LG
Life's Good

OWNER'S MANUAL

AIR CONDITIONER

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

TYPE : LOW STATIC HIDE AWAY TYPE AIR CONDITIONER

For single duct low static models

MFL62760203

P/No. : MFL62760203_v0

LG 24 x 7 CALL CENTER

1800-180-3575 (Toll Free)

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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.*

Precautions

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 in correctly, 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 case 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.

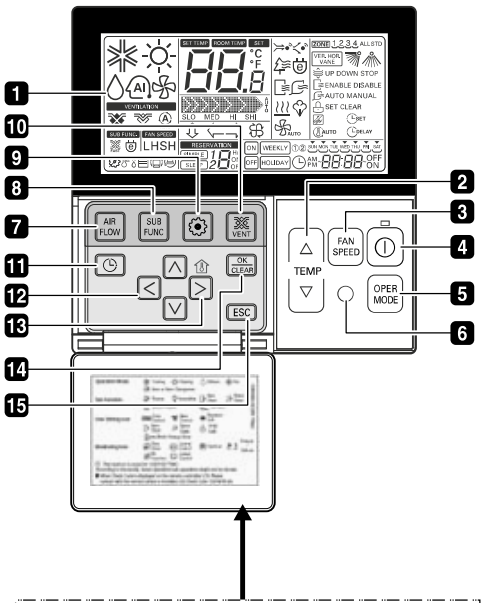
If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer of its service agent.

- If 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.

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. OPRATION 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.

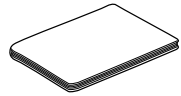
Accessory



Connection Cable
(1EA, 10m)



Screw
(4 EA)



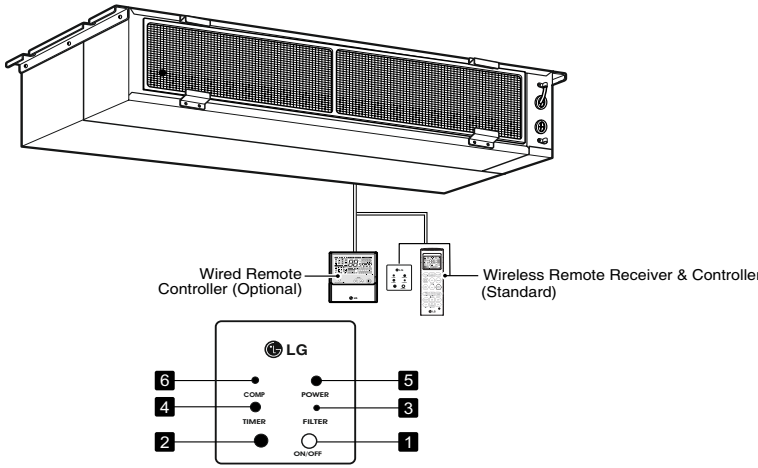
Owner's / Installation manual



Inform label
(8EA-8Languages)

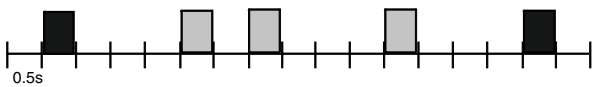
8. Operating Instructions

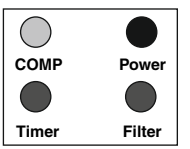
A) Indoor Unit, Outdoor Unit



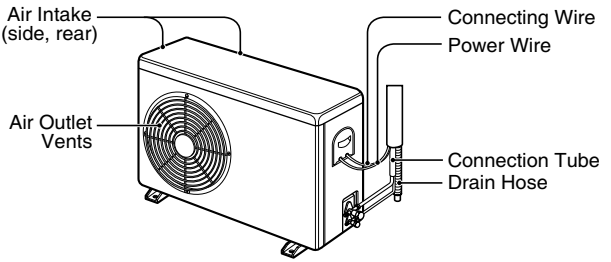
Operation Indication Lamps **Signal Recepter**

1	Forced Operation	: Use the ON/OFF button when remote control is not available.
2	Signal Receptor	: Receives the signal from remote control (signal receiving sound: one long beep)
3	FILTER SIGN	: Lights up after 240 hours from the time of first power on operation.
4	TIMER	: Lights up during timer operation.
5	ON/OFF	: Lights up during system operation.
6	COMP	: Lights up during outdoor operation (i.e. when compressor switch on)

Part	Function	Before	After
SW	LED		**Error Display** -Operation LED –1st digit error # Error -Clean filter LED –10th digit error # Error -Reservation LED – 100th digit error # Error -Comp LED – LED OFF **Display flash control** -Error display order : Repeat 1st digit # → 10th digit # → 100th digit # display -Central Controller address display order : Repeat Indoor unit # → Group # display - Repeat 0.5s OFF + 0.5s ON Toggle in 1s cycle -1 cycle OFF after # display is completed Ex) When CH121 is displayed 



Outdoor Unit



Cooling model: Low static Type Air Conditioner for cooling

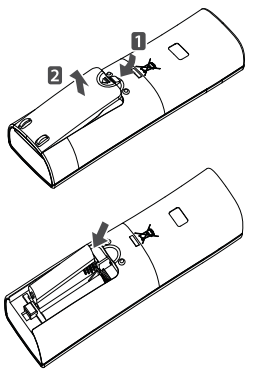
B) Remote Control Preparation

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.

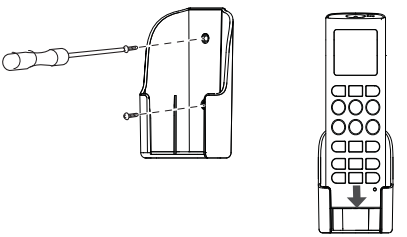


Wireless Remote Controller Maintenance

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

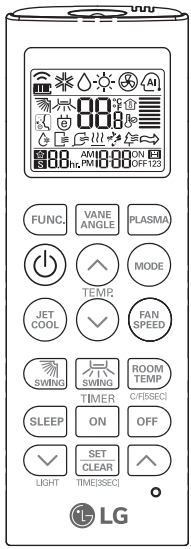
- Always use/replace both batteries of same type.
- If the system is not to be used for a long time, remove the batteries to save their working life.
- If the display screen of remote controller starts, fading replace both of the batteries.

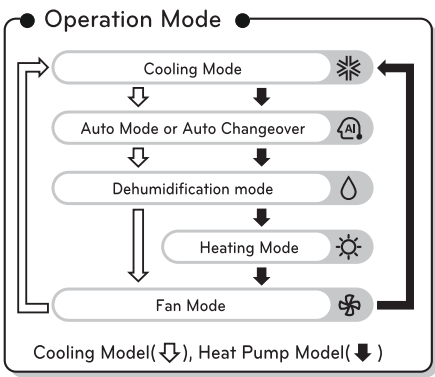
NOTE

- 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 serviceman.

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 four steps low, medium, high and chaos.

14 ROOM TEMPERATURE CHECKING Button
Used to check the room temperature.

15 OFF TIMER Button
Used to set the time of stopping operation.

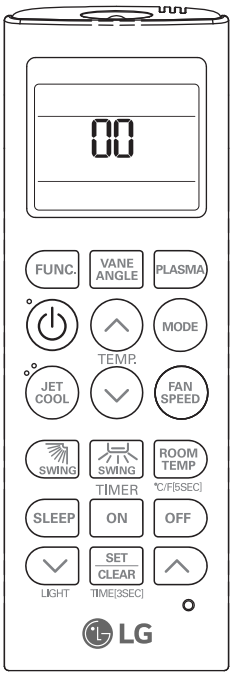
16 TIMER SETTING(Up/Down)/LIGHT Button
Used to set the timer.
Used to adjust the brightness.(if it is not time adjust mode)

17 RESET Button
Used to reset the remote controller.

Installer Setting - How to enter installer setting mode

CAUTION

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.



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.

Installer Setting - Installer Setting Code Table

Installer Setting Code Table

No.	Function	Function Code	Setting Value	Remote Controller LCD
0	Mode Override	0	0 : Set to Master	0.0
			1 : Set to Slave	0.1
1	Ceiling Height Selection	1	1 : Standard	1.1
			2 : Low	1.2
			3 : High	1.3
			4 : Super High	1.4
2	Group Control	2	0 : Set to Master	2.0
			1 : Set to Slave	2.1
			2 : Check Master/Slave	2.2
	Auxiliary heater	2	3 : Set to Auxiliary heater	2.3
			4 : Cancel Auxiliary heater	2.4
			5 : Check Auxiliary heater Installation	2.5

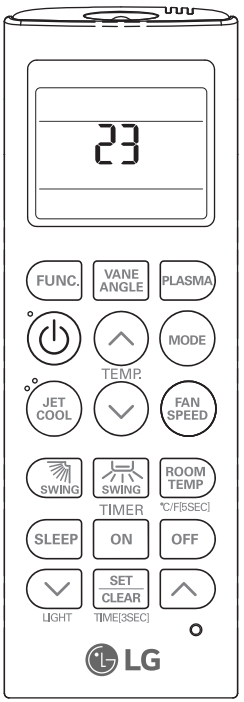
Mode Override
This Function is only for Non-Auto Changeover H/P model.

Ceiling Height Selection
Our products provide variety of air volumes and capacities according to the selection of ceiling heights.
Cooling/Heating performance is enhanced with relation to ceiling height.
- The highest/cooling heating performance and efficiency are provide at super high.
  (Some noise may be generated according to the level height setting.)

Group Control
This function is only for group control. Please don't set this function in case of non-group control.
After setting Group Control of the product, turn off the power then turn it back on after 1 minute.

Auxiliary heater
This function is only applied to models with Auxiliary Heater function being activated.

Installer Setting - Setting Address of Central Control



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 uint 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.

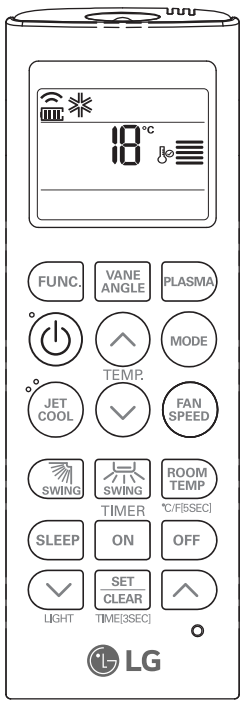
2. Press the ON/OFF button toward the indoor unit 1 time, and the indoor unit will display the set address in the display window.

   • The address display time and method can differ by the indoor unit type.

3. Reset the remote controller to use the general operation mode.

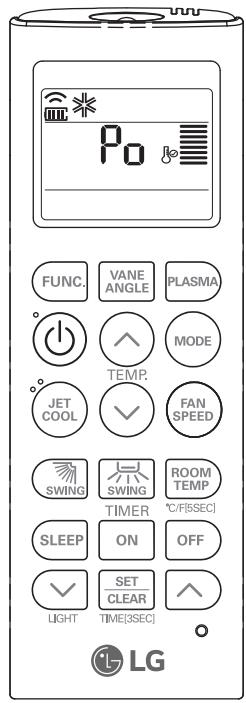
Cooling Mode

- Standard Operation



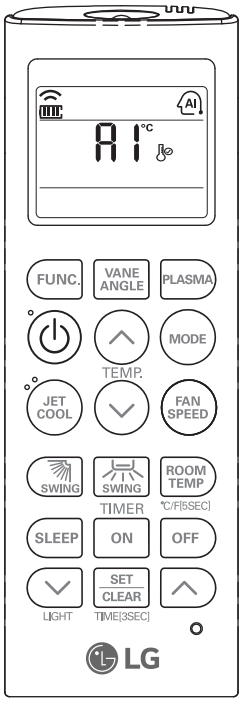
1. Press the ON/OFF button.
   The unit will respond with beep sound.
2. Press MODE button to select Cooling Mode.
3. Set the desired temperature by pressing TEMP button.
   Press ROOM TEMPERATURE CHECKING button to check the room temperature.
   When setting the desired temperature is higher than room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

Cooling Mode - Power Cooling



1. Press the ON/OFF button.
   The unit will respond with beep sound.
2. Press MODE button to select Cooling Mode.
3. Press the JET COOL button. The unit will operate in super high fan speed in cooling mode.
   • Wall mounted models operate power cooling mode for 30 minutes.
4. To cancel the Power cooling Mode press the Jet Cool button or the fan button or the room temperature setting button again and the unit will operate in high fan speed in cooling mode.

Auto Operation Mode



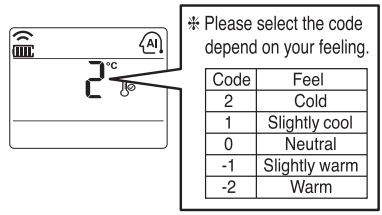
1. Press the ON/OFF button.
   The unit will respond with beep sound.

2. Press MODE button to select Auto Operation Mode.

3. Set the desired temperature.

   <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.

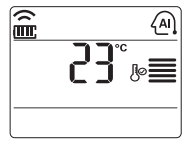


❉ Please select the code depend on your feeling.

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

<For Heating Model>

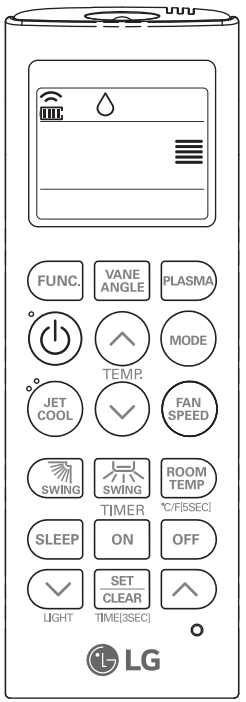
You can set desired temperature and indoor fan speed.
Setting Temp. Range : 18~30°C(64~86°F)



During Auto Operation Mode

- If the system is not operating as desired, manually switch to another mode. The system will not automatically switch from the cooling mode to the heating mode, or from heating to cooling, then you must set the mode and the desired temperature again.

Dehumidification Mode



1. Press the ON/OFF button.
   The unit will respond with beep sound.

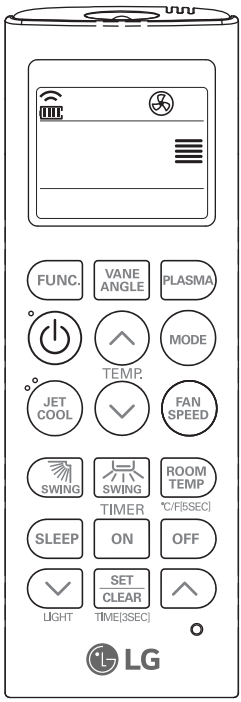
2. Press MODE button to select Dehumidification Mode.

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.

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.

Fan Mode



Natural Wind by the chaos Logic

- For more fresh feeling than other fan speed, press the Indoor Fan Speed Selector and set to chaos mode. In this mode, the wind blows like natural breeze by automatically changing fan speed according to the chaos logic.

During Fan Mode

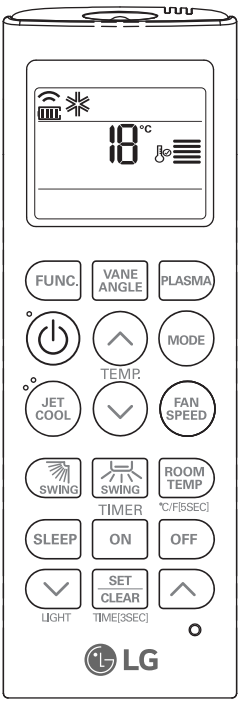
- The outdoor compressor doesn't work. Have a function to circulate the indoor as it sends out the air that doesn't have much temperature difference with indoor.

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 four steps–low, medium, high, or chaos. 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

TEMP.

: 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

<Heating Mode>

The heating mode doesn't work if desired temperature is lower than room temperature Please increase 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

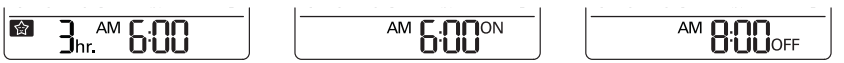
Check the indicator for A.M. and P.M.

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.)

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-04**	Check float sensor / Jumper	Recover after 4 minutes of operation when float sensor / Jumper healthy
4	**CH-05**	Check Dipswitch comm (Yes/No)	Check Dipswitch setting and Power Reset
5	**CH-09**	Check Option PCB (EPROM)	Check Interconnection of Option PCB and Power Reset

Care and maintenance

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

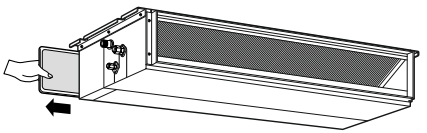
Indoor Unit

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.

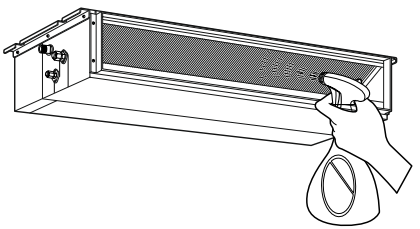
Note:

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.

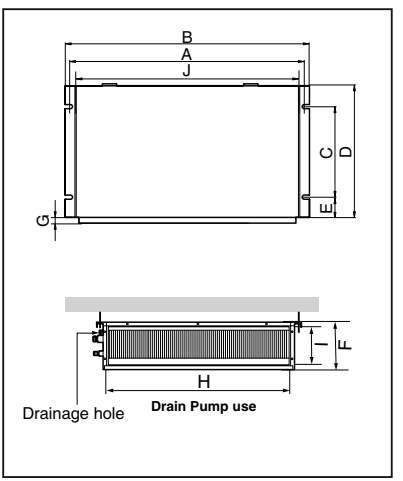


1. Clean the filter with a vacuum or warm, soapy water.
   - If very dirty, wash with a solution of detergent in lukewarm water.
   - If hot water (50°C or more) is used, filter may be deformed.
2. After washing with water, dry well in the shade.
3. Re-install the air filter.

Indoor Unit Dimensions (mm)

(Unit:mm)

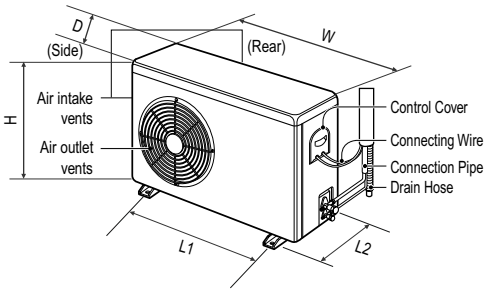
Dimension / Capacity(Btu/h)	A	B	C	D	E	F	G	H	I	J
18/24/30k BTU/h	1130	1180	383	575	93	190	21	1065	163	1100
36/48/60k BTU/h										

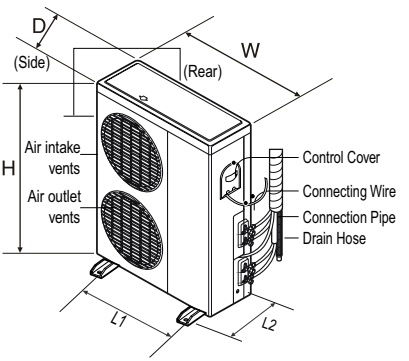


The heat exchanger coils and panel vents of the outdoor unit should be checked regularly. If clogged with dirt or soot, the heat exchanger and panel vents may be professionally steam cleaned.

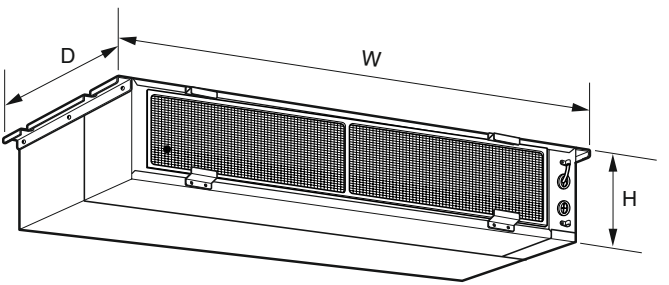
Note:
Dirty or clogged coils will reduce the operating efficiency of the system and cause higher operating costs.

Outdoor Unit





Indoor Unit



Model	Capacity	Indoor dimension			Outdoor Dimnesion				
		W	D	H	W	D	H	L1	L2
LB-B2156QC / LB-B2156QC2	1.5TR	1180	575	190	800	260	555	590	305
LB-B2206QC / LB-B2206QC2	2TR	1180	575	190	800	260	555	590	305
LB-B2256QC / LB-B2258QC	2.5TR	1180	575	190	870	320	655	545	350
JB-B2156QC	1.5TR	1180	575	190	870	320	655	545	350
JB-B2258QC	2.5TR	1180	575	190	870	320	800	545	350
LMA36B2ALI	1.5 x 2TR	1180	575	190	870	320	655	545	350
LMA48B2ALI	2.0 x 2TR	1180	575	190	906	406	1135	606	465
LMA60B2ALI	2.5 x 2TR	1180	575	190	906	406	1135	606	465

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 electiric 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.

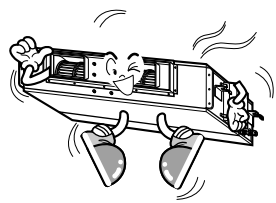
This is not good for the health and wastes electricity.

Keep blinds or curtains closed.

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

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.



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.

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.

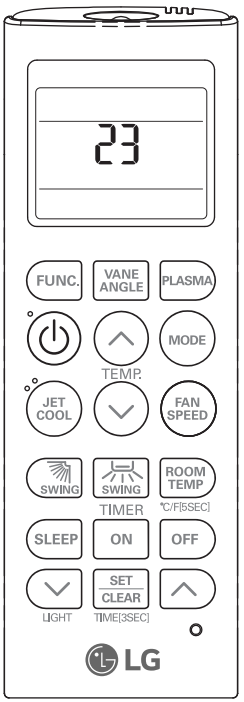
Case	Explanation
The air conditioner does not operate.	• Have you made a mistake in timer operation? • On first starting, the indoor unit operates in fifteen seconds. • Has the fuse blown or has the circuit breaker been tripped? • Check power supply for single/reverse phase, voltage imbalance.
The room 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.


LG
Life's Good

Installer Setting - Setting Address of Central Control



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 uint 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 - Installer Setting Code Table

Installer Setting Code Table

No.	Function	Function Code	Setting Value	Remote Controller LCD
0	Mode Override	0	0 : Set to Master	0.0
			1 : Set to Slave	0.1
1	Ceiling Height Selection	1	1 : Standard	1.1
			2 : Low	1.2
			3 : High	1.3
			4 : Super High	1.4
2	Group Control	2	0 : Set to Master	2.0
			1 : Set to Slave	2.1
			2 : Check Master/Slave	2.2
	Auxiliary heater	2	3 : Set to Auxiliary heater	2.3
			4 : Cancel Auxiliary heater	2.4
			5 : Check Auxiliary heater Installation	2.5

Mode Override
This Function is only for Non-Auto Changeover H/P model.

Ceiling Height Selection
Our products provide variety of air volumes and capacities according to the selection of ceiling heights.
Cooling/Heating performance is enhanced with relation to ceiling height.
- The highest/cooling heating performance and efficiency are provide at super high.
  (Some noise may be generated according to the level height setting.)

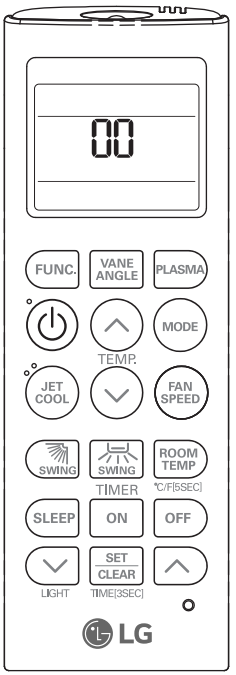
Group Control
This function is only for group control. Please don't set this function in case of non-group control.
After setting Group Control of the product, turn off the power then turn it back on after 1 minute.

Auxiliary heater
This function is only applied to models with Auxiliary Heater function being activated.

Installer Setting - How to enter installer setting mode

CAUTION

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.

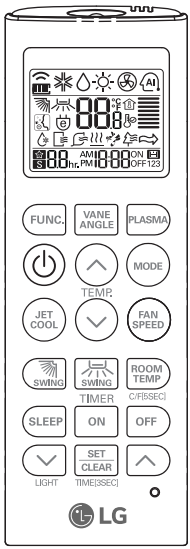


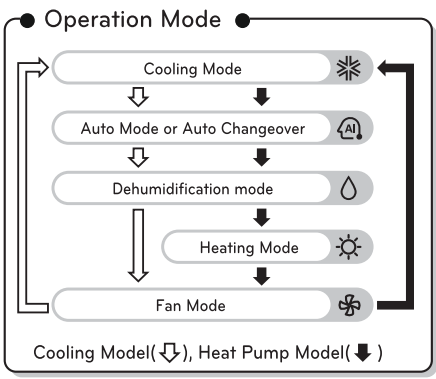
1. With the JET COOL button pressed, press the RESET button.
2. By using the TEMPERATURE SETTING button, set function code and setting value. (Please refer the Installer Setting Code Table.)
3. Press the ON/OFF button toward the indoor unit 1 time.
4. Reset the remote controller to use the general operation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

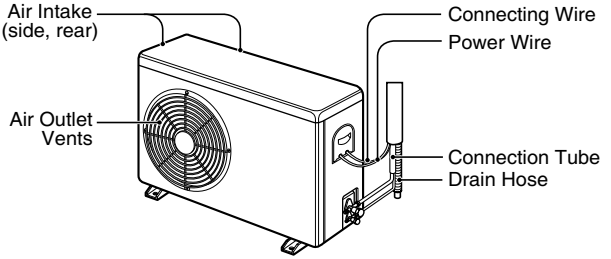
14 ROOM TEMPERATURE CHECKING Button
Used to check the room temperature.

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.

Outdoor Unit



Cooling model: Low static Type Air Conditioner for cooling

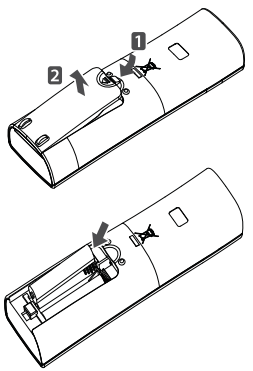
B) Remote Control Preparation

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.

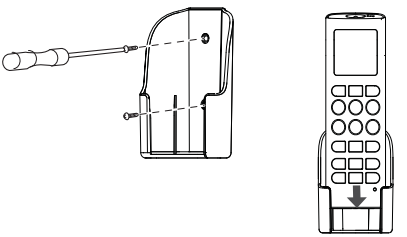


Wireless Remote Controller Maintenance

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

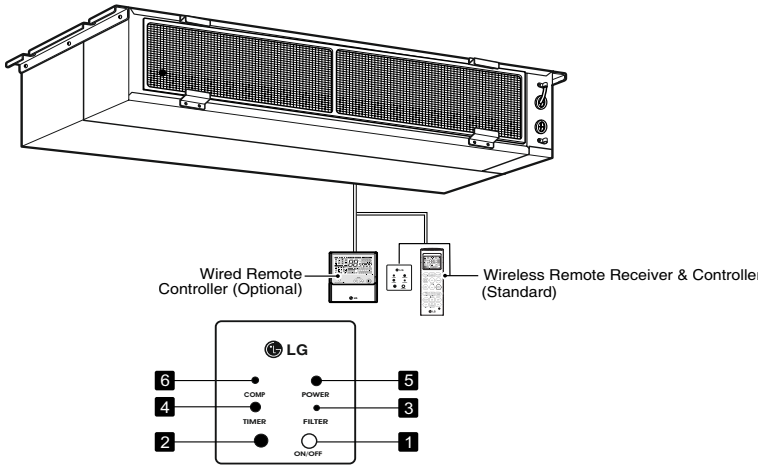
- Always use/replace both batteries of same type.
- If the system is not to be used for a long time, remove the batteries to save their working life.
- If the display screen of remote controller starts, fading replace both of the batteries.

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 serviceman.

8. Operating Instructions

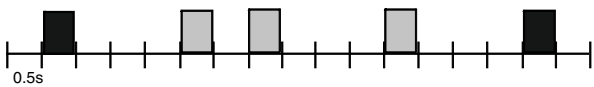
A) Indoor Unit, Outdoor Unit



Signal Recepter

Operation Indication Lamps

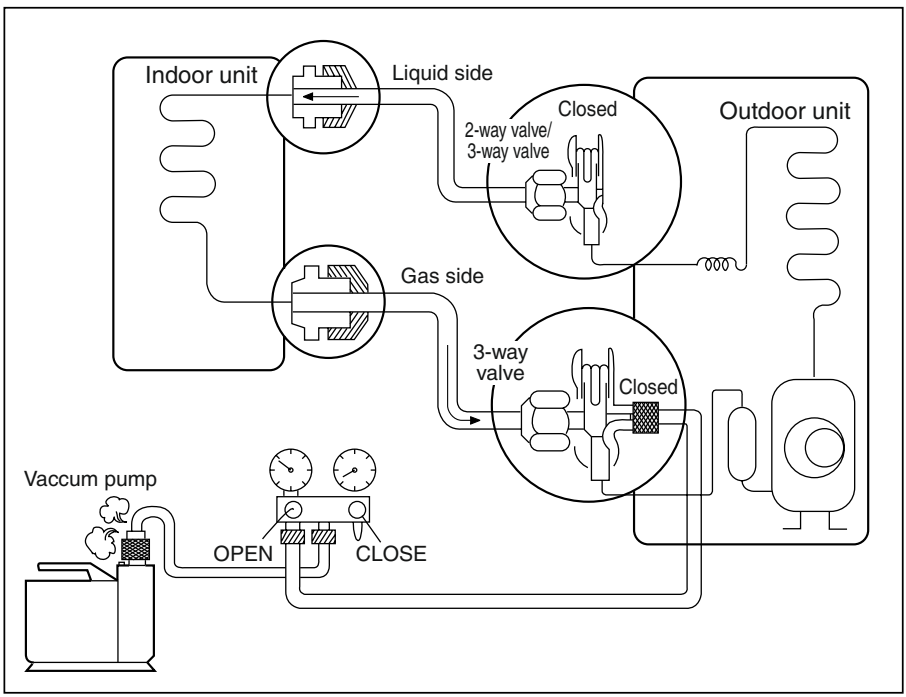
1	Forced Operation	: Use the ON/OFF button when remote control is not available.
2	Signal Receptor	: Receives the signal from remote control (signal receiving sound: one long beep)
3	FILTER SIGN	: Lights up after 240 hours from the time of first power on operation.
4	TIMER	: Lights up during timer operation.
5	ON/OFF	: Lights up during system operation.
6	COMP	: Lights up during outdoor operation (i.e. when compressor switch on)

Part	Function	Before	After
SW	LED		**Error Display** -Operation LED –1st digit error # Error -Clean filter LED –10th digit error # Error -Reservation LED – 100th digit error # Error -Comp LED – LED OFF **Display flash control** -Error display order : Repeat 1st digit # → 10th digit # → 100th digit # display -Central Controller address display order : Repeat Indoor unit # → Group # display - Repeat 0.5s OFF + 0.5s ON Toggle in 1s cycle -1 cycle OFF after # display is completed Ex) When CH121 is displayed 

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)



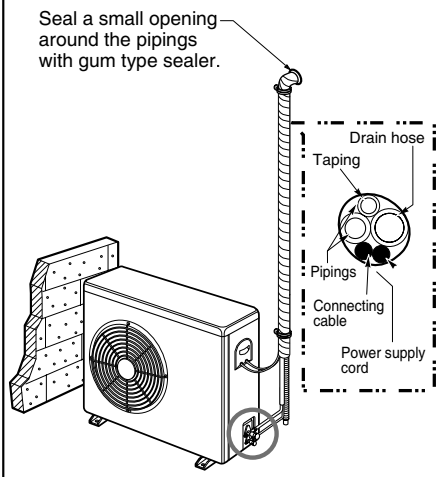
>> Piping Routine

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.**



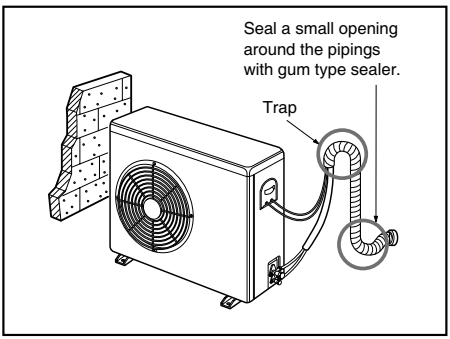
• Trap is required to prevent water from entering into electrical parts.

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.**

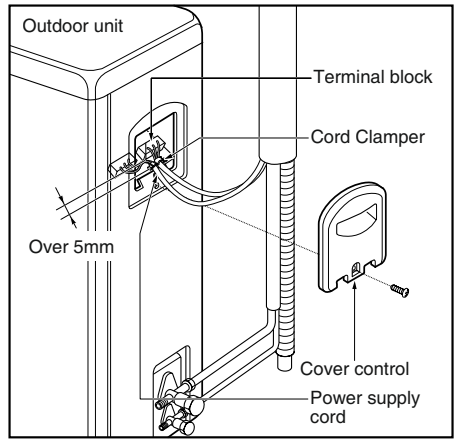
3. **Form the pipings gathered by taping along the exterior wall, and make the trap prevent water from entering into the room.**

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



C) Outdoor Wiring Routine and Pipe Routine

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 (clamper).
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.

Connecting Cables between Indoor and Outdoor Unit

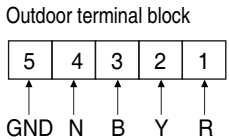
60K BTU/h
Applied Model:- LMA60B2ALI

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.

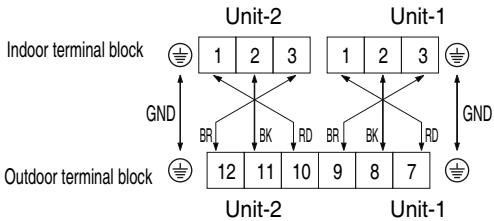
1) Input 3-phase power supply into outdoor, cable specification 4 core 2.5 sq mm2 & Separable Earthing Wire.

LMA60B2ALI



Note : GND = Ground Earthing

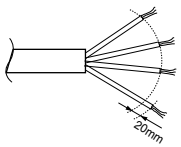
2) For connection between of Indoor and Outdoor unit & wire specification 4 core , 1.25 sq mm2 .



Note : GND = Ground Earthing

CAUTION

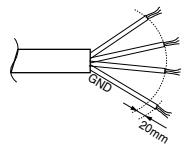
The power cord connected to the outdoor unit should be with the following specifications



NORMAL CROSS-SECTIONAL AREA

Capacity	3 Phase
60K BTU/h	2.5mm²

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



NORMAL CROSS-SECTIONAL AREA 1.25mm² (60K)

If the supply cord is damaged, it must be replaced by a special cord or assembly availible 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.

Connecting Cables between Indoor and Outdoor Unit

36/48K BTU/h
Applied Model:- LMA36B2ALI, LMA48B2ALI

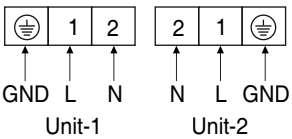
1) Connecting cables to the Indoor Unit

- 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

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

A) LMA36B2ALI

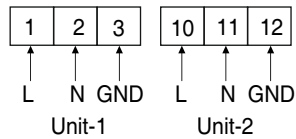
Outdoor terminal block



Wire specification.

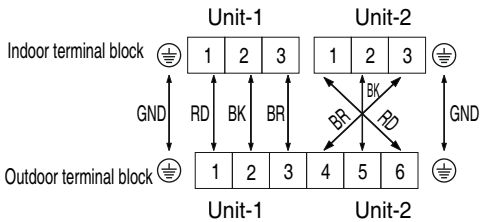
Model	Capacity	1 Phase mm2 * core
LMA36B2ALI	1.5TR x 2	2.5 mm2*3
LMA48B2ALI	2TR x 2	2.5 mm2*3

B) LMA48B2ALI

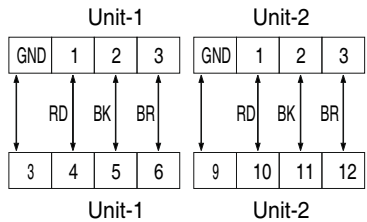


2) For connection between of Indoor and Outdoor unit & wire specification

A) LMA36B2ALI



B) LMA48B2ALI



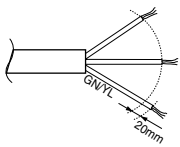
Note : GND = Ground Earthing

Wire specification.

Model	Capacity	1 Phase	No of core
LMA36B2ALI	1.5 TR x 2	1.5 mm2	4
LMA48B2ALI	2 TR x 2	1.5 mm2	4

CAUTION

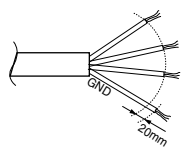
The power cord connected to the outdoor unit should be with the following specifications



NORMAL CROSS-SECTIONAL AREA

Capacity	1 Phase
36/48 K BTU/h	2.5mm²

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



NORMAL CROSS-SECTIONAL AREA
1.25mm² (36/48K)

If the supply cord is damaged, it must be replaced by a special cord or assembly availible 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.

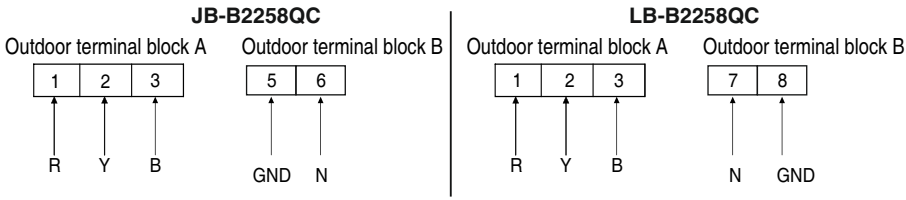
Connecting Cables between Indoor and Outdoor Unit

30K BTU/h
Applied Model:- JB-B2258QC / LB-B2258QC.

1) Connecting cables to the indoor Unit

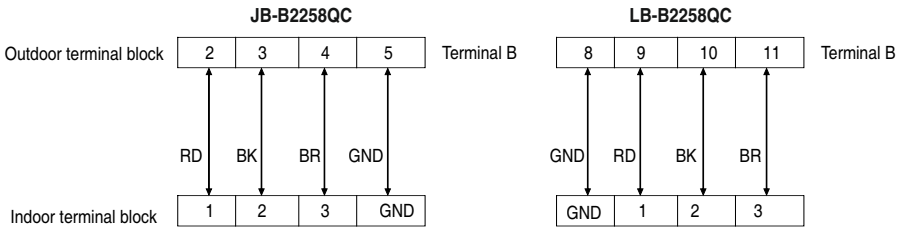
- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
  - Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.

1) Input 3-phase power supply into outdoor, cable specification 4 core 2.5 sq mm2 & Separable Earthing Wire.



Note : GND = Ground Earthing

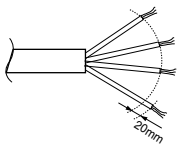
2) For connection between of Indoor and Outdoor unit & wire specification 4 core , 1.25 sq mm2 .



Note : GND = Ground Earthing

CAUTION

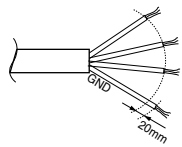
The power cord connected to the outdoor unit should be with the following specifications



NORMAL CROSS-SECTIONAL AREA

Capacity	3 Phase
30K BTU/h	2.5mm²

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



NORMAL CROSS-SECTIONAL AREA 1.25mm² (30K)

If the supply cord is damaged, it must be replaced by a special cord or assembly availible 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.

Connecting Cables between Indoor and Outdoor Unit

18/24/30K BTU/h

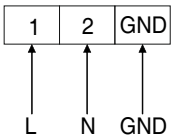
Applied Model:- LB-B2156QC, LB-B2156QC2, LB-B2206QC, LB-B2206QC2, LB-B2256QC, JB-B2156QC

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

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

Outdoor terminal block



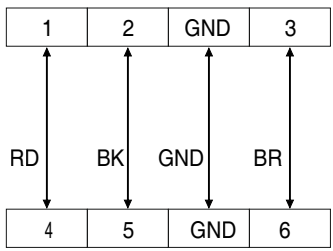
Wire specification.

Model	Capacity	1 Phase mm2 * core
LB-B2156QC / LB-B2156QC2	1.5 tr	2.5 mm2*3
LB-B2206QC / LB-B2206QC2	2 TR	2.5 mm2*3
LB-B2256QC	2.5 TR	2.5 mm2*3
JB-B2156QC	1.5 TR	2.5 mm2*3

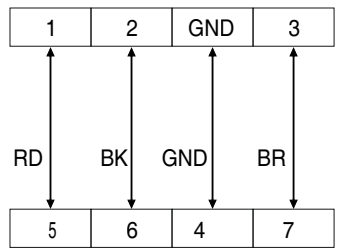
2) For connection between of Indoor and Outdoor unit & wire specifiacation

A) LB-B2156QC, LB-B2156QC2, LB-B2206QC, LB-B2206QC2, LB-B2256QC

Indoor terminal block



B) JB-B2156QC



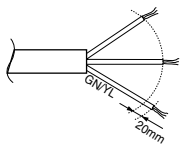
Note : GND = Ground Earthing

Wire specification.

Model	Capacity	1 Phase	No of core
LB-B2156QC/LB-B2156QC2	1.5 tr	1.5 mm2	4
LB-B2206QC/LB-B2206QC2	2 TR	1.5 mm2	4
LB-B2256QC	2.5 TR	1.5 mm2	4
JB-B2156QC	1.5 TR	1.5 mm2	4

CAUTION

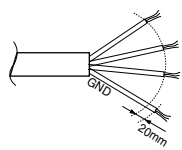
The power cord connected to the outdoor unit should be with the following specifications



NORMAL CROSS-SECTIONAL AREA

Capacity	1 Phase
18/24 K BTU/h	2.5mm²

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



NORMAL CROSS-SECTIONAL AREA 1.25mm² (18/24K)

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

⚠ WARNING

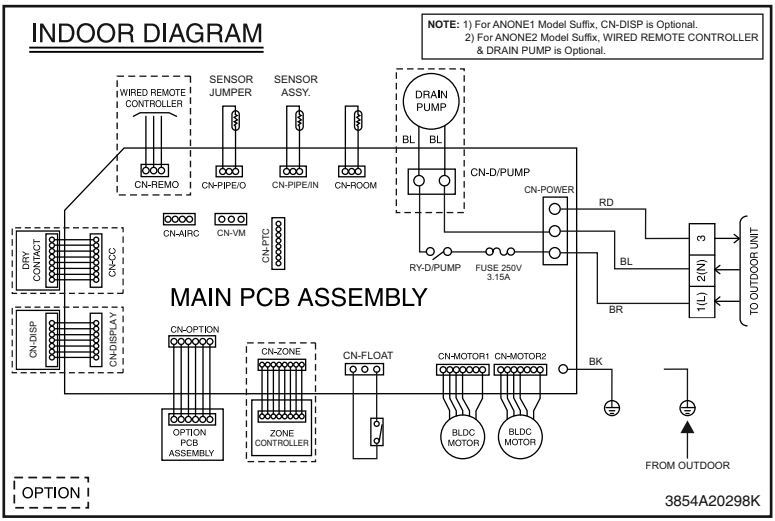
Make sure that the screws of the terminal are free from looseness.

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 :

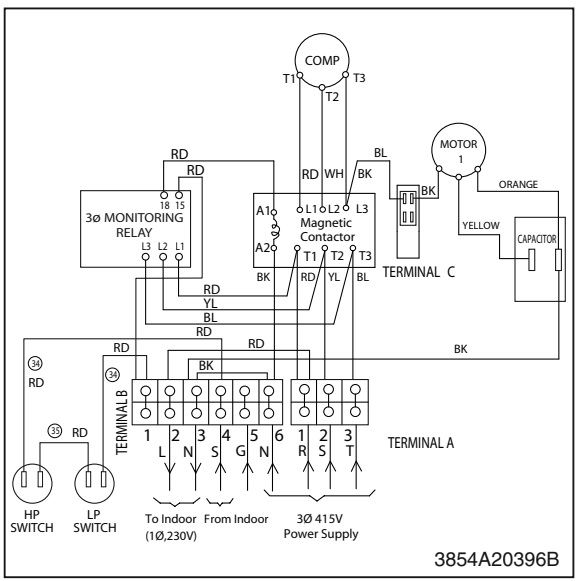
Model : JB-B2258QC (R410 Gas Charge Model)



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

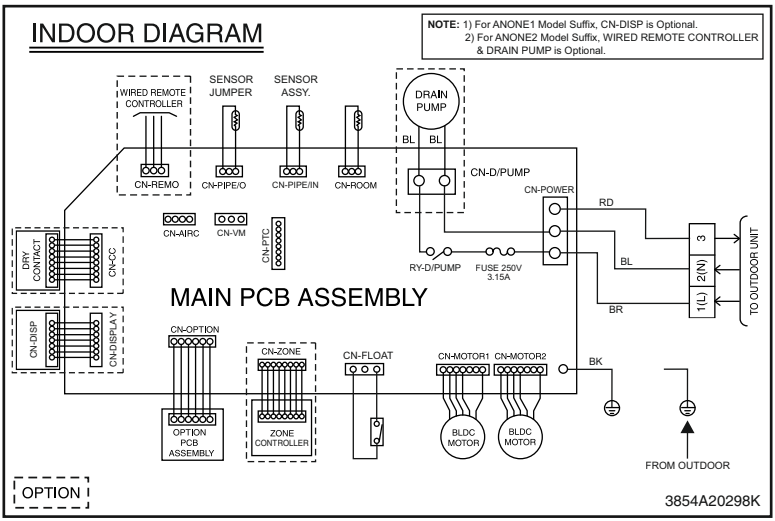
Outdoor Wiring Diagram :

Model : JB-B2258QC (R410 Gas Charge Model)



Indoor Wiring Diagram :

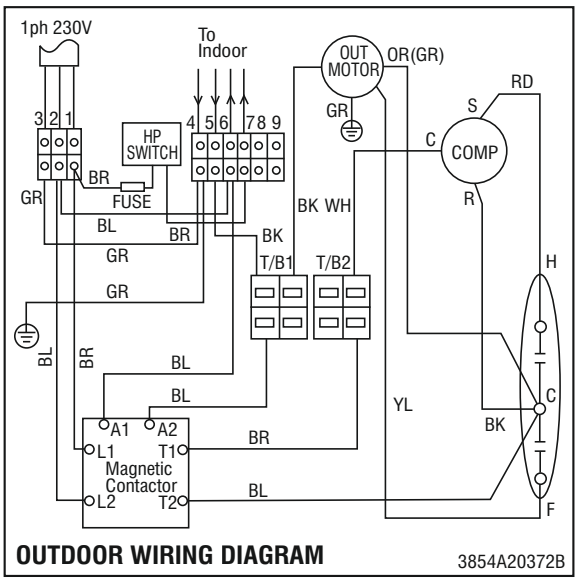
Model : JB-B2156QC (R410 Gas Charge Model)



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

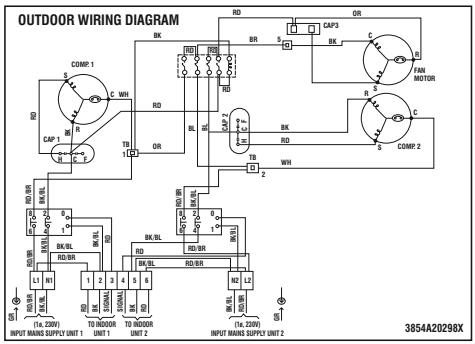
Outdoor Wiring Diagram :

Model : JB-B2156QC (R410 Gas Charge Model)



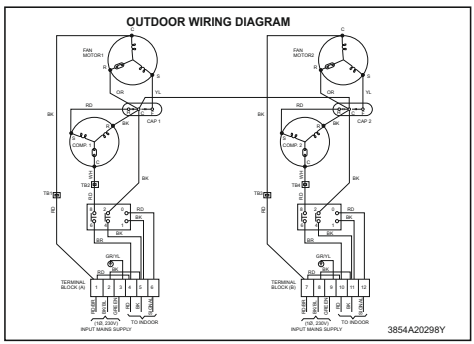
Outdoor Wiring Diagram :

Model : LMA36B2ALI (R-22 Gas Charge Model)



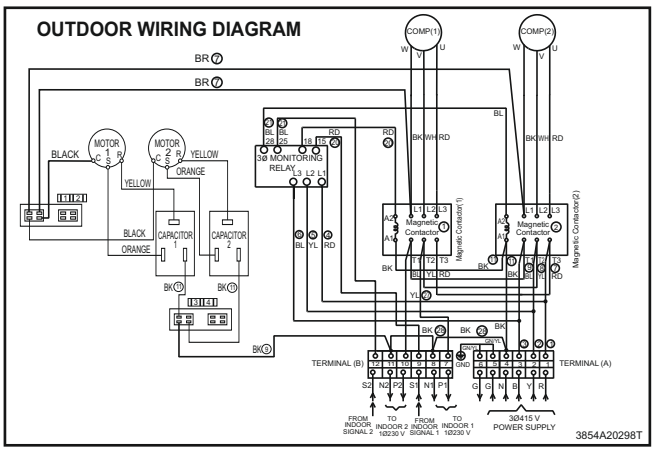
Outdoor Wiring Diagram :

Model : LMA48B2ALI (R-22 Gas Charge Model)



Outdoor Wiring Diagram :

Model : LMA60B2ALI (R-22 Gas Charge Model)

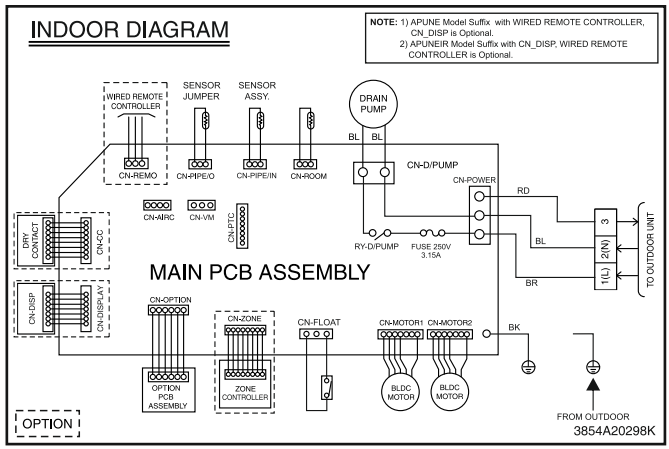


B) Wiring Diagram

Indoor Wiring Diagram :

Model :
LB-B2156QC /
LB-B2156QC2 /
LB-B2206QC /
LB-B2206QC2 /
LB-B2256QC /
LB-B2258QC /
LMA36B2ALI /
LMA48B2ALI /
LMA60B2ALI

(R-22 Gas Charge Model)



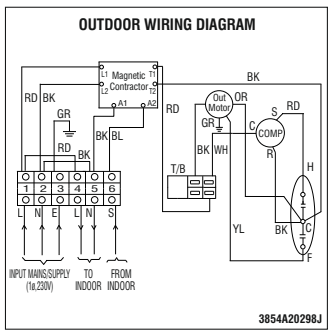
NOTE : Connect IR PCB Assy. at CN-DISP of PCB Assy.

Outdoor Wiring Diagram :

Model :

LB-B2256QC

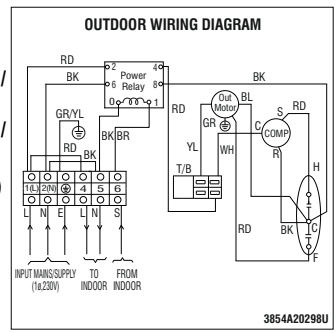
(R-22 Gas Charge Model)



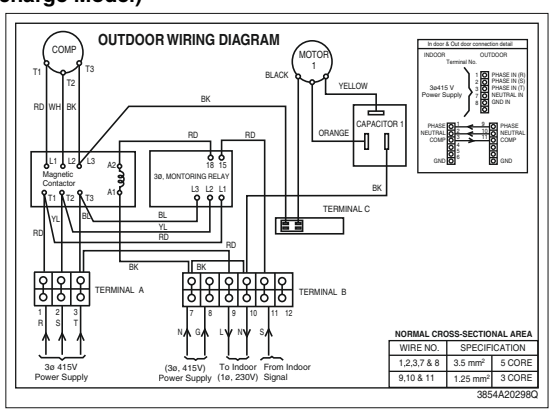
Model :

LB-B2156QC /
LB-B2156QC2 /
LB-B2206QC /
LB-B2206QC2 /

(R-22 Gas Charge Model)



Model : LB-B2258QC
(R-22 Gas charge Model)

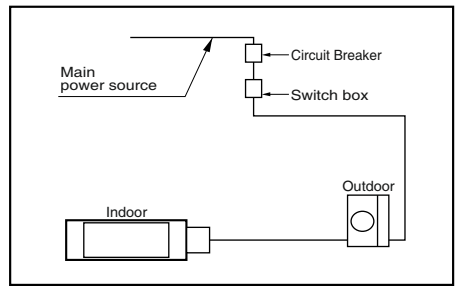


6). Connecting Cable between Indoor and Outdoor Unit

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

A) Circuit Breaker Detail

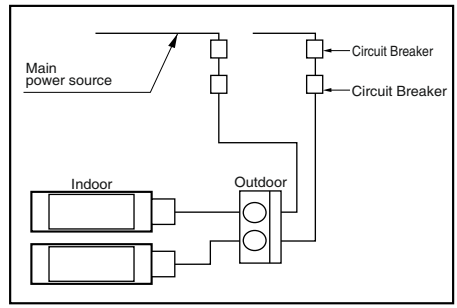
- All wiring must comply with local requirements.
- Select a power source that is capable of supplying the current required by the air conditioner.
- Use a recognized circuit breaker between the power source and the unit. A disconnection device to adequately disconnect all supply lines must be fitted.



- Capacity of circuit breaker

Model	Capacity	1 Phase	3 Phase
LB-B2156QC/LB-B2156QC2	1.5 TR	25	NA
LB-B2206QC/LB-B2206QC2	2 TR	25	NA
LB-B2256QC	2.5 TR	32	NA
LB-B2258QC	2.5 TR	NA	20
JB-B2156QC	1.5 TR	25	NA
JB-B2258QC	2.5 TR	NA	20
LMA36B2ALI	1.5x2 TR	20 x 2	NA
LMA48B2ALI	2.0x2 TR	20 x 2	NA
LMA60B2ALI	2.5x2 TR	NA	32

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

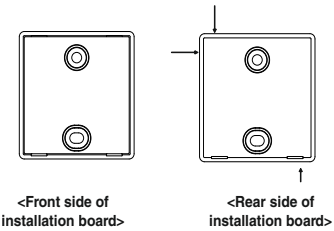


Installation of IR Remote Sensor

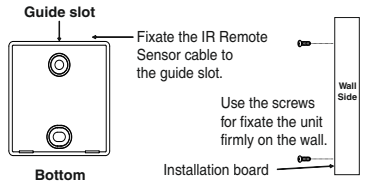
1. Connect the IR sensor cable to the CN-DISPLAY connector of main PCB Assy.

The IR sensor cable is connected as factory default.

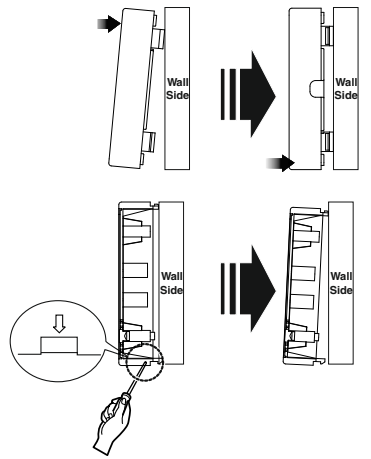
2. Fix the rear side of the installation board with the screw.



3. Now attach the IR PCB Assy at the rear side of installation board.



When disassemble the IR remote sensor from the installation board, use the driver as shown in the right picture and insert it into the hole with the arrow. And when you pull the driver in the front direction, the IR remote sensor will be separated.



⚠CAUTION

Do not install the cable to be 10m or above.
(It can cause communication error.)

- When installing the extension cable, check the connecting direction of the connector of the IR remote sensor side and the product side for correct installation.
- If you install the extension cable in the opposite direction, the connector will not be connected.
- Specification of extension cable: AWG 26 (2sim 7shield) or above

4. Connecting Pipes to the Outdoor Unit

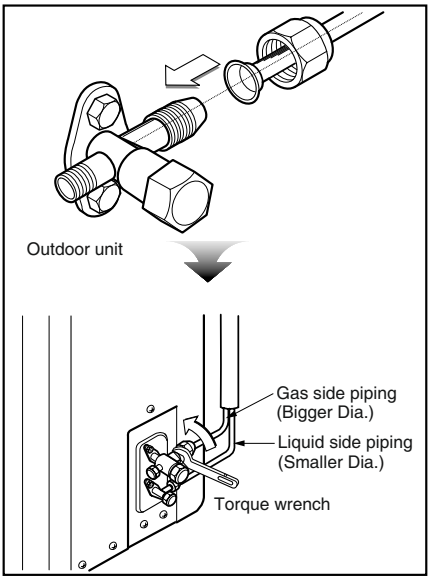
1) Connecting the pipes to the Outdoor unit

1. Align the center of the pipingsand sufficiently tighten the flare nut with fingers.

2. Finally tightenthe flare nut with torque wrenchuntilthe wrenchclicks.

- 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.)

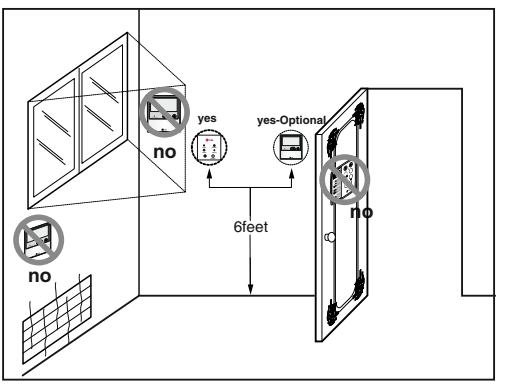


Fig.1 Typical locations for IR Remote Sensor

6) Pipe bending

Annealed copper pipe with small diameter (ø6.35 or ø9.52) 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 (ø12.7, ø15.88 or ø19.05), bend pipe with bender. Use bender appropriate for the pipe diameter.

7) *Brazing*

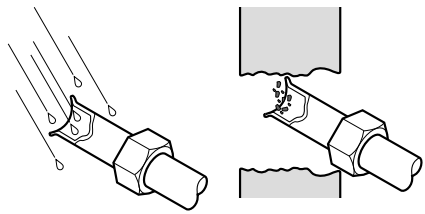
In refrigerant piping, bending (in particular, acute bending) must be minimized to reduce piping resistance. Bending is, however, necessary in some places by virtue of the installation position of devices or of the building structure, piping distance or finishing appearance. Perform brazing using ready-made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



Water enters Plaster enters

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, than put them on pipe/tube having completed burr removal.
  (Not possible to put them on after flaring work)

4) Flaring work

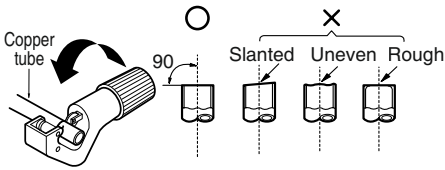
- Carry out flaring work using flaring tool as shown below.

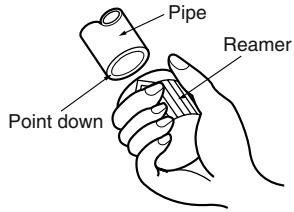
Outside Diameter	"A"
1/4"	0~0.5
3/8"	0.5~0.8
1/2"	0.5~0.8
5/8"	0.8~1.0
3/4"	1.0~1.3

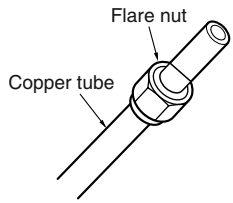
Firmly hold copper tube in a bar(or die) as indicated dimension in the table above.

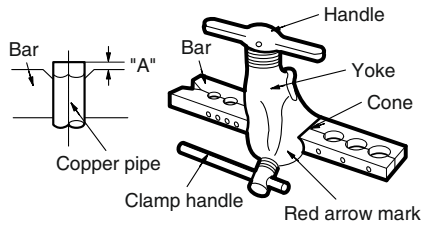
5) Check

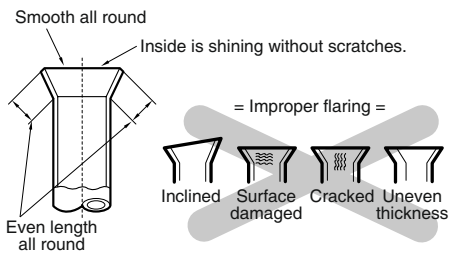
Compare the flared work with figure.
If flare is noted to be defective, cut off the flared section and do flaring work again.





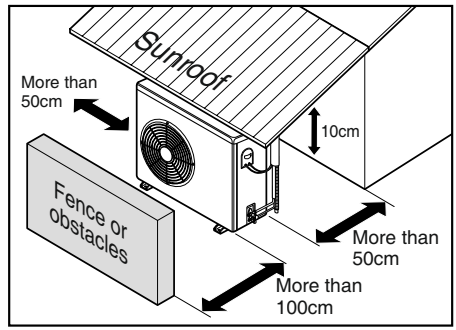






>>Outdoor unit space requirement.

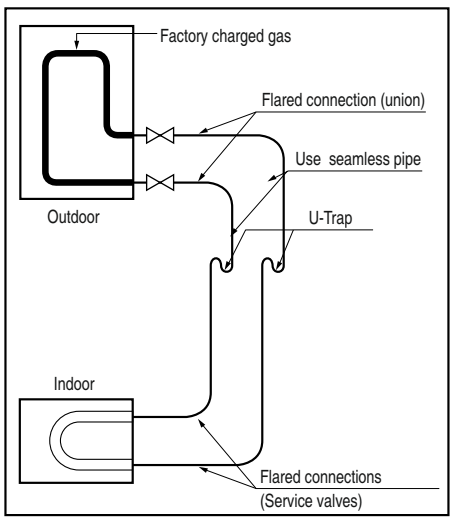
- If an awning is built over the unit to prevent direct sunlight or rain exposure, be careful that heat radiation from the condenser is not restricted.
- There should not be any animals or plants which could be affected by hot air discharged.
- Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.

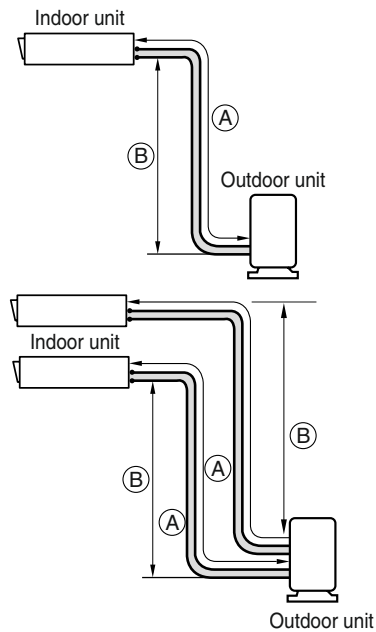


>>Piping length and the elevation

Model	Capacity	Pipi Sizes (Dia In Inch)		Length(A meter)		Elevation(B meter)		Additional Gas Charge
		Gas	Liquid	standard	Max	standard	Max	
LB-B2156QC/LB-B2156QC2	1.5 TR	1/2"	1/4"	7.5	30	5	15	R-22 15gm
LB-B2206QC/LB-B2206QC2	2 TR	5/8"	1/4"	7.5	30	5	15	R-22 20gm
LB-B2256QC/ LB-B2258QC	2.5 TR	5/8"	3/8"	7.5	30	5	15	R-22 25gm
JB-B2156QC	1.5 TR	5/8"	3/8"	7.5	80	5	35	R-410 30gm
JB-B2258QC	2.5 TR	5/8"	3/8"	7.5	80	5	35	R-410 30gm
LMA36B2ALI	1.5x2 TR	1/2" x 2	1/4"x2	5	30	5	15	R-22 15gm
LMA48B2ALI	2.0x2 TR	5/8" x 2	1/4"x2	5	30	5	15	R-22 20gm
LMA60B2ALI	2.5x2 TR	5/8" x 2	3/8"x2	5	30	5	15	R-22 25gm

- 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].





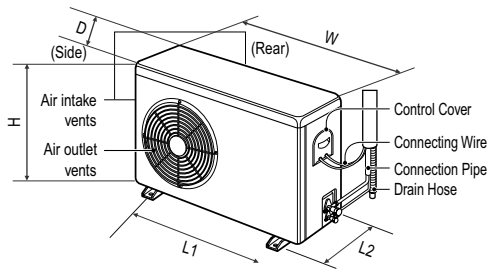
F). Outdoor Unit best location & piping.

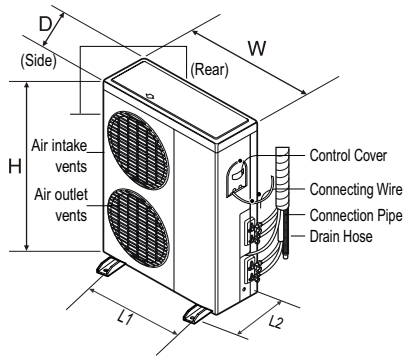
The heat exchanger coils and panel vents of the outdoor unit should be checked regularly. If clogged with dirt or soot, the heat exchanger and panel vents may be professionally steam cleaned.

Note:

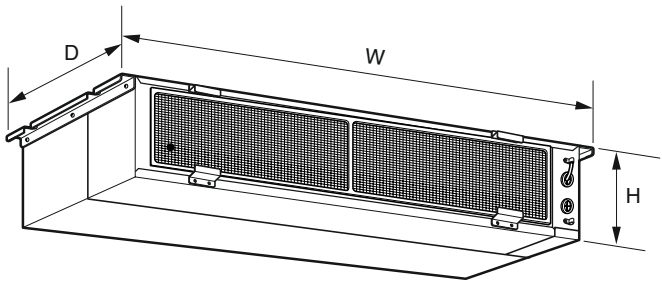
Dirty or clogged coils will reduce the operating efficiency of the system and cause higher operating costs.

Outdoor Unit





Indoor Unit



Model	Capacity	Indoor dimension			Outdoor Dimnesion				
		W	D	H	W	D	H	L1	L2
LB-B2156QC / LB-B2156QC2	1.5 TR	1180	575	190	800	260	555	590	305
LB-B2206QC / LB-B2206QC2	2 TR	1180	575	190	800	260	555	590	305
LB-B2256QC / LB-B2258QC	2.5 TR	1180	575	190	870	320	655	545	350
JB-B2156QC	1.5 TR	1180	575	190	870	320	655	545	350
JB-B2258QC	2.5 TR	1180	575	190	870	320	800	545	350
LMA36B2ALI	1.5x2 TR	1180	575	190	870	320	655	545	350
LMA48B2ALI	2.0x2 TR	1180	575	190	906	406	1135	606	465
LMA60B2ALI	2.5x2 TR	1180	575	190	906	406	1135	606	465

Care and maintenance

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

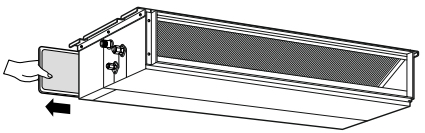
Indoor Unit

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.



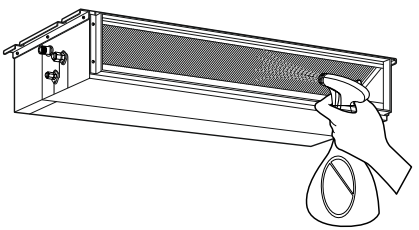
❑ Never use any of the followings:

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



Air Filter

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

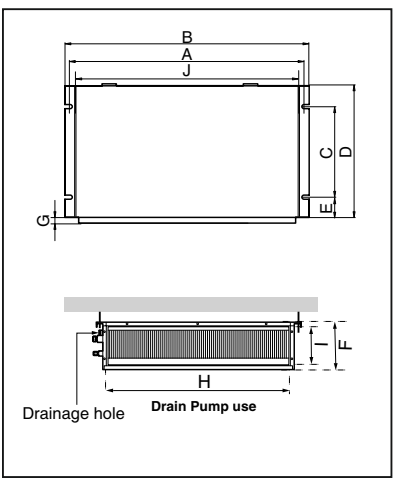


1. Clean the filter with a vacuum or warm, soapy water.
   - If very dirty, wash with a solution of detergent in lukewarm water.
   - If hot water (50°C or more) is used, filter may be deformed.
2. After washing with water, dry well in the shade.
3. Re-install the air filter.

Indoor Unit Dimensions (mm)

(Unit:mm)

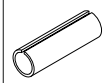
Dimension / Capacity(Btu/h)	A	B	C	D	E	F	G	H	I	J
18/24/30k BTU/h 36/48/60k BTU/h	1130	1180	383	575	93	190	21	1065	163	1100



HAND OVER

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

Standard Accessories

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

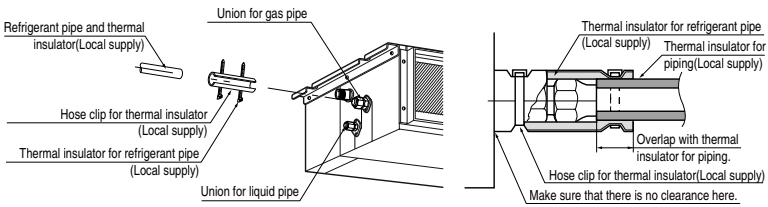
E). Insulation of the Piping & Drain

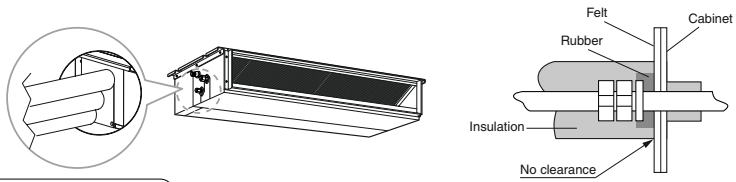
INSULATION, OTHERS

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?

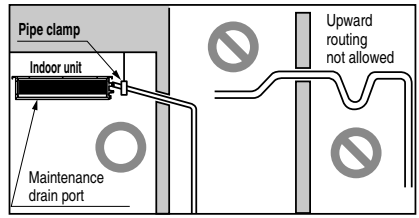
D). Drain Piping

- 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

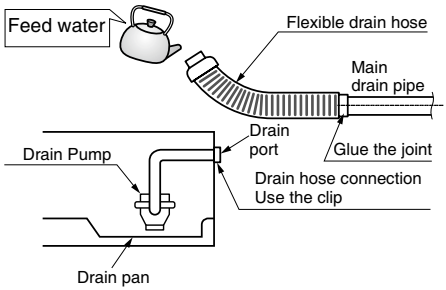
- Be sure to install heat insulation on the drain piping.

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



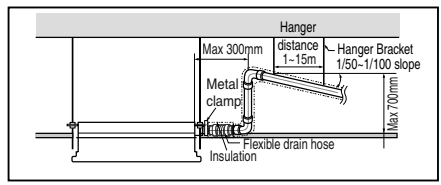
Drain test

The air conditioner uses a drain pump to drain water.
Use the following procedure to test the drain pump operation:



- 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 : 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 marked on the name plate.

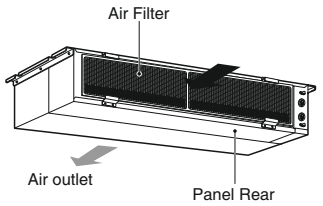
7) Confirm that the cable thickness is as specified in the power sources specification. (Particularly note the relation between cable length and thickness.)

8) Never fail to equip a leakage breaker where it is wet or moist.

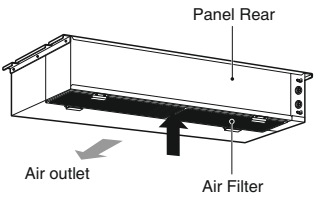
9) The following troubles would be caused by voltage drop-down.

- Vibration of a magnetic switch, damage on the contact point, fuse breaking, disturbance by the normal function of an overload protection device.
- Proper starting power is not given to the compressor.

C).Filter convertible option.



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



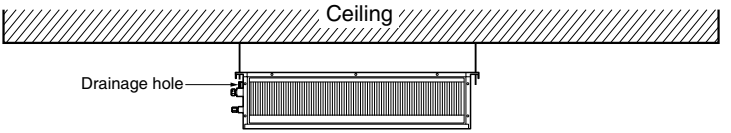
• Low static duct type in case of suction from bottom side.

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.

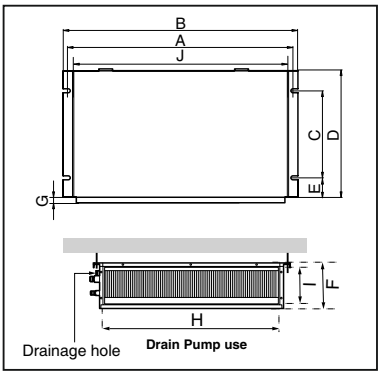


Drain Pump use

B).Ceiling dimension and hanging bolt location

Installation of Unit

Install the unit above the ceiling correctly.



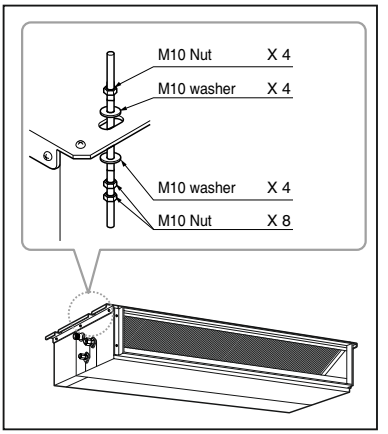
CASE 1

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.

(Unit:mm)

Dimension / Capacity(Btu/h)	A	B	C	D	E	F	G	H	I	J
18/24/30k BTU/h	1130	1180	383	575	93	190	21	1065	163	1100
36/48/60k BTU/h										



CASE 2

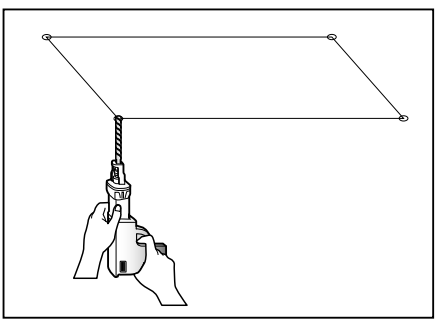
- Install the unit leaning to a drainage hole side as a figure for easy water drainage.

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.

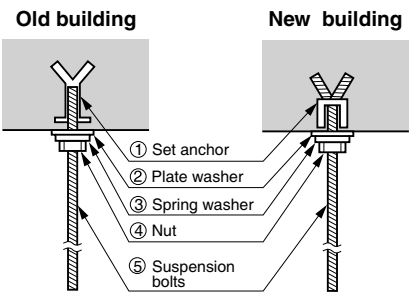
Indoor Unit Installation

- 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 bolts to the set anchor firmly.
- Secure the installation plates onto the suspension bolts (adjust level roughly) using nuts, washers and spring washers.



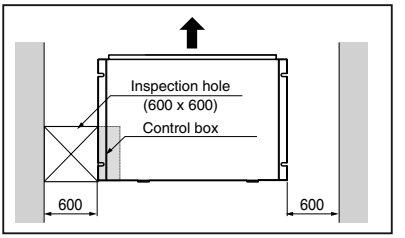
2). Installation of indoor & Outdoor.

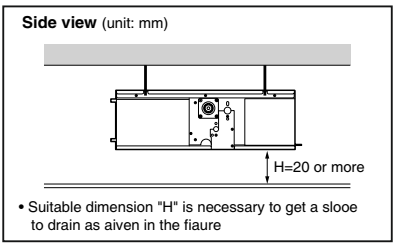
A).Selection of the best location of Indoor

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





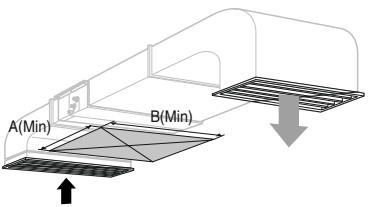
Confirm the positional relationship between the unit and suspension bolts.

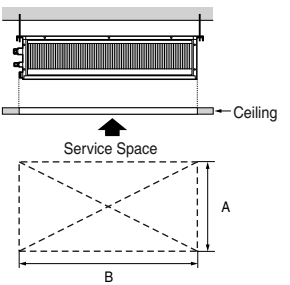
- Installation the ceiling opening to clean the filter or service under the product.

(Length: mm)

Capacity(Btu/h)	A	B
18/24/30k	600	1100
36/48/60k		

Low static Duct type





[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.

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 a leakage of water. Consult the dealer from whom you purchased the unit or special installer.

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.

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.

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.

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.

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.

Check that the refrigerant gas do not leak after installation is completed.

Be sure to use the part provided or specified parts for the installation work.

- 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

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- Connecting cable

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INSTALLATION MANUAL

AIR CONDITIONER

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

TYPE : LOW STATIC HIDE AWAY TYPE AIR CONDITIONER

For single duct low static models

MFL62760203

P/No. : MFL62760203_v0

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