disposed off.

2. Do's

- The product is required to be handed over only to the authorized recycler for disposal.
- Keep the product in isolated area, after it becomes nonfunctional/un-repairable so as to prevent its accidental breakage.

Don'ts

- The product should not be opened by the user himself/herself, but only by authorized service personnel.
 - The product is not meant for re-sale to any unauthorized agencies/scrap dealer/kabariwala.
 - The product is not meant for mixing into household waste stream.
 - Do not keep any replaced spare part(s) from the product in exposed area.
3. Any disposal through unauthorized agencies/person will attract action under Environment (Protection) Act 1986.
4. Hazards of improper handling or accidental breakage.
- If batteries are disposed incorrectly, it can greatly harm the environment. The chemical by-products are hazardous. The metals and chemicals found in batteries can mix into soil which may be hazardous to humans, plants and animals. If thrown in fire, they can cause blast and release toxic gases which may be harmful for health.
 - The refrigerant (R410A) used can be combustible at low pressure. The potential health effects of over exposure is dizziness, headache and heart irregularities.
5. The product is complied with the requirement of Hazardous Substances as specified under Rule 13(1) & (2) of the E-Waste(Management & Handling) Rules, 2011.
6. To locate a nearest collection centre or call for pick-up (limited area only) for disposal of this appliance, please contact Toll Free No. 1800-315-9999 / 1800-180-9999 for details. All collection centre and pick up facilities are done by third parties with LG Electronics India Pvt. Ltd. merely as a facilitator.

For more detailed information, please visit : <http://www.lge.com/in>.

अपने पुराने उपकरण का निपटारा (उत्पाद ई-अपशिष्ट के अनुसार)



1. जब इस काटे गये पहिये वाले बिन का चिह्न किसी उपकरण और उसके आपरेटर की पुस्तिका के साथ संलग्न होता है तो इसका मतलब है कि इसे 'ई-अपशिष्ट' (प्रबंन और हथालन) नियम 2011 के अन्तर्गत सम्मिलित किया गया है, और इसे नवीनीकरण, विघटन और निपटार के लिए बनाया गया है।

2. करें-

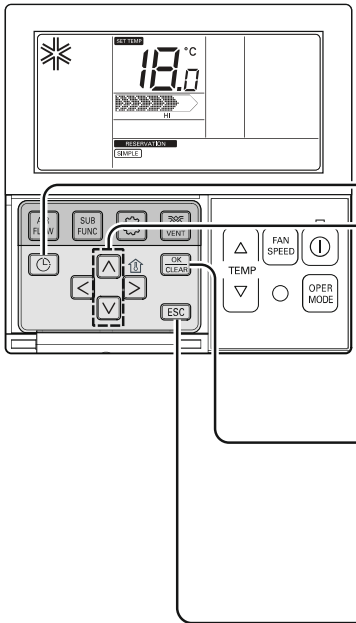
क- उपकरण को सिर्फ अधिकृत पुनः नवीनीकरणकर्ता को ही निपटारण करने हेतु हस्तान्तरित करें।
ख- जब उपकरण कार्यरत न हो तो इसे अलग क्षेत्र में रखें ताकि उपकरण से होने वाली दुर्घटनाओं से बचा जा सके।

ना करें-

- क- इस उपकरण को स्वयं/ खुद नहीं खोलना चाहिए! उपकरण को केवल अधिकृत अधिकारी के द्वारा ही खोला जाना चाहिए।
ख- इस उपकरण को पुनः किसी के लिए भी कबाड़ीवाला / भंगार वाला / अनाधिकृत संस्था को न दें।
ग- इस उपकरण को किसी धरेलु अपशिष्ट सामान के साथ मिलाकर रख दें।
घ- उपकरण के बदले हुए या आंतरिक पुरजों को खुले क्षेत्र में न रखें।
3. यदि किसी अनाधिकृत निगम या व्यक्ति के द्वारा निपटारा किया जाता है तो यह पर्यावरण (सुखा) धारा 1986 के अन्तर्गत आता है।
4. दुर्घटनाग्रस्त टूट-फूट तथा अव्यवस्थित रख-रखाव से बचें।
क- यदि बैटरियों का निपटारण अशुद्ध रूप से कर रहे हैं, तो यह वातावरण को बहुत नुकसान पहुँचा सकता है। रासायनिक उपकरण खतरनाक होते हैं। जो रासायन और घातु बैटरियों में पाए जाते हैं, इसे मिट्टी में मिलाने पर यह मनुष्यों, पौधों और पशुओं के लिए खतरनाक हो सकती है। यदि इसे आग में फेंकते हैं तो ये विस्फोट कर सकती हैं और ये जहरीली नैसे दे सकता है जो स्वास्थ्य के लिए हानिकारक है।
ख- रेफ्रिजरेंट (R410A) कम दबाव पर दहनशील हो सकती है तथा इससे स्वास्थ्य पर दुष्प्रभाव पड़ सकता है, जैसे चक्कर आना, सिर दर्द और हृदय गति रुकना।
5. यह उत्पाद ई-अपशिष्ट (प्रबंन और हथालन) नियम 2011 के अन्तर्गत 13(1) एवं (2) के तहत निर्दिष्ट खतरनाक पदार्थों की आवश्यकता का पालन करता है।
6. उपरोक्त पदार्थों के निपटारण के लिए नजदीकी निपटारण संस्थान (संकीर्ण क्षेत्र) में कॉल करें। अधिक जानकारी के लिए हमारे टोल फ्री नंबर 1800-315-9999 / 1800-180-9999 पर कॉल करें, सभी संग्रहण केन्द्र व पिक-अप की सुविधाएँ थर्ड-पार्टी को LG Electronics India Pvt. Ltd को अपनी सेवाएँ प्रदान कर रही हैं, से करावाएँ।
अधिक जानकारी के लिए देखें वेबसाइट : <http://www.lge.com/in>.

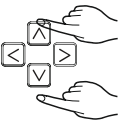
Programming - Simple Reservation

You can set the reservation conveniently in the units of 1 hour from 1 hour to 7 hours.



The diagram shows the air conditioner's control panel. Callout lines connect specific buttons to the numbered steps:

- Step 1:** Points to the **RESERVE** button on the top left of the panel.
- Step 2:** Points to the **UP** and **DOWN** arrow buttons in the center.
- Step 3:** Points to the **OK/CLEAR** button on the right side.
- Step 4:** Points to the **ESC** button on the bottom right of the panel.

1 Press  button to enter the Programming mode. (the SIMPLE segment flashing) Ex) Setting Simple Reservation time as '3'.	
2 Press   button to adjust reservation time. 1 → 3	
3 Press  button to finish setting. 3	
4 Press  button to exit. ✱ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds. ✱ When exiting without pressing set button, the manipulated value is not reflected.	

✱ When simple reservation setup, product automatically runs or stops after the time that is set.

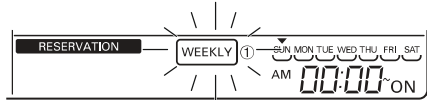
Programming : Weekly Reservation

You can set the daily reservation in weekly unit.

Weekly reservation keeps operating until before you cancel it once you setup

- Please move to reservation setup mode by pressing reservation button.
* You can setup two weekly reservations for one day, and up to fourteen reservations for a week.
For example, to setup (Tuesday morning 11:30 turned on ~ afternoon 12:30 turned off), you setup in order below.

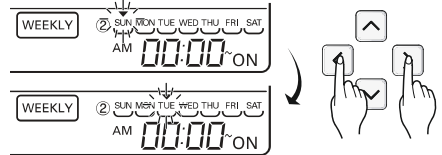
- Please move to 'weekly' by repeatedly pressing reservation button. 'Weekly' blinks at this time.



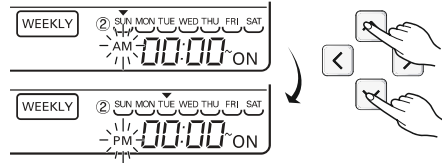
- Please select weekly reservation or weekly reservation 2 by using ☐ ☐ button.
* You can setup two reservations, weekly reservation 1 and weekly reservation 2, for a day.



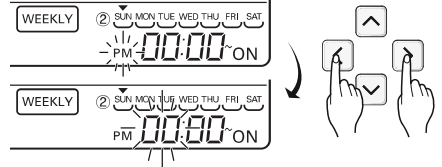
- Please move to 'date' setup part by using ☐ ☐ button. If 'date' indication blinks, please setup date. You can setup date from Monday to Sunday.



- Please move to 'AM/PM' setup part of turning on by using ☐ ☐ button.



- Please move to 'hour' setup part of turning on by using ☐ ☐ button.
- It is the part to setup the time at which air-conditioner is turned on.

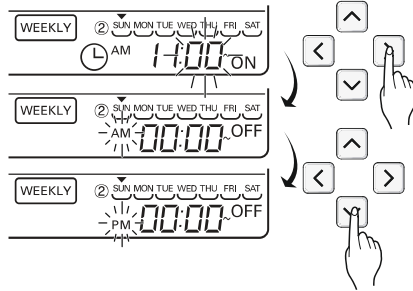


- Please change time by using ☐ ☐ button.
- You can setup hour 0~12.

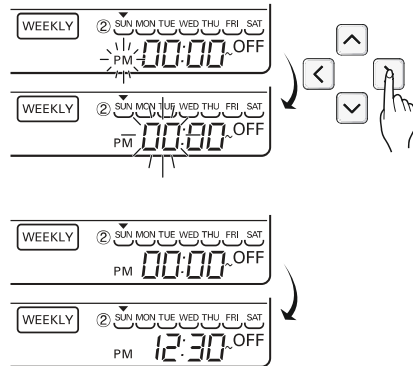
- Please move to 'minute' setup part of turning on by using ☐ button.

- If 'minute' indication blinks, please setup 'minute' by using ☐ ☐ button

- 10** Please move to 'AM/PM' setup part of turning off by using  button.
- AM/PM setup is identical with turning on time setup.



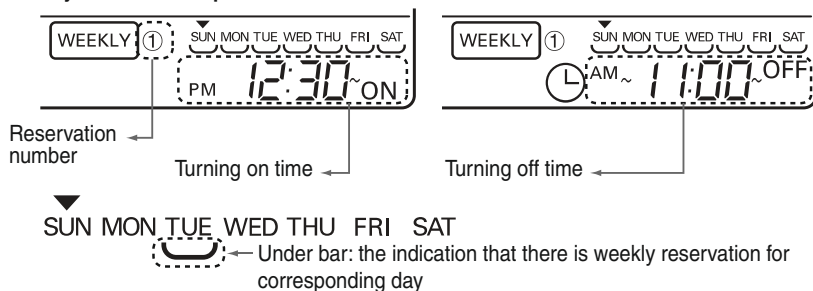
- 11** Please move to 'hour' setup part of turning off by using Right button.
- It is the part to reserve the time at which air-conditioner is turned off.
- If 'hour' indication blinks, please setup 'hour'.
* Please setup 'hour' and 'minute' identically with the method to setup turning on time.



- 12** If finishing weekly reservation setup, please press setup/cancellation button. Weekly reservation setup for the day that you set is finished.

- 13** If you setup with the method identical with above by selecting the day that you'd like to setup, it operates weekly reservation.
If you setup both turning on reservation time and turning off reservation time identically, it doesn't operate reservation drive.

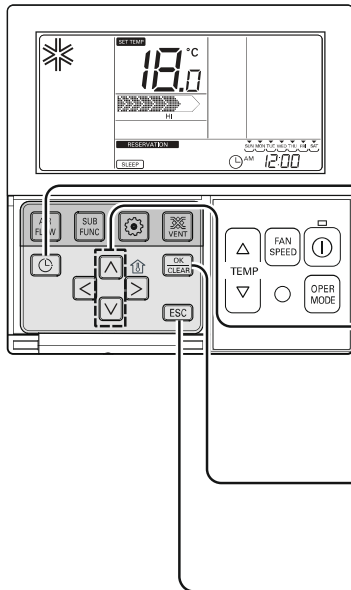
Weekly reservation explanation



- * Indoor unit is turned on to desired temperature if it is configured using up/down button during preset of weekly operation time. (Temperature selection range : 18°C~30°C)
- When desired temperature is not set, it is turned on automatically with desired temperature of previous operation.

Programming - Sleep Reservation

Sleep reservation is the function of air-conditioner to run and stop after certain period of time at sleep mode before sleep. When connected to a ventilation product and set the sleep reservation, when it goes to the sleep mode, after the set time has elapsed.



- 1 Press button to enter the Programming mode.
Ex) Setting Sleep Reservation time as '3'.
- 2 Repeat pressing button to enter the SLEEP reservation setting mode.
(segment flashing)
- 3 Press button to adjust reservation time.
The SLEEP reservation time is from 1 to 7 hours.
- 4 Press button to finish setting.
Whenever reservation is done.
- 5 Press button to exit.
* After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
* When exiting without pressing set button, the manipulated value is not reflected.
- If reservation is setup, 'sleep' indication shows up at the lower part of LCD screen.
- 6 If finishing sleep reservation setup, air-conditioner product operates sleep drive and stops after the time that is set.

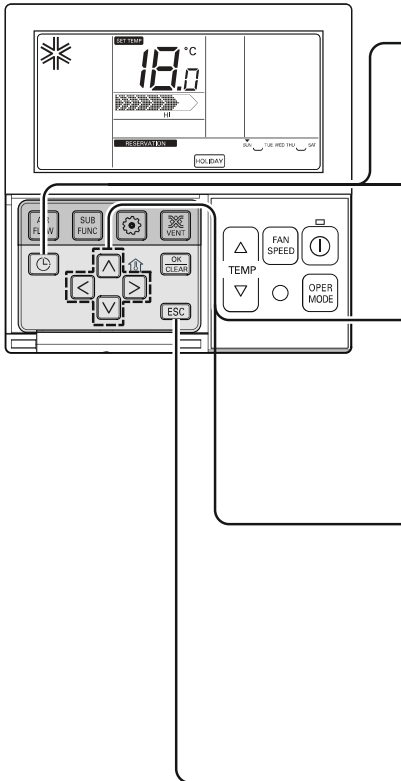
⚠ CAUTION

Please reserve proper time at sleeping. (Too much air-cooling is not good for your health.)

- Because it automatically adjusts desired temperature for comfortable air-cooling at sleep drive, there could be difference between remote controller's desired temperature and air-conditioner body's desired temperature.
- Sleep reservation operates as off reservation for the product whose temperature adjustment isn't controlled by unit of 0.5°C.

Programming : Holiday Reservation

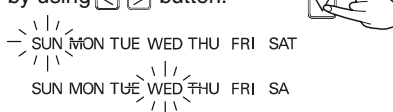
It automatically stops at reserved day that you set.

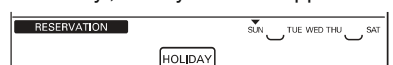


- 1** Please press  button.
It enters into reservation setup mode.


- 2** Please move to 'holiday' by repeatedly pressing  button.


- 3** Please move to 'date' that you want to setup holiday by using   button.


- 4** Please appoint or cancel holiday by using   or  button.
For example, when you setup Monday/Friday to holiday
- 'Monday', 'Friday' letter disappears.


- 5** Please press  button if finishing holiday setup.
* If it comes to appointed holiday, air-conditioner automatically stops.
Once you setup holiday appointment, until before you cancel holiday setup, air-conditioner automatically stops within one hour even though you run air-conditioner.

Maintenance and Service



CAUTION: Before performing any maintenance, turn off the main power to the system.

Grille, Case, and Remote Controller

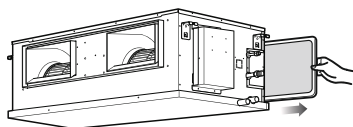
- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTE

Power supply must be disconnected before cleaning the indoor unit.

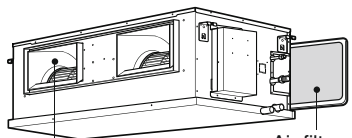
Air Filters

The air filters behind the front grille should be checked and cleaned once every 2 weeks or more often if necessary.



■ Never use any of the followings:

- Water hotter than 40°C.
Could cause deformation and or discoloration.
- Volatile substances.
Could damage the surfaces of the air conditioner.



Air outlet vent

Air filters

1. Remove the Air filters.

- Take hold of the tab and pull slightly forward to remove the filter.



CAUTION: When the air filter is to be removed, do not touch the metal parts of the indoor unit. It may cause an injury.

2. Clean dirt from the air filter using a vacuum cleaner or washing with water.

- If dirt is conspicuous, wash with a neutral detergent in lukewarm water.
- If hot water (40°C or more) is used, it may be deformed.

3. After washing with water, dry well in the shade.

- Do not expose the air filter to direct sunlight or heat from a fire when drying it.

4. Install the air filter.

When the air conditioner is not going to be used for a long time.

When it is not going to be used for a long time.

- 1** Operate the air conditioner at the following settings for 2 to 3 hours.
 - Type of operation: Fan operation mode.
 - This will dry out the internal mechanisms.

- 2** Turn off the breaker.



CAUTION

Turn off the breaker when the air conditioner is not going to be used for a long time.

Dirt may collect and may cause a fire.

Helpful information

The air filters and your electric bill.

If the air filters become clogged with dust, the cooling capacity will drop, and 6% of the electricity used to operate the air conditioner will be wasted.

When the air conditioner is to be used again.

- 1** Clean the air filter and install it in the indoor unit.

- 2** Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.

- 3** Check that the ground wire is connected correctly. It may be connect to the indoor unit side.

Operation Tips

Do not overcool the room.

This is not good for the health and wastes electricity.

Make sure that the doors and windows are shut tight.

Avoid opening doors and windows as much as possible to keep the cool air in the room.

Keep blinds or curtains closed.

Do not let direct sunshine enter the room when the air conditioner is in operation.

Clean the air filter regularly.

Blockages in the air filter reduce the airflow and lower cooling and dehumidifying effects. Clean at least once every two weeks.

Keep the room temperature uniform.

Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room.

Ventilate the room occasionally.

Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.

Before you call for service...



Troubleshooting Tips! Save time and money!

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

The air conditioner 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.	It seems that condensation is leaking from the air conditioner. • Condensation occurs when the airflow from the air conditioner cools the warm room air.	Air conditioner 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. • Is the air filter dirty? See air filter cleaning instructions. • The room may have been very hot when the room air conditioner was first turned on. Allow time for it to cool down. • Has the temperature been set incorrectly? • Are the indoor unit's air inlet or outlet vents obstructed?	The air conditioner operation is noisy. • For a noise that sounds like water flowing. -This is the sound of freon flowing inside the air conditioner unit. • For a noise that sounds like the compressed air releasing into atmosphere. -This is the sound of the dehumidifying water being processed inside the air conditioning unit.	Crack sound is heard. • This sound is generated by the expansion/constriction of the front panel, etc. due to changes of temperature. Filter sign lamp is ON. • Cleaning the filter, press the Timer button and ◀ button of wired remote controller at the same time for 3 sec.	Remote control display is faint, or no display at all. • Are the batteries depleted? • Are the batteries inserted in the opposite (+) and (-) directions?

NOTE

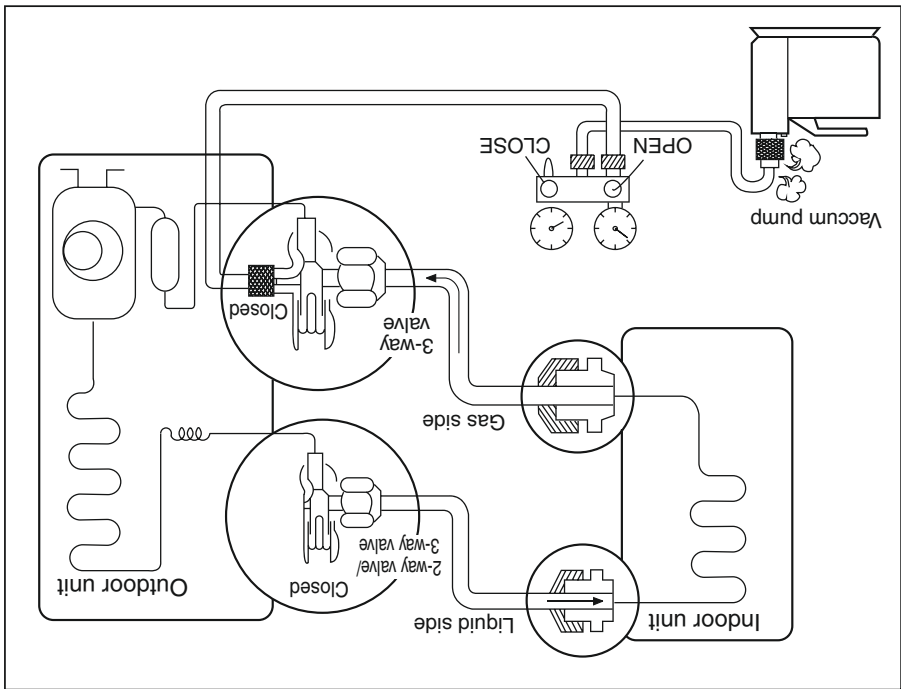
WATER RESISTANT: The outdoor side of this appliance is WATER RESISTANT.
The indoor side is not water resistant and should not be exposed to excess water.





7. Air Purging of the Connecting Pipes and the Indoor Unit

- The air which contains moisture remaining in the refrigeration cycle may cause a malfunction on the compressor.
1. Confirm that both the liquid side valve and the gas side valve are set to the closed position.
 2. After connecting the piping, check the joints for gas leakage with gas leak detector.
 3. Remove the service port nut, and connect the gauge manifold and the vacuum pump to the service port by the charge hose.
 4. Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below -76cmHg.
 5. Remove the valve stem nuts, and fully open the stems of the 2-way and 3-way valves with a hexagon wrench.
 6. Tighten the valve stem nuts of the 2-way valve and 3-way valve.
 7. Disconnect the charge hose and fit the nut to the service port.
(Tightening torque: 1.8kg.m)



4) Form the pipings

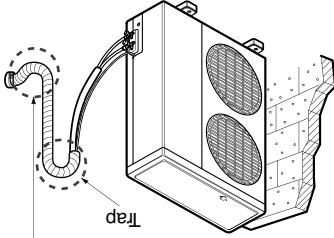
1. Wrap the connecting portion of indoor unit with the insulation material and secure it with two Plastic Bands. (for the right pipings)

- If you want to connect an additional drain hose, the end of the drain-outlet should keep distance from the ground. (Do not dip it into water, and fix it on the wall to avoid swinging in the wind.)

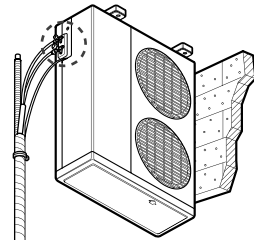
2. Tape the Pplings, drain hose and Connecting Cable from bottom to top.
3. Form the pipings gathered by taping along the exterior wall and fix it onto the wall by saddle or equivalent.

In case of the Outdoor Unit being installed above position of the Indoor Unit.

1. Tape the Pplings and Connecting cable from bottom to top.
2. Form the pipings gathered by taping along the exterior wall, and make the trap prevent water from entering into the room.
3. Fix the pipings onto the wall by saddle or equivalent.



Seal a small opening around the pipings with gum type sealer.

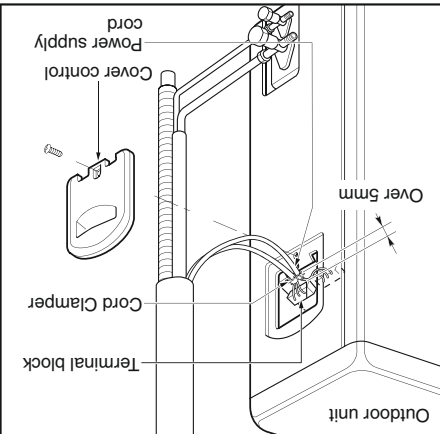


Seal a small opening around the pipings with gum type sealer.

Seal a small opening around the pipings with gum type sealer.

3) Connecting the cable to the Outdoor Unit

1. Remove the Cover control from the unit by loosening a screw.
- Connect the wires to the terminals on the control board individually as following.
2. Secure the cable onto the control board with the holder (clammer).
3. Refix the cover control to the original position with the screw.



CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- 1) Never fail to have an individual power specialized for the air conditioner. As for the method of wiring, be guided by the circuit diagram pasted on the inside of control box cover.
- 2) Provide a circuit breaker switch between power source and the unit.
- 3) The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- 4) Specification of power source
- 5) Confirm that electrical capacity is sufficient.
- 6) Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- 7) Confirm that the cable thickness is as specified in the power sources specification. (Particularly note the relation between cable length and thickness.)
- 8) Never fail to equip a leakage breaker where it is wet or moist.
- 9) The following troubles would be caused by voltage drop-down.
 - Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - Proper starting power is not given to the compressor.
- 10) Appliance must be grounded.
 - To minimize the risk of electric shock, you must always plug into a grounded outlet.
 - Do not cut or remove the grounding.

6. Connecting Cables between Indoor and Outdoor Unit

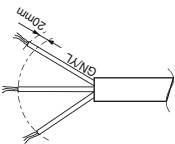
1) Connecting cables to the Indoor Unit

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- ? Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.

* Please do the interconnection as per Interconnection Table in wiring diagram.

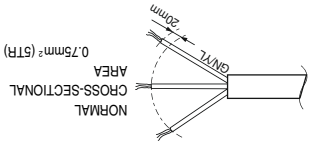
CAUTION

The power cord connected to the outdoor unit should be with the following specifications



NORMAL CROSS-SECTIONAL AREA	
Capacity	3 Phase
STR	2.5mm
STR	-
10TR	-

The connecting cable connected to the indoor and outdoor unit should be with the following specifications



0.75mm² (5TR)

WARNING

Make sure that the screws of the terminal are free from looseness.

2) Clamping of cables

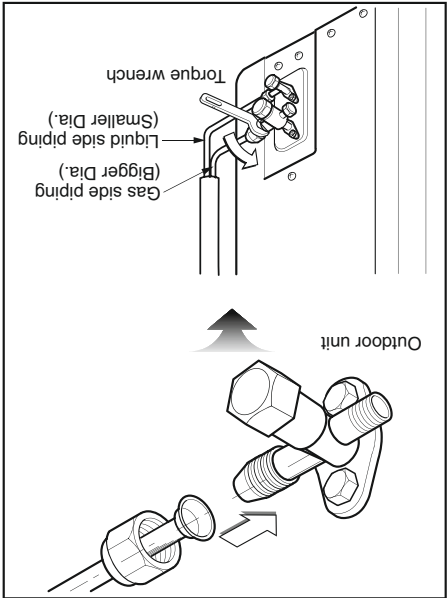
- 1) Arrange 2 power cables on the control panel.
- 2) First, fasten the steel clamp with a screw to the inner boss of control panel.
- 3) For the cooling model, fix the other side of the clamp with a screw strongly.

4. Connecting Pipes to the Outdoor Unit

1) Connecting the pipes to the Outdoor unit

1. Align the center of the piping and sufficiently tighten the flare nut with fingers.
2. Finally tighten the flare nut with torque wrench until the wrench clicks.
- When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

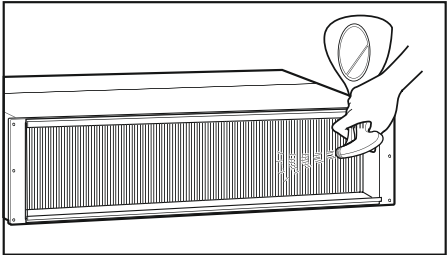
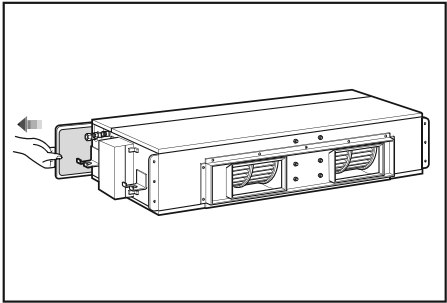
Pipe size	Torque
1/4"	1.8kg.m
3/8"	4.2kg.m
1/2"	5.5kg.m
5/8"	6.6kg.m
3/4"	6.6kg.m



5. Checking the Drainage

1) Checking the Drainage

1. Remove the air filter.
2. Check the drainage.
- Spray one or two glasses of water upon the evaporator.
- Ensure that water flows drain hose of indoor unit without any leakage.



6) Pipe bending

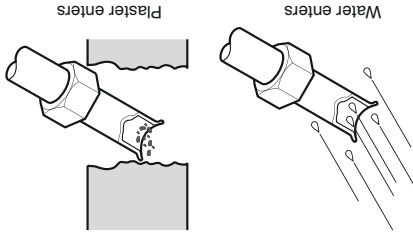
Annealed copper pipe with small diameter ($\phi 6.35$ or $\phi 9.52$) can be easily bent manually. In this case, secure large R(radius) for the bend section and gradually bend pipe. If annealed copper pipe is large in diameter ($\phi 12.7$, $\phi 15.88$ or $\phi 19.05$), bend pipe with bender. Use bender appropriate for the pipe diameter.

7) Brazing

In refrigerant piping, bending (in particular, acute bending) must be minimized to reduce piping resistance. Bending is, however, necessary in some places by virtue of the installation position of devices or of the building structure, piping distance or finishing appearance. Perform brazing using ready-made elbow. Aside from this function, brazing also serves to connect straight pipes, generally using ready-made sockets. While brazing, protect piping against heat with wet cloth to avoid damaging valve packing or burning thermal insulator with burner heat. While brazing, blow inert gas (nitrogen gas or carbonic gas) to prevent formation of oxidation film in copper piping; otherwise, the refrigerant circuit will clog. The blowing of nitrogen gas (or carbonic gas) through 3-way valves is described in the following:

8) Refrigerant piping(Flare piping)

When connecting piping, be sure to keep piping dry(keep piping away from water), clean (keep piping away from dust) and airtight (avoid refrigerant leakage). When connecting piping on rainy days or making a through-hole in wall, take due care to prevent water or plaster from entering piping.



CAUTION

a. This procedure is designed to prevent formation of oxidation film by filling piping with inert gas. Note that excessive gas pressure will generate pinholes at brazed points.
(Nitrogen gas: Supply pressure 0.05~0.1kg/cm²G)

b. When supplying inert gas, be sure to open one end of piping.

3. Connecting Pipes to the Indoor Unit

3-1. Preparation of Piping

Main cause of gas leakage is defect in flaring work. Carry out correct flaring work in the following procedure.

1) Cut the pipes and the cable.

■ Use the accessory piping kit or the pipes purchased locally.

■ Measure the distance between the indoor and the outdoor unit.

■ Cut the pipes a little longer than measured distance.

■ Cut the cable 1.5m longer than the pipe length.

2) Burrs removal

■ Completely remove all burrs from the cut cross section of pipe/tube.

■ Put the end of the copper tube/pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the tubing.

3) Putting nut on

■ Remove flare nuts attached to indoor and outdoor units, then put them on pipe/tube having completed burr removal.

(Not possible to put them on after flaring work)

4) Flaring work

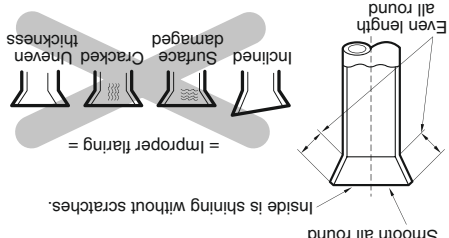
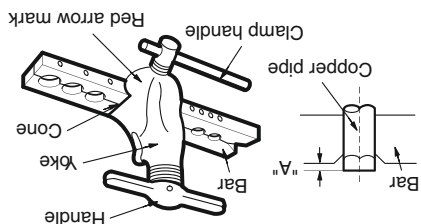
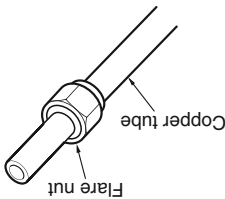
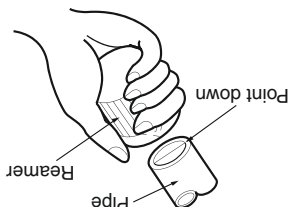
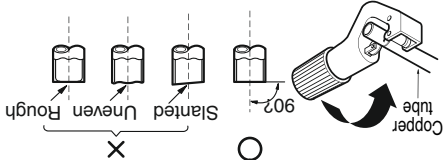
■ Carry out flaring work using flaring tool as shown below.

Outside Diameter	"A"
1/4"	0-0.5
3/8"	0.5~0.8
1/2"	0.5~0.8
5/8"	0.8~1.0
3/4"	1.0~1.3

Firmly hold copper tube in a bar(or die) as indicated dimension in the table above.

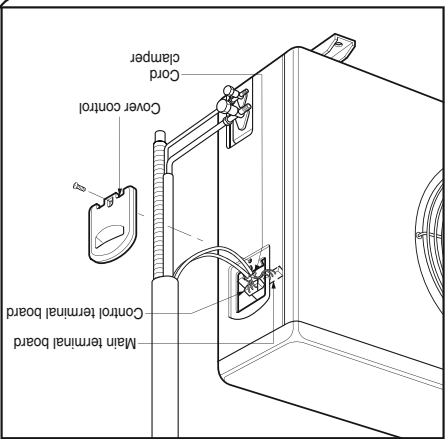
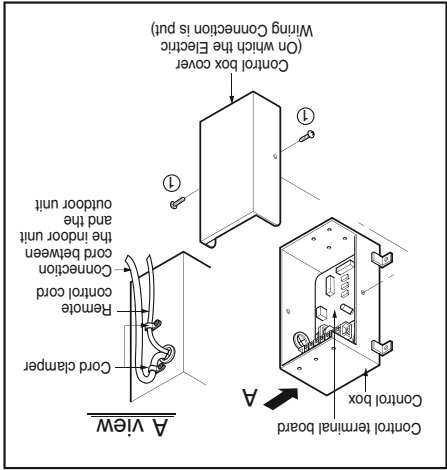
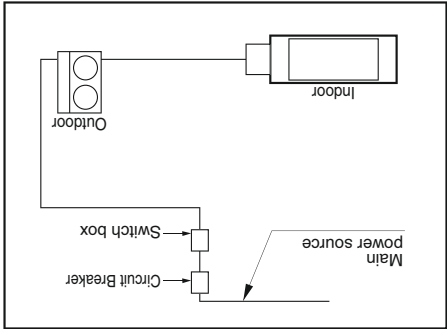
5) Check

■ Compare the flared work with figure. If flare is noted to be defective, cut off the flared section and do flaring work again.



ELECTRICAL WIRING

Perform the electrical wiring work according to the electrical wiring connection.



- All wiring must comply with local requirements.
- Select a power source that is capable of supplying the current required by the air conditioner.
- Use a recognized circuit breaker between the power source and the unit. A disconnection device to adequately disconnect all supply lines must be fitted.

• Capacity of circuit breaker

Capacity	MCB Rating (3 Phase)	5TR	8TR	10TR
		20A	-	-

WIRING CONNECTION

INDOOR UNIT

- Remove the control box cover for electrical connection between the indoor and outdoor unit.
- (Remove crews)
- Use the cord clumper to fix the cord.

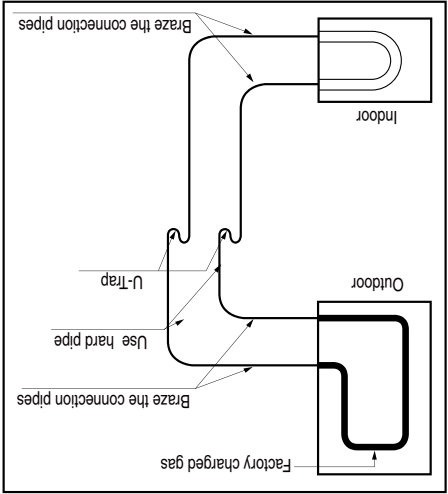
OUTDOOR UNIT

- Remove the control cover for wiring connection.
- Use the cord clumper to fix the cord.
- Earthing work
- Connect the cable of diameter 1.6mm² or more to the earthing terminal provided in the control box and do earthing.

REFRIGERANT PIPING

Perform the work according to the Service Manual or Installation Guide.

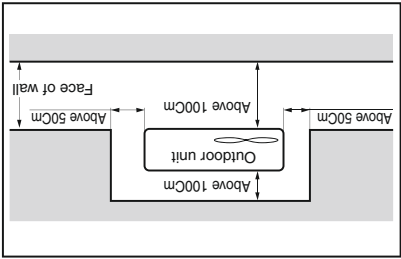
- Braze the joints
- Perform air purge with R-410A or vacuum drying.
- When piping work is finished, check all joints.
- Add refrigerant if piping is over 7.5m. (See page 4 for details)
- U-trap is to be provided for every 5 mtr. increase in the vertical length of the pipe.



INSTALLATION OF OUT DOOR UNIT

Select a location that satisfies the following conditions. Install the unit firmly in place.

- Select the following location
 - A place where the air conditioner can get good ventilation.
 - A place where it shall not annoy the neighbors.
 - A place where the unit shall be leveled and that can support the weight of unit and withstand its vibrations.
- Keep a maintenance space



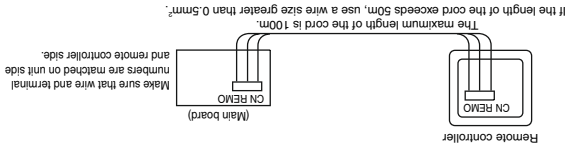
INSTALLATION OF REMOTE CONTROL BOX

Install the remote control box and cord correctly.

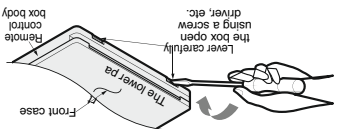
POINT OF REMOTE CONTROLLER INSTALLATION

- Although the room temperature sensor is in the indoor unit, the remote control box should be installed in such places away from direct sunlight and high humidity.
- **ROUTING OF THE REMOTE CONTROL CORD**
 - Keep the remote control cord away from the refrigerant piping and the drain piping.
 - To protect the remote control cord from electrical noise, place the cord at least 5cm away from other power cables. (Audio equipment, Television set, etc)
 - If the remote control cord is secured to a wall, provide a trap at the top of the cord to prevent water droplets from running.
- **INSTALLATION OF THE REMOTE CONTROL BOX**
 - Select places that is not splashed by water.
 - Select control position after receiving customer approval.
 - The room temperature sensor of the thermostat for temperature control is built in the indoor unit.
 - This remote controller equipped with liquid crystal display. If this position is higher or lower, display is difficult to see. (The standard height is 1.2~1.5m high)

ELECTRICAL WIRING TO THE INDOOR UNIT



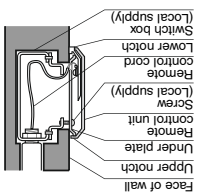
DISASSEMBLING OF THE REMOTE CONTROLLER



WHEN THE REMOTE CONTROL BOX IS INSTALLED WITH THE CORD BURIED.

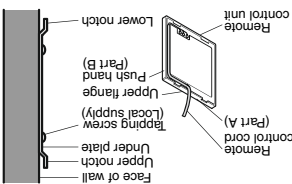
PROCEDURE OF INSTALLATION

1. Fix the under plate on the switch box by screws(Local supply). In this case, fit the under plate on the wall, and be careful of deformation.
2. Receive the remote control cord in the switch box.
3. Hook the remote control unit on the under plate.



FIXING OF REMOTE CONTROL CORD

1. Fix the cord clamps on the wall by $\phi 3$ tapping screws(Local supply).
2. Fix the remote control cord.



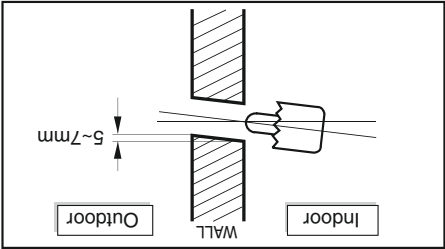
1. Fix the under plate on the wall by self tapping screws (accessory).
2. Make a slit (Part A) at the top side of the remote control box by nipper.
3. Rout the cord as shown in the following figure. In this case, push the cord into the around of case(Part B).
4. Hook the remote control unit on the under plate.

WHEN THE REMOTE CONTROL BOX IS INSTALLED WITH THE CORD EXPOSED.

PROCEDURE OF INSTALLATION

INSULATION, OTHERS

Insulate the joint and tubes completely

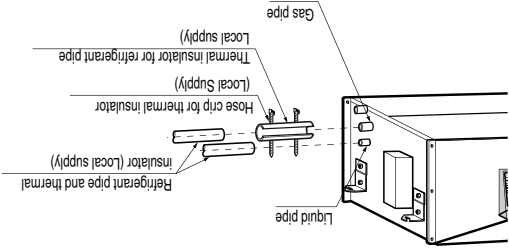


- Drill the piping hole with 70mm dia, hole core drill.
- Piping hole should be slightly slant to the outdoor side.

THERMAL INSULATION

All thermal insulation must comply with local requirement.

INDOOR UNIT



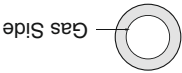
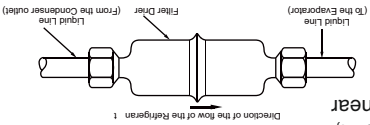
REFRIGERANT PIPE

- Insulate gas side pipe
- No insulation of liquid pipe

Note :

- Filter Driers, recommended to be used with the unit, are to be fitted in the liquid line using flare nuts, near the respective indoor units at a position where they are accessible for servicing.

- The direction of flow of the refrigerant must match the flow direction indicator on the filter driers.



TEST AND CHECK

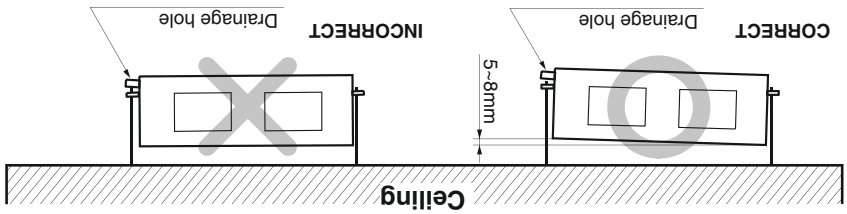
After all workings are finished, check the working and operation.

- Air distribution
- Is the air circulation good?
- Drain
- Is the drainage smoothly and no sweating?
- Gas leakage
- Is the piping connection correct?
- Wiring
- Is the wiring connection correct?

CAUTION

1. Install declination of the indoor unit is very important for the drain of the duct type air conditioner.
2. Minimum thickness of the insulation for the connecting pipe shall be 5mm.

Front of view

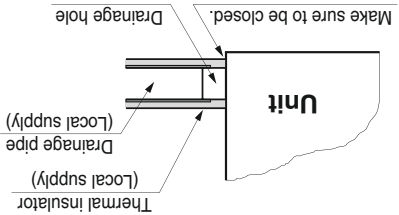


- The unit must be horizontal or declined to the drain hose connected when finished installation.

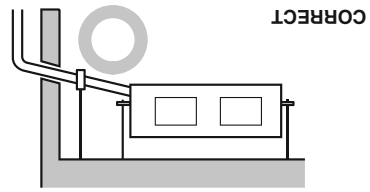
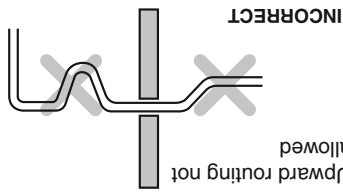
CAUTION FOR GRADIENT OF UNIT AND DRAIN PIPING

Lay the drain hose with a downward inclination so water will drain out.

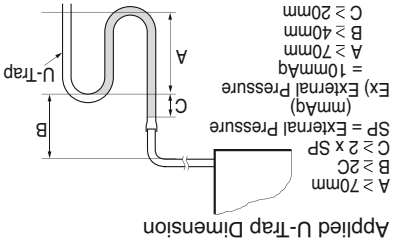
- Always lay the drain with downward inclination (1/50 to 1/100).
- Prevent any upward flow or reverse flow in any part.
- 5mm or thicker formed thermal insulator shall always be provided for the drain pipe.



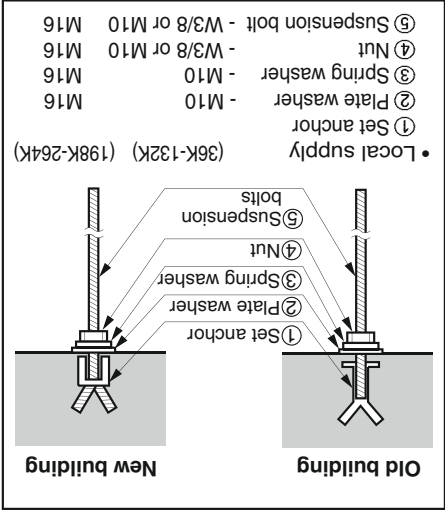
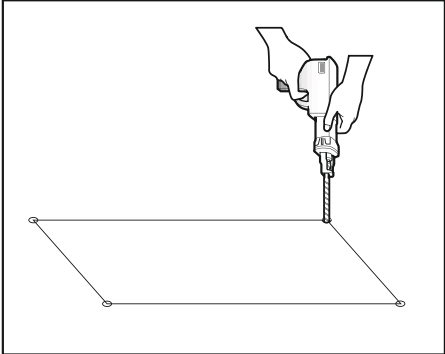
- Upward routing not allowed



- Install the P-Trap (or U-Trap) to prevent a water leakage caused by the blocking off intake air filter.



- Select and mark the position for fixing bolts.
- Drill the hole for set anchor on the face of ceiling.
- Insert the set anchor and washer onto the suspension bolts for locking the suspension bolts on the ceiling.
- Mount the suspension bolts to the set anchor firmly.
- Secure the installation plates onto the suspension bolts (adjust level) using nuts, washers and spring washers.



CAUTION

Tighten the nut and bolt to prevent unit falling.

2. Indoor unit installation

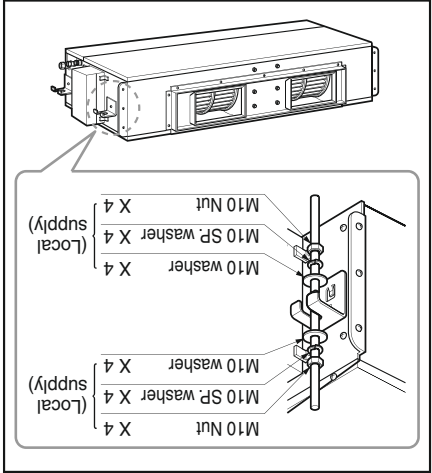
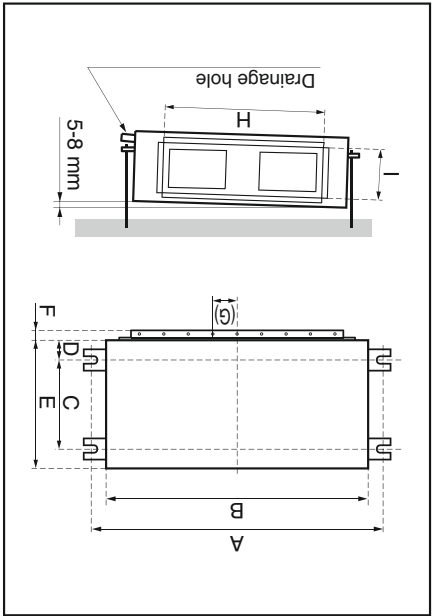
- Installation of Unit
Install the unit above the ceiling correctly.

POSITION OF SUSPENSION BOLT

- Apply a joint-canvas between the unit and duct to absorb unnecessary vibration.
- Apply a filter Accessory at air return hole.
- Install the unit leaning to a drainage hole side as a figure for easy water drainage.

POSITION OF CONSOLE BOLT

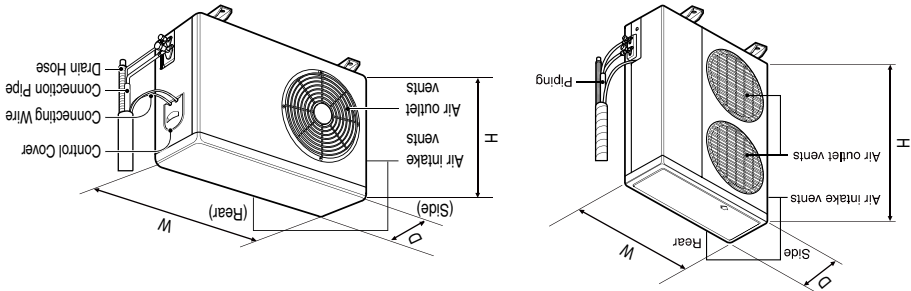
- A place where the unit will be leveled and that can support the weight of the unit.
- A place where the unit can withstand its vibration.
- A place where service can be easily performed.



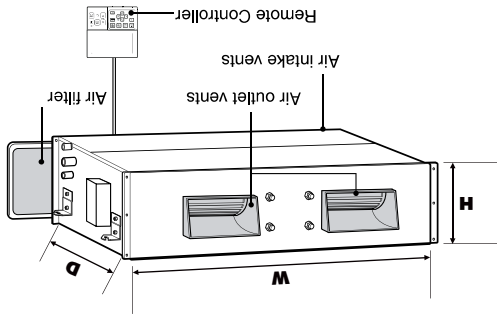
The heat exchanger coils and panel vents of the outdoor unit should be checked regularly. If clogged with dirt or soot, the heat exchanger and panel vents may be professionally steam cleaned.

Note:
Dirty or clogged coils will reduce the operating efficiency of the system and cause higher operating costs.

Outdoor Unit



Indoor Unit



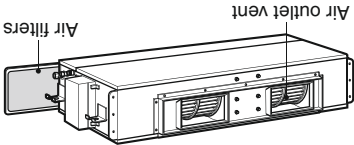
Capacity	Dimension	Model	Indoor Unit (mm)			Outdoor Unit (mm)		
			IDU	W	D	H	ODU	W
5TR		JB-Q60LRA0	1	1230	590	380	1	950
8TR		JB-Q96LRA0	1	1562	688	460	1	950
10TR		JB-Q120LRA0	1	1562	688	460	1	1090
								380
								1625

Caution: Before performing any maintenance, turn off the main power to the system.

Indoor Unit

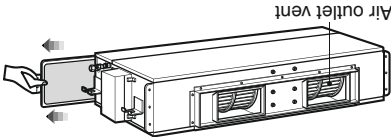
- Grille, Case, and Remote Control: Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

Note:
Supply power must be disconnected before cleaning the indoor unit.



Air Filter:

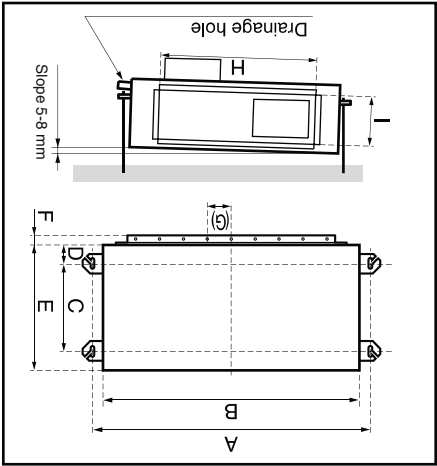
The air filters behind indoor unit (the suction side) should be checked and cleaned once every 2 weeks or more often if necessary.



Indoor Unit Dimensions (mm)

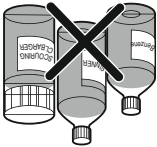
Capacity	Dimension	Model								
		A	B	C	D	E	F	G	H	I
5TR	JB-090LPA40	1291	1230	360	57.5	590	30	130	1005	232
	JB-090LPA40	1625	1562	491.2	81.4	688	30	294	1220	304
8TR	JB-090LPA40	1625	1562	491.2	81.4	688	30	294	1220	304
	JB-090LPA40	1625	1562	491.2	81.4	688	30	294	1220	304
10TR	JB-090LPA40	1625	1562	491.2	81.4	688	30	294	1220	304
	JB-090LPA40	1625	1562	491.2	81.4	688	30	294	1220	304

- Slope of about 5-8 mm is to be provided at the drain hole side of the indoor unit for proper drainage.
- After installation the slope can be measured using a spirit level.



□ Cleaning Tips:

- 1 Clean the filter with a vacuum or warm, soapy water.
- 2 After washing with water, dry well in the shade.
- 3 Re-install the air filter.



- Never use any of the followings:
 - Water hotter than 40°C
 - Volatile substances
 - Could cause deformation and/or discoloration.
 - Could damage the surfaces of the air conditioner.

2. Installation of Indoor, Outdoor Unit

1. Selection of the best location

1) Indoor unit

Select location

Install the air conditioner in the location that

satisfies the following conditions.

- The place shall easily bear a load exceeding

- four times the indoor unit's weight.

- The place shall be able to inspect the unit as

the figure.

- The place where the unit shall be leveled.

- The place shall allow easy water

- drainage.(Suitable dimension "H" is necessary

- to get a slope to drain as figure.)

- The place shall easily connect with the

- outdoor unit.

- The place where the unit is not affected by an

- electrical noise.

- The place where air circulation in the room will

- be good .

- There should not be any heat source or steam

- near the unit

2) Outdoor unit

- If an awning is built over the unit to prevent

- direct sunlight or rain exposure, be careful

- that heat radiation from the condenser is not

- restricted.

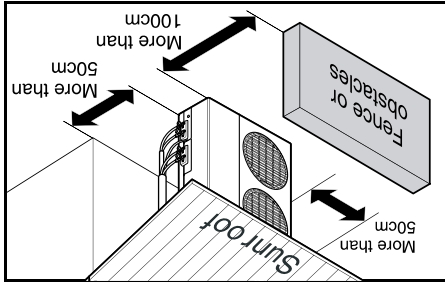
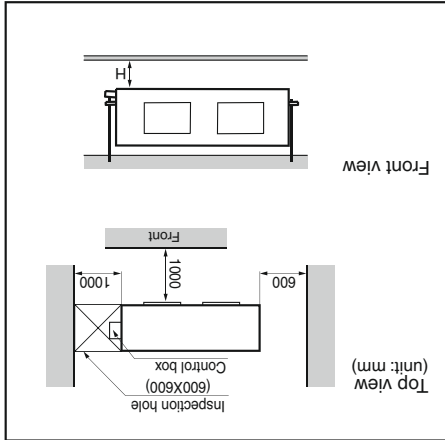
- There should not be any animals or plants

- which could be affected by hot air

- discharged.

- Ensure the spaces indicated by arrows from

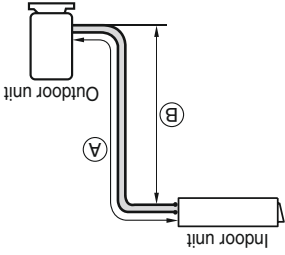
- the wall, ceiling, fence or other obstacles.



3) Piping length and the elevation

Capacity	Indoor Unit (nos)	Outdoor Unit (nos)	Pipe Size (Diameter : Ø)	Length A(m)	Elevation B(m)	*Additional refrigerant (g/m)
5TR	1	1	3/4"	Standard	5	30
8TR	1	1	7/8"	Standard	5	30
10TR	1	1	1"	Standard	5	30
			Gas	Max.	Max.	40
			Liquid	Max.	Max.	40
			1/2"	7.5	50	40
			3/8"	7.5	50	40
			7/8"	7.5	50	40

• Capacity is based on standard length and maximum allowance length is on the basis of reliability.



1. The following should be always observed for safety

- Please report to or take consent by the supply authority before connecting to the system.
- Be sure to read "THE FOLLOWING SHOULD BE ALWAYS OBSERVED FOR SAFETY" before installing the air conditioner.
- Be sure to observe the cautions specified here as they include important items related to safety.
- The indications and meanings are as follows.

WARNING 	Could lead to death, serious injury, etc.
CAUTION 	Could lead to serious injury in particular environments when operated incorrectly

- After reading this manual, be sure to keep it together with the owner's manual in an accessible place.

WARNING

Do not install it yourself (customer).	• Incomplete installation could cause injury due to fire, electric shock or falling from the unit. • If you purchased the unit or special installer, consult the dealer from whom you purchased the unit or special installer.
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Install the unit securely in a place which can bear the weight of the unit.	• When installed in an insufficient strong place, the unit could fall causing injured.
--	--

Use the specified wires to connect the indoor and the outdoor units securely and attach the wires firmly to the terminal board connecting sections so the stress of the wires is not applied to the sections.	• Incomplete connecting and fixing could cause fire.
--	--

Check that the refrigerant gas do not leak after installation is completed.	• The use of defective parts could cause an injury or leakage of water due to a fire, electric shock, the unit falling, etc.
--	--

CAUTION

Perform the drainage/piping work securely according to the installation manual.	• If there is a defect in the drainage/piping work, water could drop from the unit and household goods could be wet and damaged.
Do not install the unit in a place where an inflammable gas leaks.	• If gas leaks and accumulates in the area surrounding the unit, it could cause an explosion.

OUT-LINE OF INSTALLATION

1. The following should be always observed for safety..... 3

Installation works	Installation Parts	Required tools
--------------------	--------------------	----------------

2. Installation of Indoor, Outdoor Unit..... 4

- Four Type "A" screws
- Connecting cable
- Level
- Screw driver
- Electric drill
- Hole core drill (ø70mm)

3. Connecting Pipes to the Indoor Unit..... 14

- Pipes: Gas side 3/4"
- Liquid side 1/2", 3/8"
- Insulated drain hose
- Insulation materials
- Flaring Tools set

4. Connecting Pipes to the Outdoor Unit..... 16

- Additional Drain hose (Inner Dia.....25mm)

5. Checking the Drainage..... 16

6. Connecting Cables between Indoor Unit and Outdoor Unit..... 17

- Screw driver

7. Air Purging of the Connecting Pipes and the Indoor Unit..... 20

- Hexagonal Wrench (4mm/5mm)
- Gas-leak Detector

AIR CONDITIONER INSTALLATION MANUAL

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

CEILING CONCEALED DUCT

MFL37347412

