

OWNER'S MANUAL

AIR CONDITIONER

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

TYPE : LO-STATIC CEILING DUCT TYPE AIR CONDITIONER
For Single LO-Static duct models



MFL62760204

P/No. : MFL62760204_v1

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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

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.*



CAUTION

- 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.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.



To prevent injury and property damage, follow these instructions.

⚠ Incorrect operation due to ignoring instructions will cause harm or damage, the seriousness of which is indicated by the following symbols.



WARNING

This symbol shows the possibility of death or serious injury.



CAUTION

This symbol indicates the possibility of injury or damage to property.



Never Do This



Always Do This

Installation precautions

⚠ **WARNING**

■ **Do not install, remove and reinstall the unit by yourself.**

- Improper installation will cause water leakage, electrical shock, or fire. Please consult authorized dealer or specialist for the installation work. Please note fault caused by improper installation is not covered by warranty.
- Unit must be installed in an easily accessible area. Any additional cost required to hire a special equipment to service the unit will be the responsibility of the customer.

⚠ **WARNING**

⊘ **Do not damage or use an unspecified power cord.**

- It will cause electrical shock or fire.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

⊘ **Do not operate switches with wet hands.**

- It may cause electrical shock.

ⓘ **Plug in the power plug properly.**

- Otherwise, it will cause electrical shock or fire due to heat generation.

⊘ **Do not operate or stop the unit by inserting or pulling out the power plug.**

- It will cause electrical shock or fire due to heat generation.

⊘ **Do not insert your finger or stick, etc. into the air inlet/air outlet.**

- Since the fan rotates at high speed, this may cause an injury or damage the unit.

⊘ **Do not expose the skin to cool air directly for a long time.**

- This could damage your health.

ⓘ **When an abnormality (smell of burning, etc) occurs, stop the air conditioner, and turn off the breaker.**

- If the unit continues to be operated in an abnormal condition, it may cause a fire, trouble, etc. In this case, consult your dealer.

ⓘ **Repair or relocation should not be done by the customer.**

- If this is done incorrectly, it may cause a fire, electric shock, injury by dropping of the unit, water leakage, etc. Consult your dealer.

⚠ CAUTION

- 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 infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.

⚠ CAUTION

⊘ Do not clean the air conditioner with water.

- Water may enter the unit and degrade the insulation. It may cause an electric shock.

⊘ Ventilate well when used together with a stove, etc.

- An oxygen shortage may occur.

ⓘ When the unit is to be cleaned, switch off, and turn off the breaker.

- Since the fan rotates at high speed during operation, it may cause an injury.

⊘ Do not put a stove, etc. where is exposed to direct air flow.

- It may cause imperfect combustion.

⊘ When the unit is not going to be used for a long time, turn off the breaker.

- It may cause an injury.

⊘ Do not step on the outdoor unit and do not put anything on it.

- It may cause an injury through dropping or falling down.

⊘ Do not operate for a long time in high humidity, e.g. leaving a door or window open.

- In the cooling mode, if it is operated in a room with high humidity (80%r.h. or more) for a long time, water condensed in the air conditioner may drop and may wet and spoil furniture, etc.

ⓘ Do not step onto an unstable bench when attaching/detaching the panel.

- It may cause an injury, etc. by falling down.

⊘ Do not use for special purposes.

- Do not use this air conditioner to preserve precision devices, food, animal, plants and art objects. It may cause deterioration of quality, etc.

⊘ If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.

- It will cause electrical shock or fire.

ⓘ When the air filter is to be removed, do not touch the metal parts of the indoor unit.

- It may cause an injury.

⊘ Do not press the screen using powerful pressure or select two buttons.

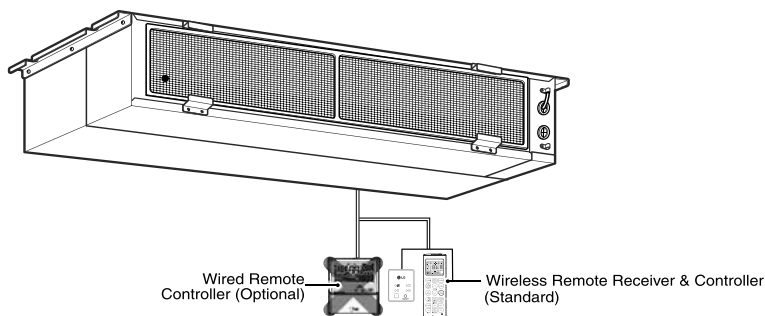
- It will cause product breakdown or malfunction.

⊘ Do not touch or pull the lead wire with wet hands.

- It will cause product breakdown or electric shock.

2. Operating Instructions

A) Indoor Unit, Outdoor Unit



Operation of Indication Lamps

1 Emergency Operation button : Turns the indoor unit on or off even when remote control is not working.

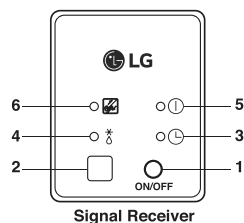
2 Signal Detector : Receives the signal from remote control

3 Timer lamp (Green) : Lights up during the timer operation.

4 Hotstart lamp (Orange) : Available only for the heat pump models, not cooling only models.

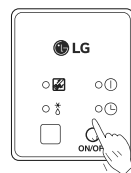
5 System On/Off lamp (Red) : Lights up during system controller operation.

6 Filter Sign lamp (Green) : Lights up after 2,400 hours from the time of first power on operation.



Test Run Mode

After installing the product, you must run a Test Run mode. Press the Emergency Operation button for 5 seconds, until the LED flickers. Then the indoor unit, duct runs cooling mode for 18 minutes, where the desired temperature is 18 °C and the Wind strength is high.

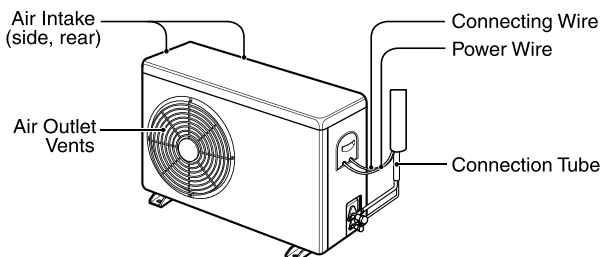


Display

- When receiving signals from the wireless remote controller, System On/Off LED – No.5 LED flickers once.
- When receiving signals in Locking mode on all or each of indoor units , System On/Off LED flickers 5 times.

Example condition	System On/Off LED Operation
Receive signals in operation-off	Once flickering
Press Forced Operation button in central controller locking mode	5 times flickering

Outdoor Unit



Cooling model: Low static Type Air Conditioner for cooling

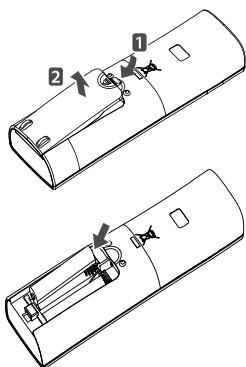
B) Remote Control Preparation

How to insert the Batteries

Remove the battery cover by pulling it according to the arrow direction.

Insert new batteries making sure that the (+) and (-) of battery are installed correctly.

Reattach the cover by sliding it back into position.

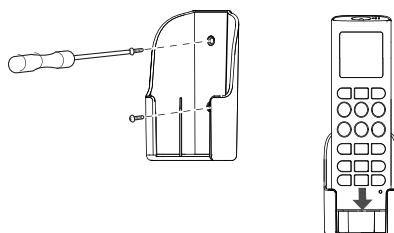


Wireless Remote Controller Maintenance

Choose a suitable place where its safe & easy to reach.

Fix the holder to wall etc with the supplied screws firmly.

Slide the remote controller inside the holder.



! NOTE

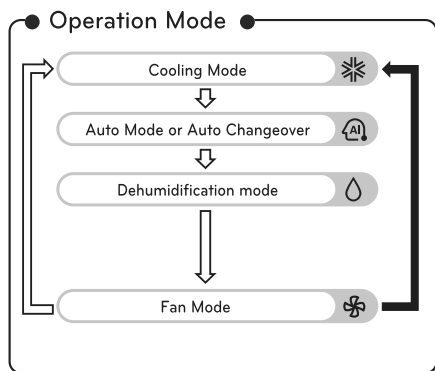
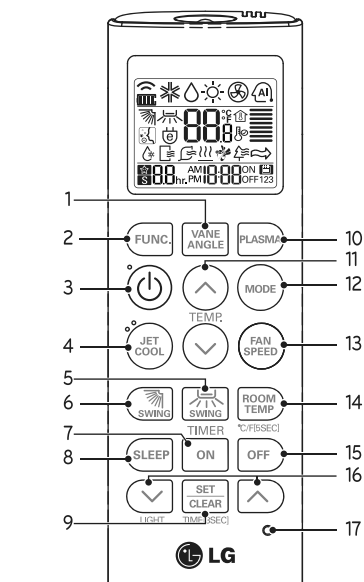
- Always use/replace both batteries of same type.
- If the system is not to be used for a long time, remove the batteries to save their working life.
- If the display screen of remote controller starts fading replace both of the batteries.

! NOTE

- Remote controller should never be exposed to direct sunlight.
- Signal transmitter & receiver should always be clean for proper communication. Use a soft cloth to clean them.
- In case some other appliances also get operated with remote control, change their position or consult your service-man.

C) Remote Control Operations

This air-conditioner is equipped with wireless remote controller basically. But if you want to be available with wired remote controller, you pay for it.



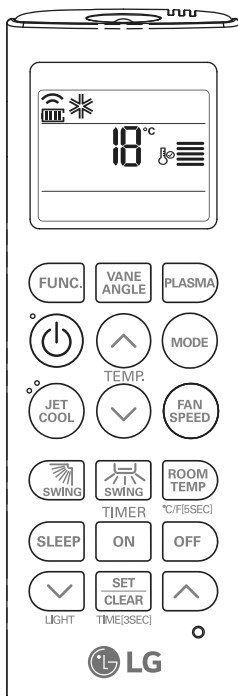
- 1 *VANE ANGLE Button
Used to set each vane angle.
- 2 *FUNCTION SETTING Button
Used to set or clear Auto Clean, Smart Clean, Electric heater or Individual vane angle control.
- 3 ON/OFF Button
Used to turn on/off the unit.
- 4 *JET COOL Button
Speed cooling operates super high fan speed.
- 5 *LEFT/RIGHT AIRFLOW Button (OPTIONAL)
Used to set the desired left/right(horizontal) airflow direction.
- 6 *UP/DOWN AIRFLOW Button
Used to stop or start louver movement and set the desired up/down airflow direction.
- 7 ON TIMER Button
Used to set the time of starting operation.
- 8 SLEEP TIMER Button
Used to set the time of sleeping operation.
- 9 SET / CLEAR Button
Used to set/clear the timer.
Used to set the current time(if it input for 3sec.)
- 10 PLASMA Button (OPTIONAL)
Used to start or stop the plasma-purification function.
- 11 ROOM TEMPERATURE SETTING Button
Used to select the room temperature.
- 12 OPERATION MODE SELECTION Button
Used to select the operation mode.
- 13 INDOOR FAN SPEED SELECTION Button
Used to select fan speed in three steps low, medium and high.
- 14 ROOM TEMPERATURE CHECKING Button
Used to check the room temperature.
- 15 OFF TIMER Button
Used to set the time of stopping operation.
- 16 TIMER SETTING(Up/Down)/LIGHT Button
Used to set the timer.
Used to adjust the brightness.(if it is not time adjust mode)
- 17 RESET Button
Used to reset the remote controller.

* Function not applicable for Lo-Static Duct Model.



Cooling Mode

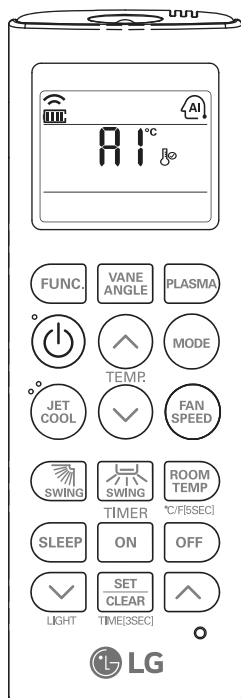
- Standard Operation



1. Press the ON/OFF button.
The unit will respond with beep sound.
2. Press MODE button to select Cooling Mode.
3. Set the desired temperature by pressing TEMP button.
Press ROOM TEMPERATURE CHECKING button to check the room temperature.
When setting the desired temperature is higher than room temperature, cooling wind isn't blow out.
 - Setting Temp. Range : 18~30°C(64~86°F)



Auto Operation Mode



<For Cooling Model>

The temperature and fan speed are automatically set by the electronic controls based on the actual room temperature. If you feel hot or cold, press TEMPERATURE SETTING buttons for more cooling or heating effect.

You cannot switch the indoor fan speed. It has already been set by the Auto Operation Mode rule.

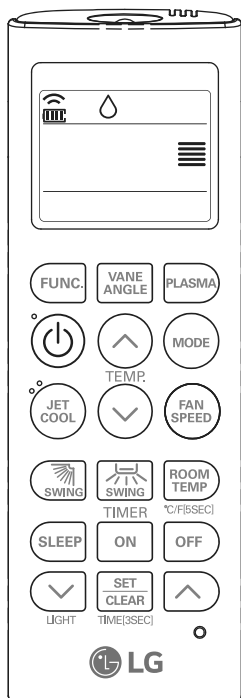
* Please select the code depend on your feeling.

Code	Feel
2	Cold
1	Slightly cool
0	Neutral
-1	Slightly warm
-2	Warm

1. Press the ON/OFF button.
The unit will respond with beep sound.
2. Press MODE button to select Auto Operation Mode.
3. Set the desired temperature.



Dehumidification Mode



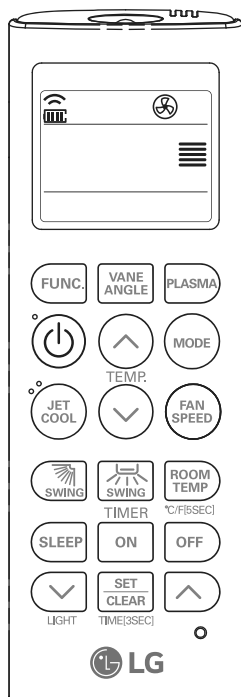
During Dehumidification Mode

- If you select the dehumidification mode on the operation selection button, the indoor unit starts to run the dehumidification function, automatically setting the room temp. and air volume to the best condition for dehumidification based on the sensed room temp. In this case, the setting temp. is not displayed in the Remote Controller and you are not able to control the room temp. either.
- During the healthy dehumidification function, the air volume is automatically set according to the algorithm responding to the current room temp. and makes the room condition healthy and comfortable even in the high humidity season.

1. Press the ON/OFF button.
The unit will respond with beep sound.
2. Press MODE button to select Dehumidification Mode.
3. Set the fan speed. You can select the fan speed in four steps - low, medium, high, or chaos. Each time the button is pressed, the fan speed mode is shifted.



Fan Mode



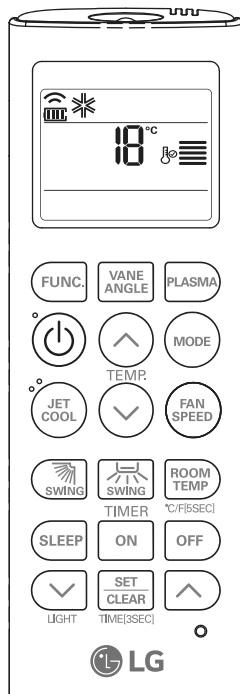
During Fan Mode

- The outdoor compressor doesn't work. Have a function to circulate the indoor air as it sends out the air that doesn't have much temperature difference with indoor.

1. Press the ON/OFF button.
The unit will respond with beep sound.
2. Press MODE button to select Fan Mode.
3. Set the fan speed again. You can select the fan speed in three steps – low, medium and high. Each time the button is pressed, the fan speed mode is shifted.



Temperature Setting/Room Temperature Checking



We can simply adjust the desired temperature

- Press the buttons to adjust the desired temperature



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



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

Room temp: Indicate the current room temperature

Set temp: Indicate the temperature that user want to set

<Cooling Mode>

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

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.

Celsius/Fahrenheit Switching

Press the °C/°F SWITCH button to change from Celsius to Fahrenheit or from Fahrenheit to Celsius.

Whenever press TEMPERATURE SETTING button in Fahrenheit mode, the temperature will increase/drop 1°F.



Timer

Setting the Current Time

1. Press the SET/CLEAR button for 3 seconds.
2. Press TIME SETTING buttons until the desired time is set.
3. Press the SET / CLEAR button.

! NOTE

Check the indicator for A.M. and P.M.

Timer Setting

1. Press the TIMER button to turn timer on or off.
2. Press TIME SETTING buttons until the desired time is set.
3. Press the SET / CLEAR button.

! NOTE

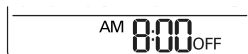
Select one of the following 3 types of operation.



Timer Sleep



Timer ON



Timer OFF

To cancel the Timer Setting

- If you wish to cancel all timer setting, press the SET/CLEAR.
- If you wish to cancel each timer setting, press the TIMER button to turn timer sleep or on or off as you want.
And then press the SET/CLEAR button aiming the remote controller at the signal receptor.
(The timer lamp on the air conditioner and the display will go off.)

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

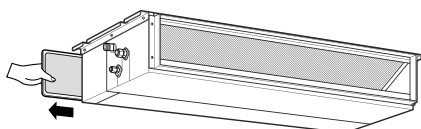
Indoor Unit

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.

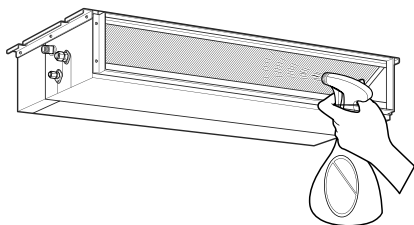
Note:

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.



- 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.

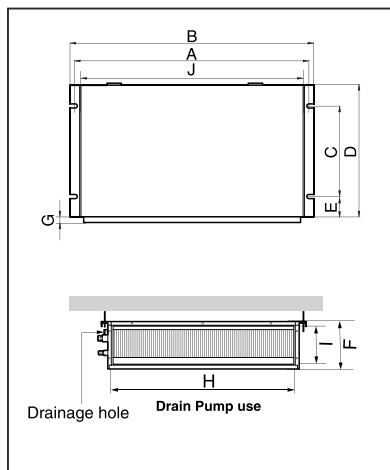


- 1 Clean the filter with a vacuum or warm, soapy water.
 - If very dirty, wash with a solution of detergent in lukewarm water.
 - If hot water (50°C or more) is used, filter may be deformed.
- 2 After washing with water, dry well in the shade.
- 3 Re-install the air filter.

Indoor Unit Dimensions (mm)

(Unit:mm)

Dimension Capacity(Btu/h)	A	B	C	D	E	F	G	H	I	J
18/24/ Btu/h	1130	1180	383	575	93	190	21	1065	163	1100



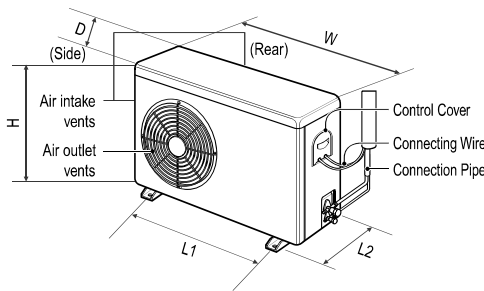
Outdoor Unit

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.

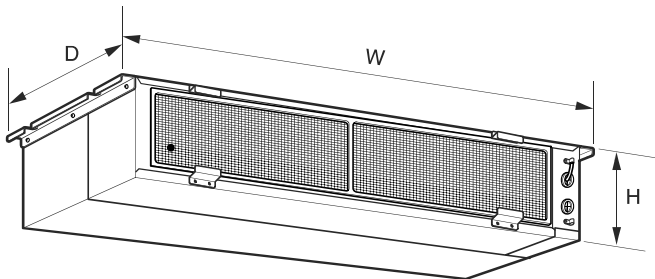
Note:

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

Outdoor Unit



Indoor Unit



Model	Capacity	Indoor dimension			Outdoor Dimension				
		W	D	H	W	D	H	L1	L2
JB-Q18GB2A0	1.5TR	1100	575	190	800	260	555	590	305
JB-Q24GB2A0	2.0TR	1100	575	190	800	260	555	590	305
JB-Q18GB2A1	1.5TR	1100	575	190	770	288	545	560	330
JB-Q18GB2A2	1.5TR	1100	575	190	770	288	545	560	330
JB-Q24GB2A1	2.0TR	1100	575	190	800	260	555	590	305
JB-Q18GB2A3	1.5TR	1100	575	190	770	288	545	560	330
JB-Q24GB2A3	2.0TR	1100	575	190	800	260	555	590	305

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 on Air circulation mode (Refer to page 15) for 2 to 3 hours.

- This will dry out the internal parts.

- 2 Turn off the circuit breaker.

CAUTION

Turn off the circuit breaker when the air conditioner is not going to be used for a long time.
Dirt may collect and may cause a fire.

When the air conditioner is to be used again.

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

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.

Operation Tips

Do not overcool the room.

This is not good for the health and wastes electricity.

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 blinds or curtains closed.

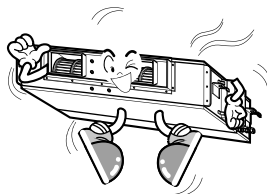
Do not let direct sunshine enter the room when the air conditioner is in operation.

Ventilate the room occasionally.

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

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.



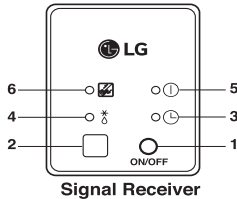
Self-diagnosis Function

Error Indicator

- This function indicates the types of failure in self-diagnosis and occurrence of failure for air condition.
- The error number will be displayed on wired remote controller as well as the IR receiver.
- The expression related with error number is tabulated in the table of indoor unit manual.
- If more than two troubles occur simultaneously, lower number of error code will be displayed first.
- If the cause of error is removed, the error display will be stopped automatically.

Error Display

- Each of three LEDs – No.3, 5, 6 indicates error number.



Error code	LED Display Operation		
	No.3	No.6	No.5
05	-	-	5 times flickering
194	Once flickering	9 times flickering	4 times flickering

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



- 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. Dos

- 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't

- 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.
- Any disposal through unauthorized agencies/person will attract action under Environment (Protection) Act 1986.
 - 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.
 - To locate a nearest collection centre or call for pick-up (limited area only) for disposal of this appliance, please contact Toll Free No. 1800-180-3575 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 (ई-अपशिष्ट नियम के अनुसार)



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

2. करें-

- उपकरण को सिर्फ अधिकृत पुनः नवीनीकरणकर्ता को ही निपटारा करने हेतु हस्तान्तरित करें।

ख- जब उपकरण कार्यरत न हो इसे अलग क्षेत्र में रखें ताकि उपकरण से होने वाली दुर्घटनाओं से बचा जा सके।

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 भी कबाड़ीवाला/संग्रह वाला/अनाधिकृत संस्था को न दें।

ग- इस उपकरण को किसी परेज अपशिष्ट सामान के साथ मिलाकर न रखें।

घ- उपकरण के बर्तन हुए या आंतरिक पुरजों को खुले क्षेत्र में न रखें।

- यदि किसी अनाधिकृत विभाग या व्यक्ति के द्वारा निपटारा किया जाता है तो यह पर्यावरण (सुरक्षा) धारा 196A के अन्तर्गत आता है।

- दुर्घटनाग्रस्त टूट/कुट तथा अव्यवस्थित रख-रखाव से बचे।

क- यदि बैटरियों का निपटारा अशुद्ध रूप से कर रहे हैं, तो यह वातावरण को बहुत नुकसान पहुँचा सकता है। रसायनिक उपकरण खतरनाक होते हैं। जो रसायन और धातु 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 गैसें दे सकता है जो स्वास्थ्य के लिए हानिकारक हैं।

ख- रेफीजेंट (R410A) कम दबाव पर दहनशील हो सकती है तथा इसे स्वास्थ्य पर दुस्रभाव पड़ सकता है जैसे चक्कर आना, सिर दर्द और हृदय गति रुकना।

- उपरोक्त पाठ्यों के निपटारन के लिए नजदीकी निपटारन संस्थान (संकीर्ण क्षेत्र) में काल करें। अधिक जानकारी के लिए हमारे टोल फ्री नम्बर 1800-180-3575 पर काल करें। सभी संग्रहण केन्द्र व पिक-अप की सुविधाएं धर्दे-पाटी से जो "LG Electronics India Pvt. Ltd" को अपनी सेवाएं प्रदान कर रही हों, से करवाएं।

अधिक जानकारी के लिए देखें वेबसाइट : <http://www.lge.com/in>

Error Diagnosis

Sr. No.	ERROR CODE	DIAGNOSIS	DESCRIPTION
1	CH-01	Check room thermistor	Recover after 5 seconds of operation when respective thermistor healthy
2	CH-02	Check pipe thermistor (CN-Pipe/In)	Recover after 3 seconds of operation when respective thermistor healthy
3	CH-03	Check Wired Remote Connection with PCB	Check wired remote cable for cut/loose contact.
4	CH-04	Check float sensor / Jumper	Recover after 4 minutes of operation when float sensor / Jumper healthy
5	CH-05	Check DIP Switch Comm (Yes/No)	Check DIP Switch setting and Power Reset.
6	CH-06	Check pipe thermistor (CB-Pipe/Out)	Recover after 3 seconds of operation when respective thermistor healthy.
7	CH-09	Check Option PCB (EPROM)	Check Interconnection of Option PCB and Power Reset
8	CH-10	Check for BLDC Motor Fan Lock	BLDC Motor not operation.

TROUBLESHOOTING GUIDE

Please first check the items below for troubleshooting before consulting a service center.

Symptoms	Check-up	Management
Abnormal operating conditions	Is air-conditioner's power on?	Please check up circuit breaker.
	Are air-conditioner and accessory properly connected with cable?	Please connect air-conditioner and IR receiver cable.
	Is IR receiver's LED flicking when using wireless remote controller?	- Please connect air-conditioner and IR receiver cable. - Please check the battery of a wireless remote controller. - Please check the distance or obstacle between wireless remote controller and IR receiver.
It doesn't operate reservation.	Did you correctly setup time?	Please set up current time correctly.
It doesn't release cool wind.	Did you correctly make a reservation?	Please set up again referring to the manual.
	Is desired temperature setup lower than current temperature?	Please set up desired temperature lower than current temperature.

Troubleshooting Tips! Save time and money!

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

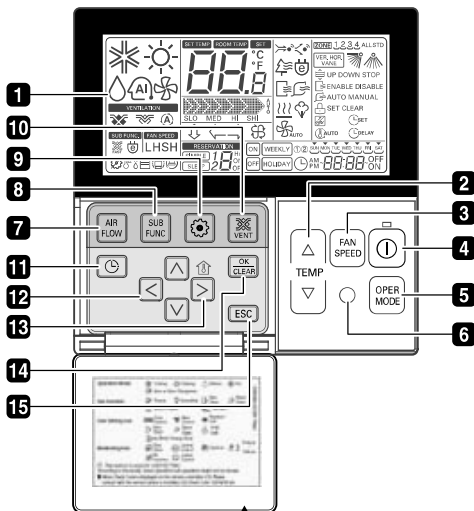
Case	Explanation
The air conditioner does not operate.	• Have you made a mistake in timer operation? • On first starting, the indoor unit operates in fifteen seconds. • Has the fuse blown or has the circuit breaker been tripped? • Check power supply for single/reverse phase, voltage imbalance.
The room 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 condensate 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 setting 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/contraction of the inlet grille, etc. due to changes of temperature.
Remote control display is faint, or no display at all.	• Has the circuit breaker been tripped?

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.

Wide LCD Wired Remote Controller (Optional)



Please attach the inform label inside of the door.
Please choose proper language depend on your country.

- 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.





1. With the MODE button pressed, press the RESET button.
2. By using the temperature setting button, set the indoor unit address.
• Setting range : 00 ~ FF
3. After setting the address, press the ON/OFF button toward the indoor unit 1 time.
4. The indoor unit will display the set address to complete the address setting.
• The address display time and method can differ by the indoor unit type.
5. Reset the remote controller to use the general operation mode.

Installer Setting - Checking Address of Central Control

1. With the FUNC. button pressed, press the RESET button.
2. Press the ON/OFF button toward the indoor unit 1 time, and the indoor unit will display the set address in the display window.
- The address display time and method can differ by the indoor unit type.
3. Reset the remote controller to use the general operation mode.

Installer Setting Code Table

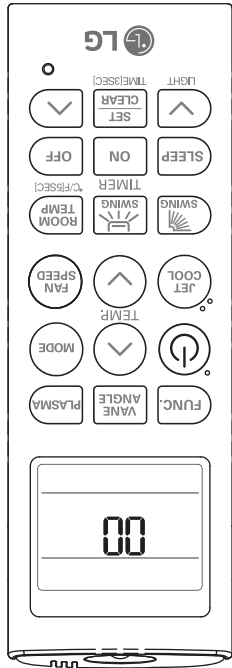
Function	Function Code	Setting Valve	Remocon Code	Display
Auto on/off sensor operate time	0	0 min.	E115	1.6
	1	10 mins.	E116	1.7
	2	30 mins.	E117	1.8
	3	60 mins.	E118	1.9
	0	deselect the setting	E11A	1.B
Primary Heater	1	Setting	E119	1.A
Ducted internal heater	1	Setting	E12A	2.A
Cooling fan thermo off control	0	low	E12B	2.B
	1	off	E12C	2.C
	2	setting air flow	E12D	2.D
Operate / Stop blackout compensation	0	set to blackout compensation	E12E	2.E
	1	set to slave	E12F	2.F
To setting Dry contact install or not	0	Same as before	E14D	4.D
	1	install	E14E	4.E
	2	Uninstall	E14F	4.F

Installer setting mode is to set the detail function of the remote controller. If the installer setting mode is not set correctly, it can cause problems to the product, user injury or property damage. This must be set by an certificated installer, and any installation or change that is carried out by a non-certificated person should be responsible for the results. In this case, free service cannot be provided.

CAUTION 

1. With the JET COOL button pressed, press the RESET button.
2. By using the TEMPERATURE SETTING button, set function code and setting value. (Please refer the Installer Setting Code Table.)
3. Press the ON/OFF button toward the indoor unit 1 time.
4. Reset the remote controller to use the general operation mode.

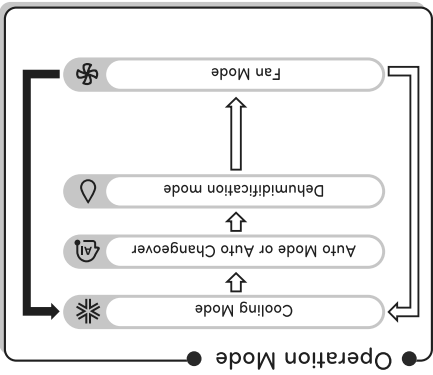
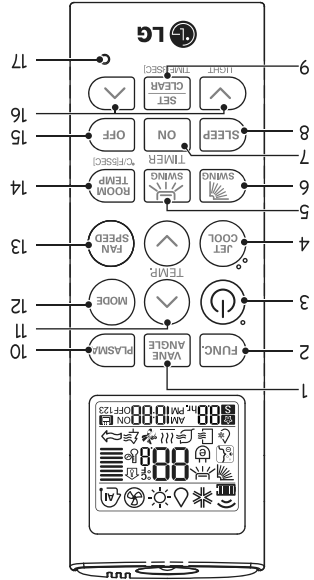
Refer to the Installer Setting Code Table on the next page.



C) Remote Control Operations

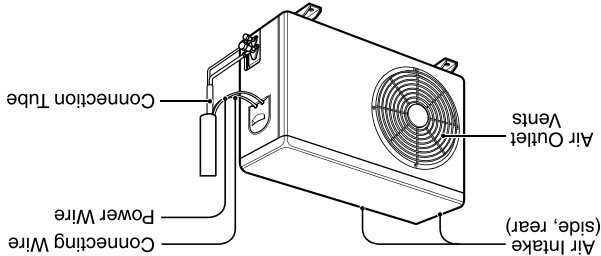
This air-conditioner is equipped with wireless remote controller basically. But if you want to be available with wired remote controller, you pay for it.

- 1 * VANE ANGLE Button
Used to set each vane angle.
- 2 * FUNCTION SETTING Button
Used to set or clear Auto Clean, Smart Clean, Electric heater or individual vane angle control.
- 3 ON/OFF Button
Used to turn on/off the unit.
- 4 * JET COOL Button
Used to turn on/off the unit.
- 5 * LEFT/RIGHT AIRFLOW Button (OPTIONAL)
Used to set the desired left/right(horizontal) airflow direction.
- 6 UP/DOWN AIRFLOW Button
Used to stop or start louver movement and set the desired up/down airflow direction.
- 7 ON TIMER Button
Used to set the time of starting operation.
- 8 SLEEP TIMER Button
Used to set the time of sleeping operation.
- 9 SET / CLEAR Button
Used to set/clear the timer.
- 10 PLASMA Button (OPTIONAL)
Used to start or stop the plasma-purification function.
- 11 ROOM TEMPERATURE SETTING Button
Used to select the room temperature.
- 12 OPERATION MODE SELECTION Button
Used to select the operation mode.
- 13 INDOOR FAN SPEED SELECTION Button
Used to select fan speed in three steps low, medium and high.
- 14 ROOM TEMPERATURE CHECKING Button
Used to check the room temperature.
- 15 OFF TIMER Button
Used to set the time of stopping operation.
- 16 TIMER SETTING(Up/Down)/LIGHT Button
Used to set the timer.
- 17 RESET Button
Used to reset the remote controller.



* Function not applicable for Lo-Static Duct Model.

Outdoor Unit

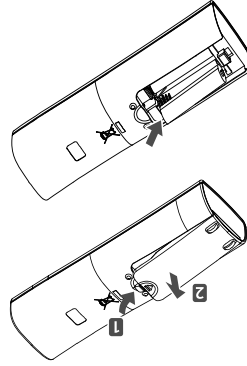


Cooling model: Low static Type Air Conditioner for cooling

B) Remote Control Preparation

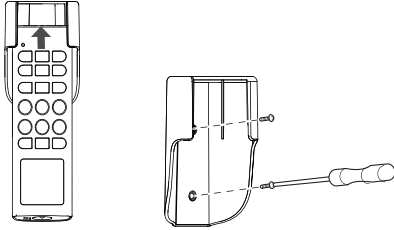
How to insert the Batteries

Remove the battery cover by pulling it according to the arrow direction.
Insert new batteries making sure that the (+) and (-) of battery are installed correctly.
Reattach the cover by sliding it back into position.



Wireless Remote Controller Maintenance

Choose a suitable place where its safe & easy to reach.
Fix the holder to wall etc with the supplied screws firmly.
Slide the remote controller inside the holder.



NOTE

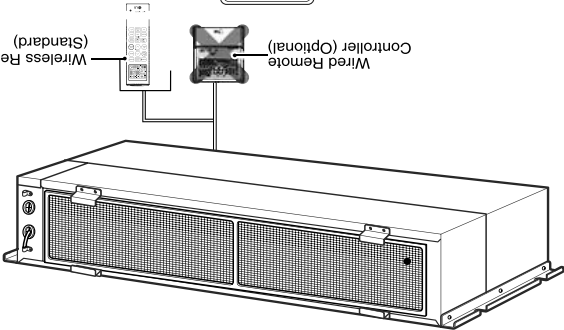
- Remote controller should never be exposed to direct sunlight.
- Signal transmitter & receiver should always be clean for proper communication. Use a soft cloth to clean them.
- In case some other appliances also get operated with remote control, change their position or consult your serviceman.

NOTE

- Always use/replace both batteries of same type.
- If the system is not to be used for a long time, remove the batteries to save their working life.
- If the display screen of remote controller starts, fading replace both of the batteries.

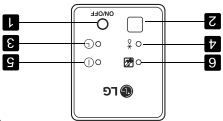
8. Operating Instructions

A) Indoor Unit, Outdoor Unit



Operation of Indication Lamps

Signal Receiver



1 Emergency Operation button : Turns the indoor unit on or off even when remote control is not working.

2 Signal Detector : Receives the signal from remote control.

3 Timer lamp (Green) : Lights up during the timer operation.

4 Hotstart lamp (Orange) : Available only for the heat pump models, not

cooling only models.

5 System On/Off lamp (Red) : Lights up during system controller operation.

6 Filter Sign lamp (Green) : Lights up after 2,400 hours from the time of first power on operation.

Test Run Mode

After installing the product, you must run a Test Run mode. Press the Emergency Operation button for 5 seconds, until the LED flickers. Then the indoor unit, duct runs cooling mode for 18 minutes, where the desired temperature is 18°C and the Wind strength is high.

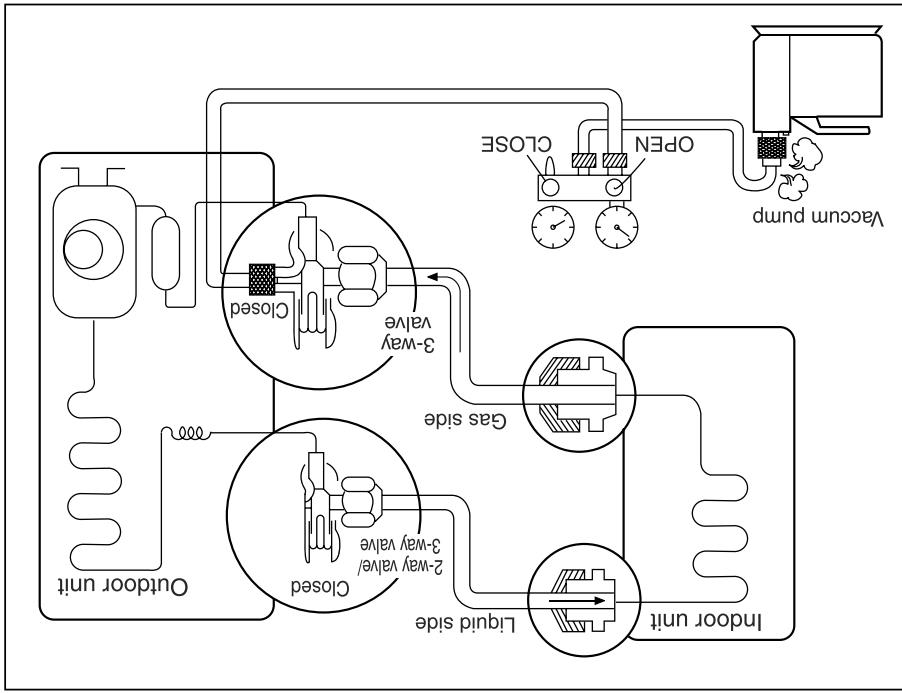
Display

- 1 When receiving signals from the wireless remote controller, System On/Off LED - No.5 LED flickers once.
- 2 When receiving signals in Locking mode on all or each of indoor units , System On/Off LED flickers 5 times.

Example condition	System On/Off LED Operation
Receive signals in operation-off	Once flickering
Press Forced Operation button in central controller locking mode	5 times flickering

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)



>> Piping Routine

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.)

In case of the Outdoor unit being installed below position of the Indoor unit.

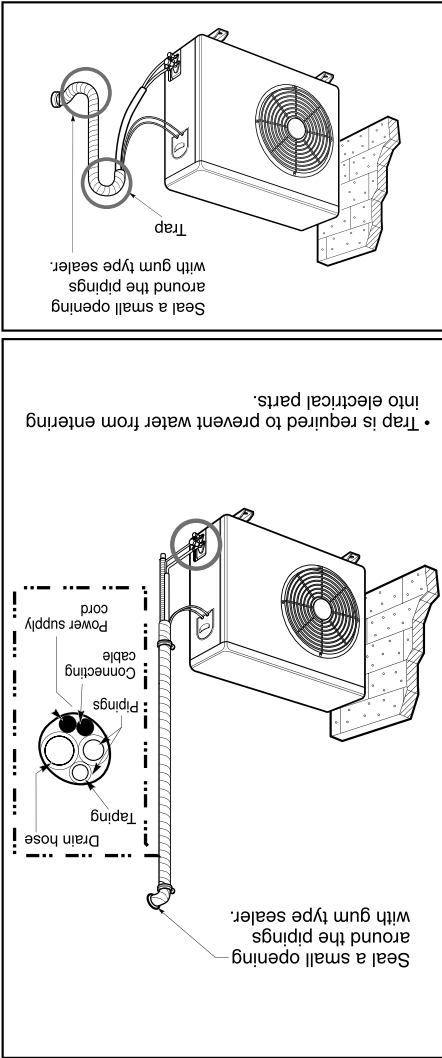
2. Tape the Pipings, drain hose and Connecting Cable from bottom to top.
3. Form the pipings gathered by taping along the exterior wall and fix it onto the wall by saddle or equivalent.

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

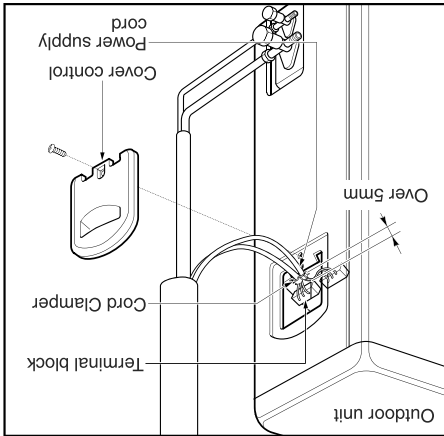
2. Tape the Pipings and Connecting cable from bottom to top.

3. Form the pipings gathered by taping along the exterior wall, and make the trap prevent water from entering into the room.

4. Fix the pipings onto the wall by saddle or equivalent.



1. Remove the Cover control from the unit by loosening a screw.
2. Connect the wires to the terminals on the control board individually as following.
3. Secure the cable onto the control board with the holder (clammer).
4. 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.

Connecting Cables between Indoor and Outdoor Unit

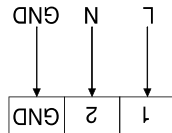
1) Connecting cables to the Indoor Unit

JB-Q18GB2A0 / JB-Q24GB2A0 / JB-Q18GB2A1 / JB-Q18GB2A2 / JB-Q24GB2A1
JB-Q18GB2A3 / JB-Q24GB2A3

- 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

1) Input 1-phase power supply into outdoor & wire specification.

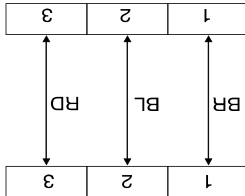
Outdoor terminal block



Model	Capacity	1 Phase	mm ² - core
JB-Q18GB2A0 / JB-Q18GB2A1 / JB-Q18GB2A2 / JB-Q18GB2A3	1.5 TR	2.5 mm ²	2.5 mm ²
JB-Q24GB2A0 / JB-Q24GB2A1 / JB-Q24GB2A3	2.0 TR	2.5 mm ²	2.5 mm ²

2) For connection between of Indoor and Outdoor unit & wire specification

JB-Q18GB2A0 / JB-Q24GB2A0 / JB-Q18GB2A1 / JB-Q18GB2A2 / JB-Q24GB2A1



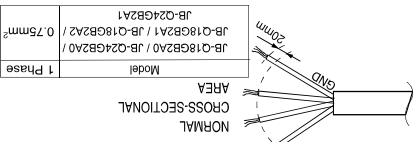
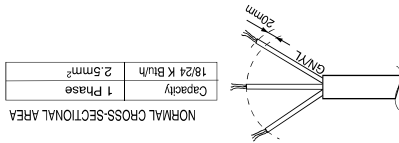
Note : GND = Ground Earthing

Wire specification.

Model	Capacity	1 Phase	No of core
JB-Q18GB2A0	1.5 TR	0.75 mm ²	4
JB-Q24GB2A0	2.0 TR	0.75 mm ²	4
JB-Q18GB2A1	1.5 TR	0.75 mm ²	4
JB-Q24GB2A1	2.0 TR	0.75 mm ²	4
JB-Q18GB2A2	1.5 TR	0.75 mm ²	4
JB-Q24GB2A2	2.0 TR	0.75 mm ²	4
JB-Q18GB2A3	1.5 TR	0.75 mm ²	4
JB-Q24GB2A3	2.0 TR	0.75 mm ²	4

CAUTION

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



If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer of its service agent.

WARNING

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

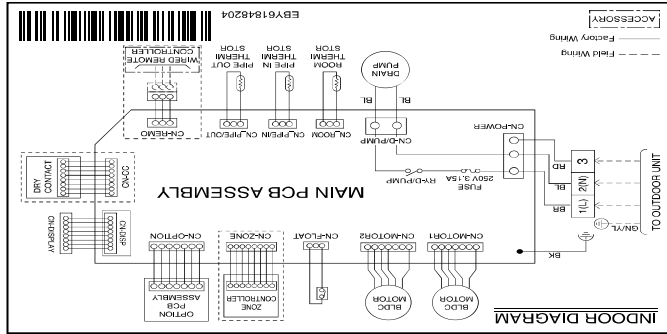
2) Clamping of cables

- 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.

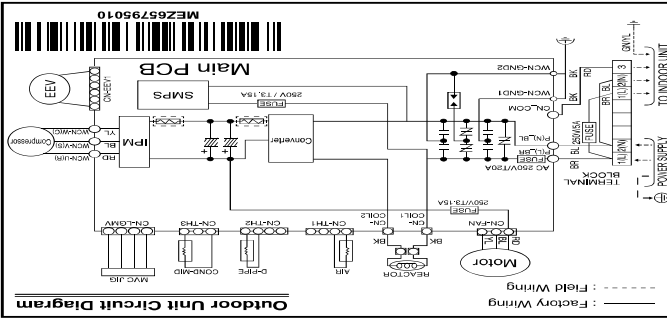
Indoor Wiring Diagram :

NOTE : Connect IR PCB Assy. at CN-DISP of PCB Assy.

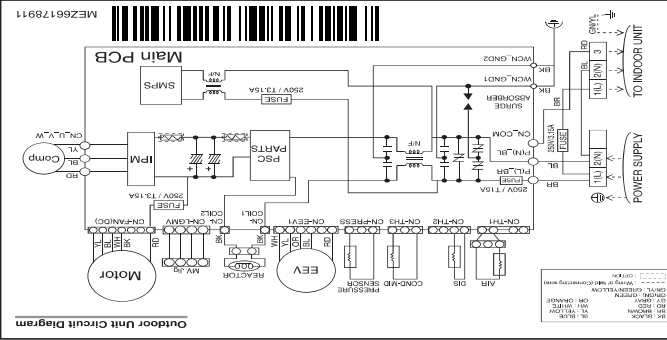
Outdoor Wiring Diagram :



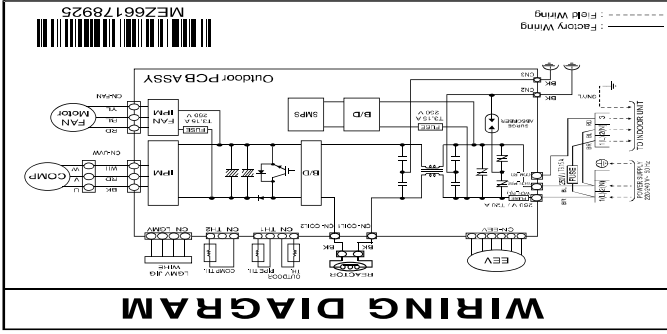
JB-Q18GB2A0 JB-Q18GB2A1 JB-Q24GB2A0 JB-Q18GB2A2 JB-Q24GB2A1 JB-Q18GB2A3 JB-Q24GB2A3 (R-410A Gas charge model)



JB-Q24GB2A1
JB-Q24GB2A3
(R-410A Gas
charge model)



JB-Q18GB2A1
(R-410A Gas
charge model)



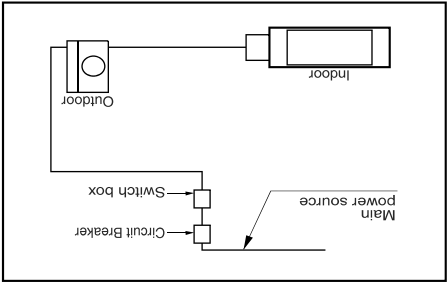
JB-Q18GB2A2
JB-Q18GB2A3
(R-410A Gas
charge model)

6). Connecting Cable between Indoor and Outdoor Unit

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

A) Circuit Breaker Detail

- 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

Model	Capacity	1 Phase	3 Phase
JB-Q18GB2A0 / JB-Q18GB2A1 / JB-Q18GB2A2 / JB-Q18GB2A3	1.5 TR	25	NA
JB-Q24GB2A0 / JB-Q24GB2A1 / JB-Q24GB2A2 / JB-Q24GB2A3	2.0 TR	25	NA

- Warranty will be null & void if wiring is not as per installation instructions.

INSTALLATION

Connecting Harness

- 1 Choose the connecting type as indicated Case 1 and Case2. In Case 2, connect the cable through the knock-out hole on the rear side of the bottom.

NOTE

In Case 2, the diameter of the hole on the ceiling should be smaller than 18mm to prevent it from being shown.

- 2 Connect the IR receiver cable to the CN-DISPLAY connector of main PCB Assembly.

Fixing on the ceiling

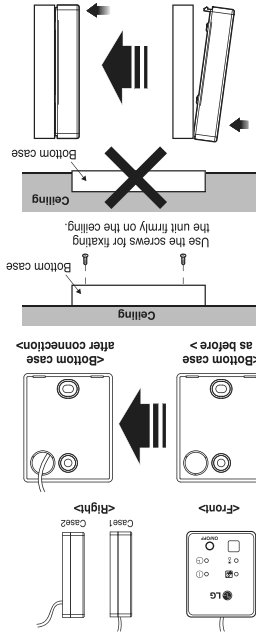
- 1 Fix the rear side of the installation board with the screw.

Check the mark Up & Down on bottom case inside.

WARNING

Do not install the IR Receiver inside the ceiling. It is not a ceiling concealed type.

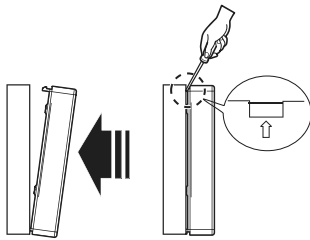
- 2 Now attach the IR PCB Assembly at the rear side of installation board.



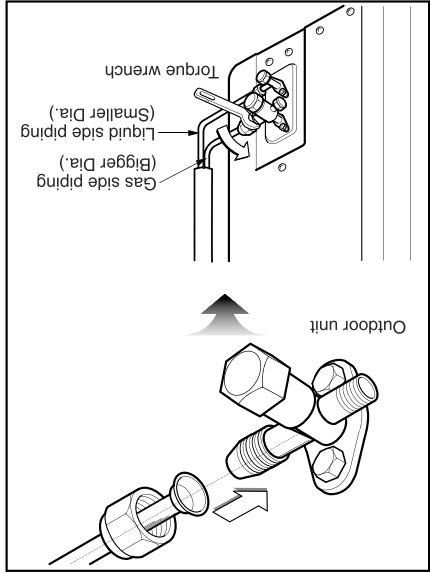
When disassemble the IR receiver from the bottom case, use a driver as shown in the picture and insert it into the hole as indicated with the arrow mark. And when you pull the driver in the front direction, the IR receiver will be separated.

WARNING

Do not pull a driver too strongly. Or else it can touch and hurt the IR PCB.



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. IR Remote Sensor Installation & Operation

- Install the IR remote sensor about 6 feet above the floor in an area with good air circulation at an average temperature.

Do not install the IR remote sensor where it can be affected by:

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.

- This IR remote sensor is equipped with LED display and ON/OFF button. For proper display of the IR remote sensor, The IR remote sensor should be installed properly as shown in Fig.1.
(The standard height is 6 feet from floor level.)

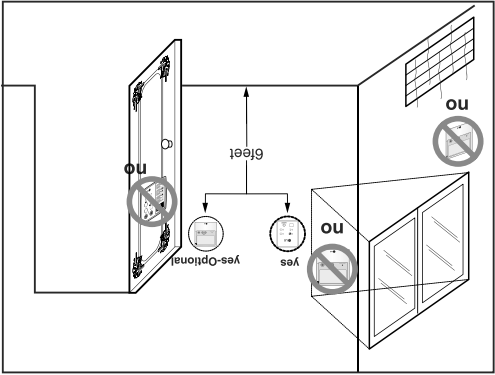


Fig.1 Typical locations for IR Remote Sensor

6) Pipe bending

Annealed copper pipe with small diameter ($\phi 6.35$ or $\phi 9.52$ or $\phi 12.7$) 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

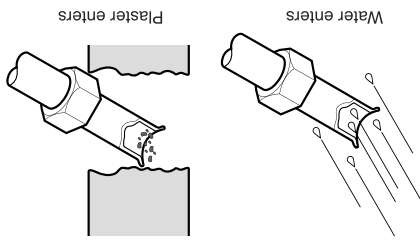
In refrigerant piping, bending (in particular, acute bending) must be minimized to reduce piping resistance. Bending is, however, necessary in some places by virtue of the installation position of devices or of the building structure, piping distance or finishing appearance. Perform brazing using ready-made elbow. Aside from this function, brazing 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

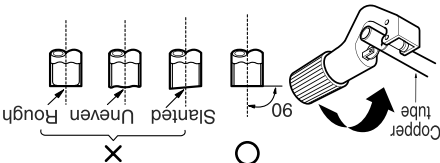
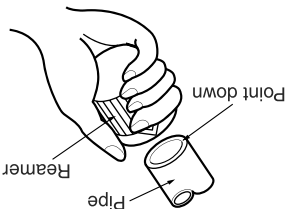
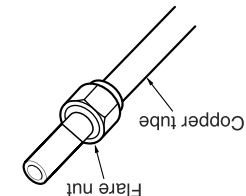
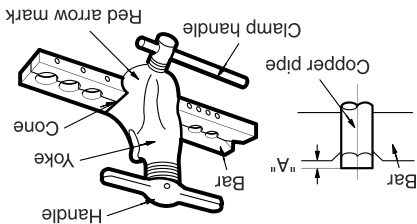
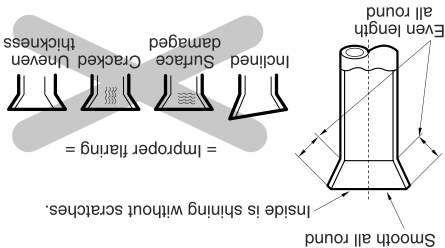
■ Carry out flaring work using flaring tool as shown below.

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(die) as indicated dimension in the table above.

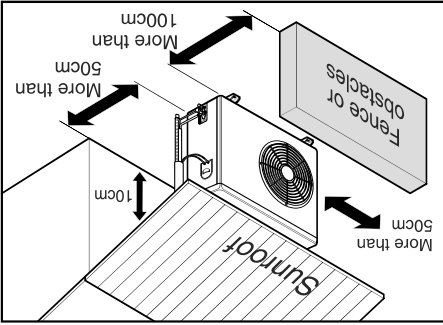
5) Check

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



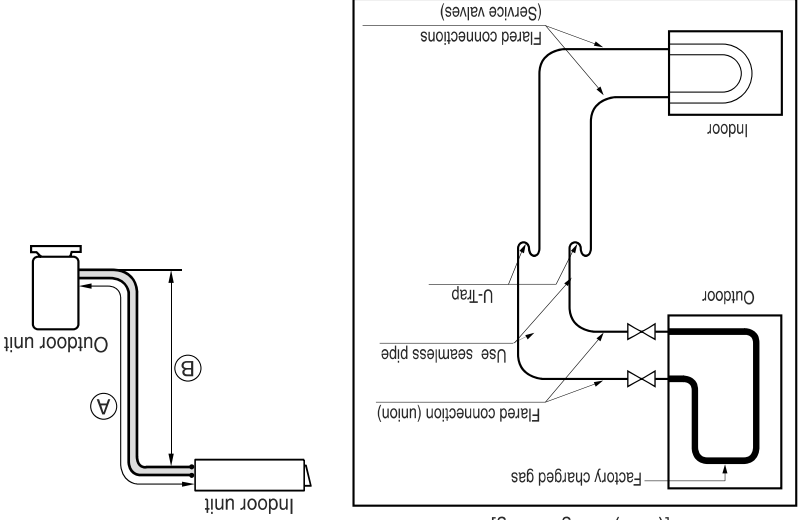
>>Outdoor unit space requirement.

- 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.



Model	Capacity	Pip Size (Dia In Inch)		Length(A meter)	Elevation(B meter)	Additional Gas Charge	
		Gas	Liquid			standard	Max
JB-Q18GB2A0	1.5 TR	1/2"	1/4"	30	5	R-410	15gm
JB-Q24GB2A0	2.0 TR	5/8"	3/8"	50	5	R-410	30gm
JB-Q18GB2A1	1.5 TR	1/2"	1/4"	30	5	R-410	15gm
JB-Q18GB2A2	1.5 TR	1/2"	1/4"	30	5	R-410	15gm
JB-Q24GB2A1	2.0 TR	5/8"	3/8"	50	5	R-410	30gm
JB-Q18GB2A3	1.5 TR	1/2"	1/4"	30	5	R-410	15gm
JB-Q24GB2A3	2.0 TR	5/8"	3/8"	50	5	R-410	30gm

- Capacity is based on standard length and maximum allowance length is on the basis of reliability .
- Oil trap should be installed every 5 meters.
- If 18k model is installed at a distance of 15m, 150g of refrigerant should be added [(15-5) x 15g = 150g].



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

[illegible]

Care and maintenance

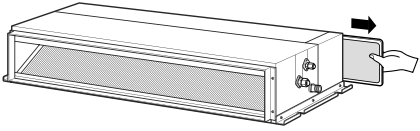
Caution: Before performing any maintenance, turn off the main power to the system.

Indoor Unit

Gille, Case, and Remote Control

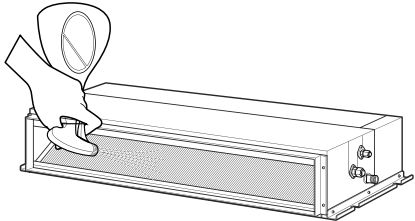
- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

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

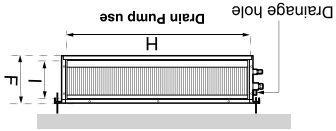
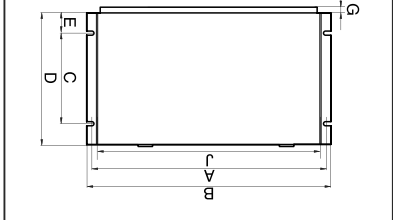


Air Filter

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



- 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.
- 1 Clean the filter with a vacuum or warm, soapy water.
 - If very dirty, wash with a solution of detergent in lukewarm water.
 - If hot water (50°C or more) is used, filter may be deformed.
- 2 After washing with water, dry well in the shade.
- 3 Re-install the air filter.



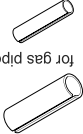
Dimension	Capacity(Btu/h)									
	A	B	C	D	E	F	G	H	I	J
18/24k Btu/h	1130	1180	383	575	93	190	21	1065	163	1100

Indoor Unit Dimensions (mm)
(Unit:mm)

HAND OVER

Teach the customer the operation and maintenance procedures, using the operation manual.
(air filter cleaning, temperature control, etc.)

Standard Accessories

Name	Quantity	Shape
Drain hose	1 EA	
Clamp metal	2 EA	
Washer for hanging basket (Tie Wrap)	8 EA	
Clamp Insulation for (Tie Wrap)	4 EA	
Insulation for fitting	1 SET	 for gas pipe for liquid pipe
IR Receiver	1 EA	
Wireless Remote	1 EA	
(Other)		• Owner's manual • Installation manual

E). Insulation of the Piping & Drain

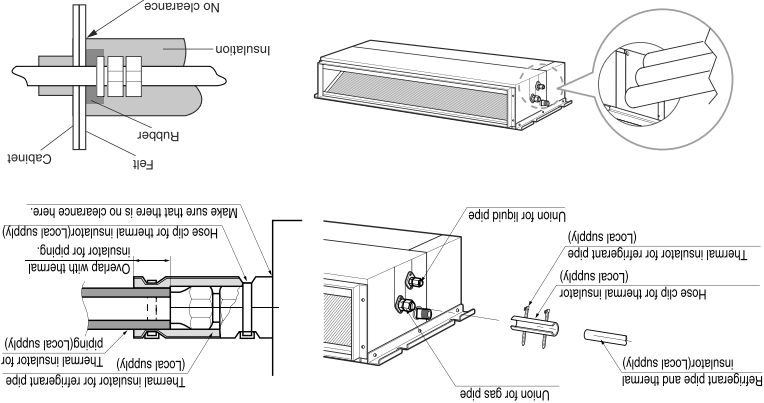
INSULATION, OTHERS

Insulate the joint and tubes completely

Thermal Insulation

All thermal insulation must comply with local requirement.

INDOOR UNIT

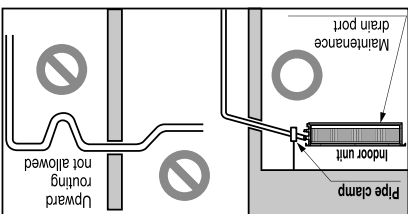


TEST AND CHECK

■ 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 correctly?
- Wiring Is the wiring connection correctly?
- Lock-bolt Is the lock-bolt of compressor loosened?
- Insulation Is the unit fully insulated?
- Ground Is the unit safely grounded?

D). Drain Piping



- Drain piping must have down-slope (1/50 to 1/100); be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert extra force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32mm.

Piping material: Polyvinyl chloride pipe VP-25 and pipe fittings

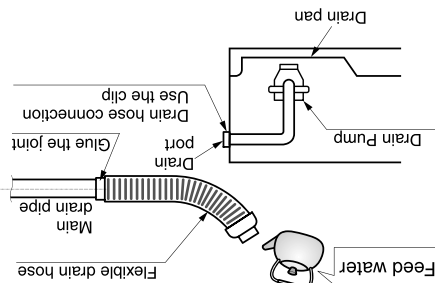
Heat insulation material: Polyethylene foam with thickness more than 8 mm.

- Be sure to install heat insulation on the drain piping.

Drain test

The air conditioner uses a drain pump to drain water.

Use the following procedure to test the drain pump operation:

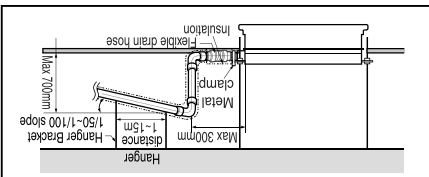


CAUTION : The supplied flexible drain hose should not be curved, neither screwed. The curved or screwed hose may cause a leakage of water.

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 posted on the inside of control box cover.
- 2) Provide a circuit breaker switch between power source and the unit.
- 3) The screws 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
- 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, fuse breaking, disturbance by the normal function of an overload protection device.
 - Proper starting power is not given to the compressor.



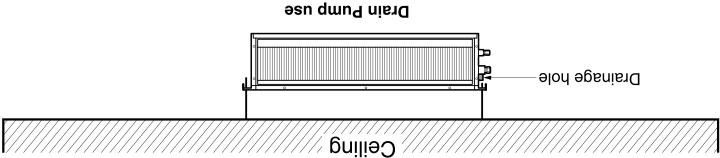
- Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
- Feed water to the flexible drain hose and check the piping for leakage.
- Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
- When the test is complete, connect the flexible drain hose to the drain port on the indoor unit.

CAUTION

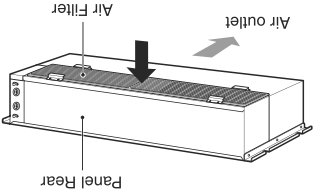
1. **Install declination** of the indoor unit is very **important for the drain** of the duct type air conditioner.
2. Minimum thickness of the insulation for the connecting pipe shall be 19mm.

Front of view

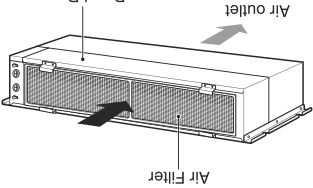
• The unit must be horizontal or declined to the drain hose connected when finished installation.



• Low static duct type in case of suction from back side.



• Low static duct type in case of suction from bottom side.



Installation of Unit

Install the unit above the ceiling correctly.

CASE 1

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.

Capacity(Btu/h)		Dimension									
A	B	C	D	E	F	G	H	I	J	1824k Btu/h	
										1130	1100
										1180	1163
										383	1065
										575	190
										93	21
										190	163
										21	1100

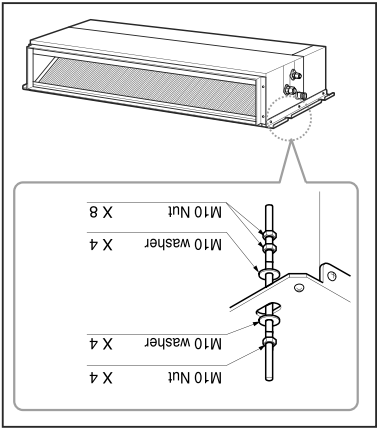
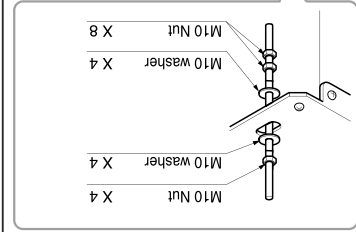
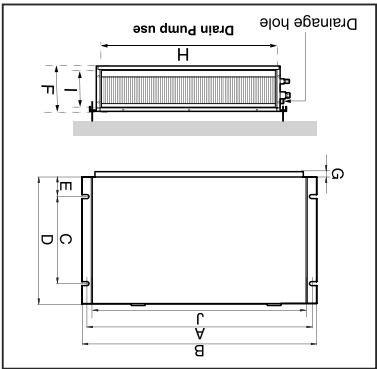
(Unit:mm)

CASE 2

- Install the unit leaning to a drainage hole side as a figure for easy water drainage.

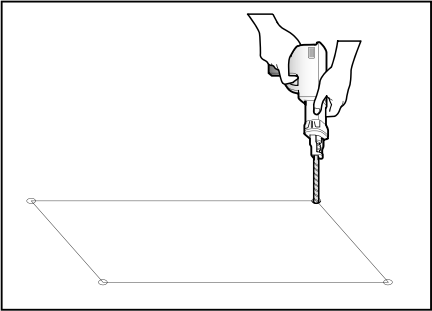
POSITION OF CONSOLE BOLT

- 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.

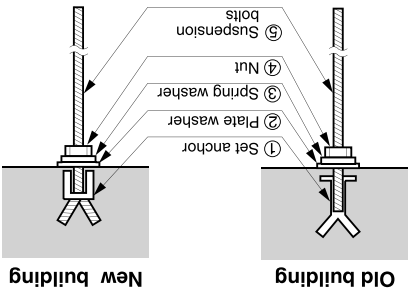


Indoor Unit Installation

- Select and mark the position for fixing bolts.
- Drill the hole for set anchor on the face of ceiling.



CAUTION : Tighten the nut and bolt to prevent unit falling.



- Insert the set anchor and washer onto the suspension bolts for locking the suspension bolts on the ceiling.
- Mount the suspension plates onto the set anchor firmly.
- Secure the installation plates onto the suspension bolts (adjust level roughly) using nuts, washers and spring washers.

2). Installation of indoor & Outdoor.

A). Selection of the best location of Indoor

Indoor unit

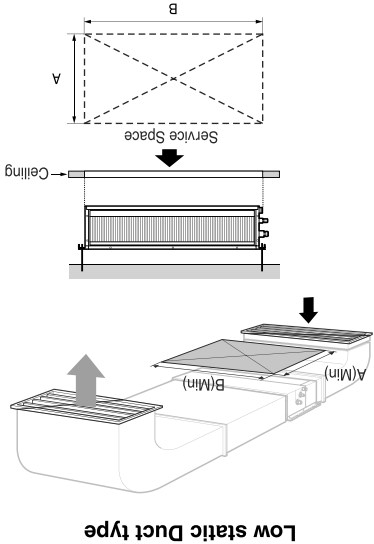
- Install the air conditioner in the location that satisfies the following conditions.
- The place shall easily bear a load exceeding four times the indoor unit's weight.
 - The place shall be able to inspect the unit as the figure.
 - The place where the unit shall be leveled.
 - The place shall easily 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
- Confirm the positional relationship between the unit and suspension bolts.
- Installation the ceiling opening to clean the filter or service under the product.

(Length: mm)

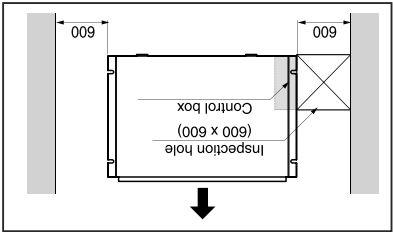
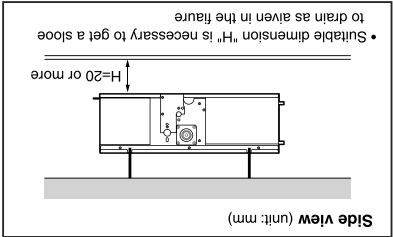
Capacity(Btu/h)	18/24k	600	1100
A	B		

[Inspection Hole Standard]

Number of inspection hole	Distance between False ceiling & Actual ceiling	Remarks
1	More than 100cm	Sufficient space in the ceiling for servicing.
2	20cm to 100cm	Insufficient space. Difficult for servicing.
Hole size should be more than the size of IDU.	Less than 20cm	Minimum height for motor replacement.



Low static Duct type



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, the unit falling or water from whom you purchased the unit or special installer.

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 injury.

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.

Attach the electrical part cover to the indoor unit and the service panel to the outdoor unit securely.

- If the electrical part cover if the indoor unit and/or the service panel if the outdoor unit are not attached securely, it could result in a fire or electric shock due to dust, water, etc.

Perform electrical work according to the installation manual and be sure to use an exclusive circuit.

- If the capacity of the power circuit is insufficient or there is incomplete electrical work, it could result in a fire or an electric shock.

Perform the installation securely referring to the installation manual.

- Incomplete installation could cause a personal injury due to fire, electric shock, the unit falling or a leakage of water.

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 press the screen using powerful pressure or select two buttons.

- It will cause product breakdown or malfunction

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.

Do not touch or pull the lead wire with wet hands.

- It will cause product breakdown or electric shock.

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AIR CONDITIONER INSTALLATION MANUAL

Please read this installation manual completely before installing the product. Installation work must be performed in accordance with the national wiring standards by authorized personnel only. Please retain this installation manual for future reference after reading it thoroughly.

TYPE : LO-STATIC CEILING DUCT TYPE AIR CONDITIONER
For Single LO-Static duct models



MFL62760204

P/No. : MFL62760204_v1