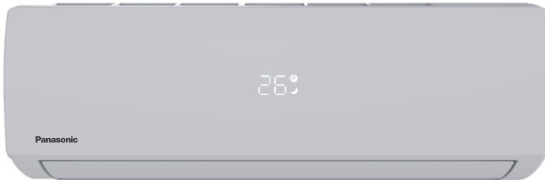




Operating Instructions

Air Conditioner



Model No.

Indoor Unit

CS-YE9WKU1
CS-YE12WKU1

Outdoor Unit

CU-YE9WKU1
CU-YE12WKU1



User Manual Air Conditioner

Thank you for purchasing Panasonic Air Conditioner.
operating instructions attached.

Before operating the unit, read these operating
instructions thoroughly and keep them for future
reference.

CONTENTS


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In line with the company's policy of continual product improvement, the aesthetic and dimensional characteristics, technical data and accessories of this appliance may be changed without notice.

Safety precautions


To prevent personal injury, injury to others or property damage, please comply with the following:

Incorrect operation due to failure to follow instructions below may cause harm or damage, the seriousness of which is classified as below:

 WARNING	This sign warns of death or serious injury.
---	---

 CAUTION	This sign warns of injury or damage to property.
---	--

The instructions to be followed are classified by the following symbols:









	This symbol denotes an action that is PROHIBITED .
--	---

	These symbols denote actions COMPULSORY .
--	--

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER



WARNING

-  Read this guide before installing and using the appliance.
-  During the installation of the indoor and outdoor units, the access to the working area should be forbidden to children. Unforeseeable accidents could happen.
-  Make sure that the base of the outdoor unit is firmly fixed.
-  Check that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.
-  The ratings of the fuse installed in the built-in control unit are T 5A / 250V.
-  The user must protect the indoor unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.
-  Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
-  Check that the socket is suitable for the plug, otherwise have the socket changed.

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER



WARNING

- ⚠ The appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules.
- ⚠ The air conditioner must be installed by professional or qualified persons.
- ⚠ Do not install the appliance at a distance of less than 20" from inflammable substances (alcohol, etc.) or from pressurized containers (e.g. spray cans).
- ⚠ If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a danger of fire.
- ⚠ Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.
- ⚠ The appliance must be installed in accordance with applicable national regulations.
- ⚠ Before accessing the terminals, all the power circuits must be disconnected from the power supply.
- ⚠ Installation must be performed in accordance with the requirements of NEC and CEC by authorized personnel only.
- ⚠ This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- ⚠ Carry out a test cycle after installing the air conditioner and record the operatingData.
- ⚠ The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its life to an authorized waste collection center for disposal.
- ⚠ Do not try to install the air condition alone; always contact specialized technical personnel.
- ⚠ Cleaning and maintenance must be carried out by specialized technical personnel. In any case disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance.
- ⚠ Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
- ⚠ Do not pull out the plug to switch off the appliance when it is in operation, since this could create a spark and cause a fire, etc.

SAFETY RULES AND RECOMMENDATIONS FOR THE USER



WARNING

- ⚠ The user is responsible for having the appliance installed by a qualified technician, who must check that it is earthed in accordance with current legislation and insert a thermomagnetic circuit breaker.
- ⚠ Never remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposition to cold air could be dangerous for your health. Particular care should be taken in the rooms where there are children, old or sick people.
- ⚠ If the appliance gives off smoke or there is a smell of burning, immediately cut off the power supply and contact an authorized service Center.
- ⚠ The prolonged use of the device in such conditions could cause fire or electrocution.
- ⚠ Have repairs carried out only by an authorized Service Center. Incorrect repair could expose the user to the risk of electric shock, etc.
- ⚠ Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.
- ⚠ This appliance has been made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothes, cooling food, etc.
- ⚠ Always use the appliance with the air filter mounted. The use of the conditioner without air filter could cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.
- ⚠ The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its life to an authorized waste collection center for disposal.
- ⚠ The batteries in the remote control must be recycled or disposed of properly. Disposal of Scrap Batteries - Please discard the batteries as sorted municipal waste at the accessible collection point.
- ⚠ Unhook the automatic switch if you foresee not using the device for a long time. The airflow direction must be properly adjusted
- ⚠ The flaps must be directed downwards in the heating mode and upwards in the cooling mode.
- ⚠ Selecting the most suitable temperature can prevent damage to the appliance.
- ⚠ Ensure that the appliance is disconnected from the power supply when it will remain inoperative for a long period and before carrying out any cleaning or maintenance

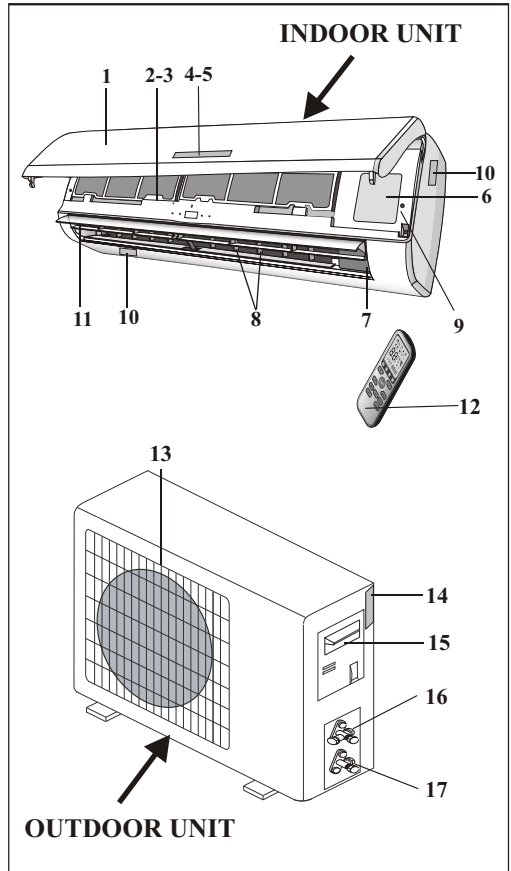
SAFETY RULES AND PROHIBITIONS

- ⊘ Do not bend, tug or compress the power cord since this could damage it. Electrical shocks or fire is caused by a damaged power cord. Specialized technical personnel only must replace a damaged power cord.
- ⊘ Do not use extensions or gang modules.
- ⊘ Do not touch the appliance when barefoot or parts of the body are wet or damp.
- ⊘ Do not obstruct the air inlet or outlet of the indoor or the outdoor unit. The obstruction of these openings causes a reduction in the operative efficiency of the air conditioner with possible consequent failures or damages.
- ⊘ In no way alter the characteristics of the appliance.
- ⊘ Do not install the appliance in environments where the air could contain gas, oil or Sulphur or near sources of heat.
- ⊘ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- ⊘ Do not climb onto or place any heavy or hot objects on top of the appliance.
- ⊘ Do not leave windows or doors open when the air conditioner is operating.
- ⊘ Do not direct the airflow onto plants or animals.
- ⊘ A long direct exposition to the flow of cold air of the conditioner could have negative effects on plants and animals.
- ⊘ Do not put the conditioner in contact with water. The electrical insulation could be damaged and thus causing electrocution.
- ⊘ Do not climb onto or place any objects on the outdoor unit.
- ⊘ Never insert your finger, a stick, etc. into the air inlet / outlet. Doing so could cause injury.
- ⊘ Children should be supervised to ensure that they do not play with the appliance. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

NAMES OF THE PARTS

INDOOR UNIT

No.	Description
1	Front panel
2	Air filter
3	Optional filter (if installed)
4	LED Display
5	Signal receiver
6	Terminal block cover
7	Ionizer generator(if installed)
8	Deflectors
9	Emergency button
10	Indoor unit rating label (Stick position optional)
11	Airflow direction flaps
12	Remote control



OUTDOOR UNIT

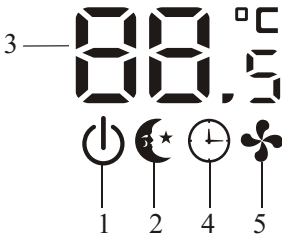
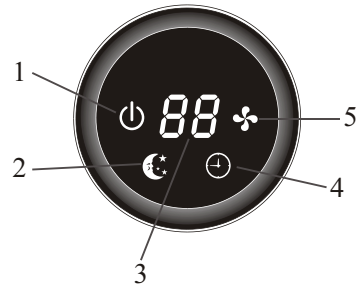
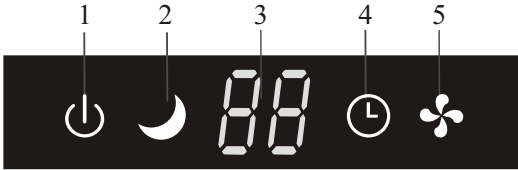
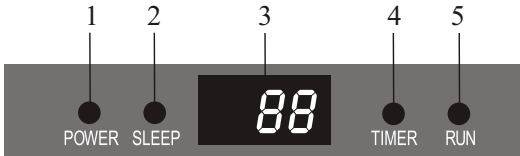
No.	Description
13	Air outlet grille
14	Outdoor unit rating label
15	Cover
16	gas valve
17	liquid valve

WALL AIR-CONDITIONER

- The air conditioner is made up of two or more units connected between themselves through copper pipes (properly insulated) and an electrical connecting cable.
- The indoor unit is installed on the walls of the room to be conditioned.
- The outdoor unit is installed on the floor or on the wall on suitable brackets.
- Technical data of the air conditioner are printed on the labels placed on the indoor and outdoor units.
- The remote control has been designed for easy and fast use.

Note: the above figures are only intended to be a simple diagram of the appliance and may not correspond to the appearance of the units that have been purchased.

INDOOR UNIT DISPLAY



No.	Led		Function
1	POWER	⏻	This symbol appears when the unit is power on
2	SLEEP	☾	SLEEP mode
3	Temperature display (if present) /Error code	88	(1) Lights up during Timer operation when the air conditioner is operational (2) Displays the malfunction code when fault occurs.
4	TIMER	⌚	Lights up during Timer operation.
5	RUN	⚙️	The symbol appears when the unit is turned on, and disappear when the unit is turned off.

⚠️ *The shape and position of switches and indicators may be different according to the model, but their function is the same.*

According to the model, it may only show 2 numbers on the indoor display though there are 3 numbers on display of the remote controller. (Example: it is 28.5 on the display of the remote controller but 28 on the indoor display)

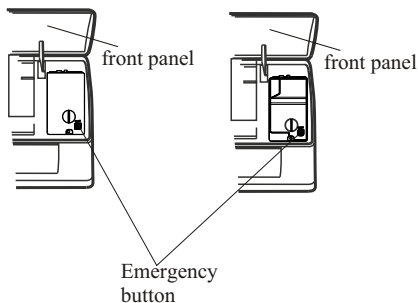
EMERGENCY FUNCTION & AUTO-RESTART FUNCTION

EMERGENCY FUNCTION

If the remote controller fails to work or maintenance necessary, proceed as following:

Open and lift the front panel up to an angle to reach the emergency button.


Press the emergency button, the unit will operate COOL mode at first. Press again within 3 seconds, the unit will change to HEAT mode. Press again after 5 seconds, the unit will turn off.




The emergency button is located on the right end of the unit under the front panel.


AUTO-RESTART FUNCTION


The appliance is preset with an auto-restart function. In case of a sudden power failure, the module will memorizes the setting conditions before the power failure. When the power restores, the unit will restart automatically with the previous settings preserved by the memory function.


 *The shape and position of the emergency button may be different according to the model, but their function is the same.*

REMOTE CONTROL (NOTE: SEE ILLUSTRATION ON PAGE 89)

No.	Button	Function
1		To turn on or off the air conditioner .
2	∨	To decrease temperature, time setting or choose the function.
3	∧	To increase temperature, time setting or choose the function.
4	Mode	To select the mode of operation(AUTO COOLDRY FAN HEAT).
5	Eco	Press this button to activate/deactivate the ECO function .
6	Turbo	Press this button to activate/deactivate the Super function which enables the unit to reach the preset temperature in the shortest time.
7	Fan	To select the fan speed of auto/low/mid/high.
8	Timer	To set the automatic switch-on/off time.
9	Sleep	To switch-on/off of the function SLEEP.
10	Display	To switch-on/off of the LED display.
11	Swing	To switch-on/off of the auto-swing function of deflectors.
12	Mute	To switch-on/off of the Mute function.
13	I Feel	To switch-on/off of the follow me function.

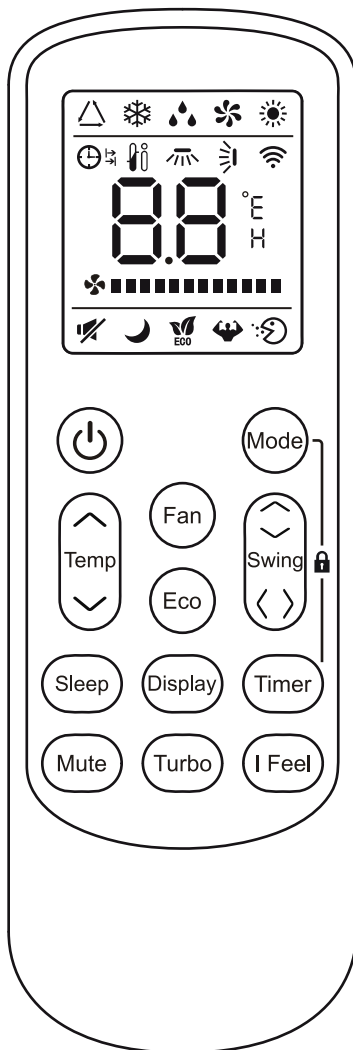
 *The display and some functions of the remote control may vary according to the model.*

 *The shape and position of buttons and indicators may vary according to the model, but their function is the same.*

 *The unit confirms the correct reception of each button with a beep.*

REMOTE CONTROL


















- ⚠ The display and some functions of the remote control may vary according to the model.
- ⚠ The shape and position of buttons and indicators may vary according to the model, but their function is the same.
- ⚠ The unit confirms the correct reception of each button with a beep.



REMOTE CONTROL

Remote control DISPLAY

Meaning of symbols on the liquid crystal display

No.	Symbols	Meaning
1		Battery indicator
2		Mode Auto function indicator
3		Mode Cooling indicator
4		Mode Dry indicator
5		Mode Fan indicator
6		Mode Heating indicator
7		ECO indicator
8		Timer indicator
9		Temperature indicator
10		Fan speed indicator: Auto/low/mid/high
11		Mute indicator
12		SUPER indicator
13		Up-down auto swing indicator
14		Left-right auto swing indicator
15		SLEEP function indicator
16		Health function indicator
17		I FEEL functions indicator



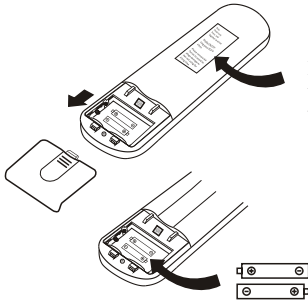
The display and some functions of the remote control may vary according to the model.

REMOTE CONTROL

Replacement of Batteries

Remove the battery cover plate from the rear of the remote control, by sliding it in the direction of the arrow. Install the batteries according the direction (+and -)shown on the Remote Control. Reinstall the battery cover by sliding it into place.

- ⚠ Use 2 LRO 3 AAA (1.5V) batteries. Do not use rechargeable batteries.
 Replace the old batteries with new ones of the same type when the display is no longer legible.
 Do not dispose batteries as unsorted municipal waste.
 Collection of such waste separately for special treatment is necessary.



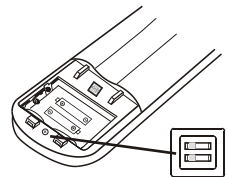
Note
 Please remove batteries to avoid leakage damage when not using for a long time.

- ⚠ For some model, each time when insert the batteries in the remote controller for the first time, you need to set the Cooling only or Heating pump control type. As soon as you insert the batteries, the symbols (❄) and (☀) start flashing, operate as below,
 1. When the (❄) is displayed, push any button, to set the Cooling only type remote controller.
 2. When the (☀) is displayed, push any button, to set the Heating pump type remote controller.

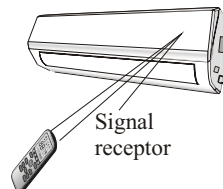
NOTE: If you set the remote control in cooling mode, it will not be possible to activate the heating function in units with a heating pump . If you need to reset, take out the batteries and install again.

- ⚠ For some model of remote controller, open the battery cover, and you can see the manual switch at the bottom, then you can select the Cooling only or Heating pump, operate as below,

DIP switch on position	Function
°C	The display is adjusted in degree celsius
°F	The display is adjusted in degree fahrenheit.
Cool	The display is adjusted in only cooling mode
Heat	The display is adjusted in cooling and heating mode



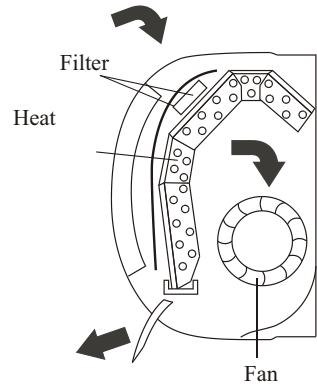
- ⚠ 1. Direct the remote control toward the Air conditioner.
 2. Check that there are no objects between the remote control and the Signal receptor in the indoor unit.
 3. Never leave the remote control exposed to the rays of the sun.
 4. Keep the remote control at a distance of at least 1m from the television or other electrical appliances.





OPERATING INSTRUCTIONS




The air sucked by the fan enters from the grill and passes through the filter, then it is cooled/dehumidified or heated through the heat exchanger.

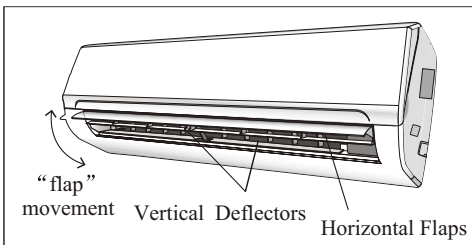
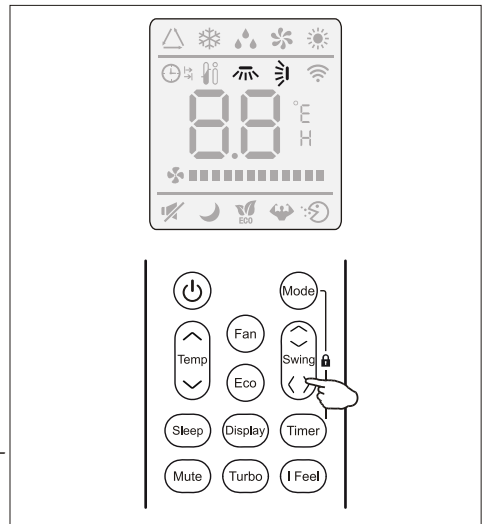
The direction of the air outlet is motorized up and down by flaps, and manually moved right and left by the vertical deflectors, for some models, the vertical deflectors could be controlled by motor as well.



“SWING” CONTROL OF THE AIR FLOW

1. Press the button SWING to activate the louver,
 - (1) Press  to activate the horizontal flaps to swing from up to down. Press again to stop the swing movement at the current angle.
 - (2) Press  to activate the vertical deflectors to swing from left to right. Press again to stop the swing movement at the current angle.
2. If the vertical deflectors are positioned manually which placed under the flaps, they allow to move the air flow direct to rightward or leftward.

-  This adjustment must be done while the appliance is switched off.
-  Never position “Flaps” manually, the delicate mechanism might seriously damaged!
-  Never poke fingers, sticks or other objects in the air inlet or outlet vents. Such accidental contact with live parts might cause unforeseeable damage or injury.



OPERATING INSTRUCTIONS

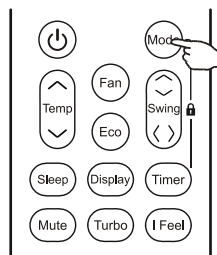
COOLING MODE

COOL

The cooling function allows the air conditioner to cool the room and at the same time reduces Air humidity.

To activate the cooling function (COOL), press the **MODE** button until the symbol ☀️ appears on the display.

With the button ▼ or ▲ set a temperature lower than that of the room.



HEATING MODE

HEAT

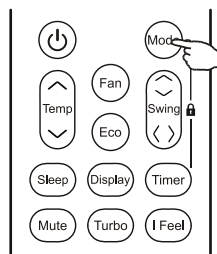
The heating function allows the air conditioner to heat the room.

To activate the heating function (HEAT), press the **MODE** button until the symbol ☀️ appears on the display.

With the button ▼ or ▲ set a temperature higher than that of the room.



In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to clean the frost on the condenser so as to recover its heat exchange function. This procedure usually lasts for 2-10 minutes. During defrosting, indoor unit fan stop operation. After defrosting, it resumes to HEATING mode automatically.




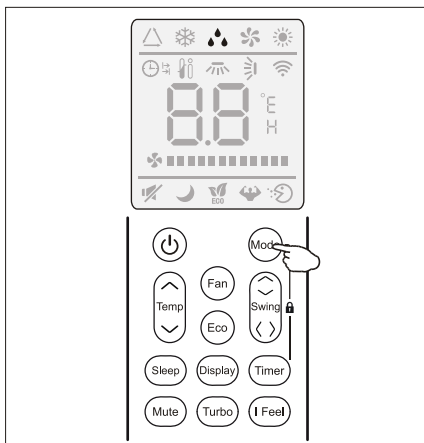
OPERATING INSTRUCTIONS

DRY MODE

DRY

This function reduces the humidity of the air to make the room more comfortable.


To set the DRY mode, Press **MODE** until  appears in the display. An automatic function of pre-setting is activated.

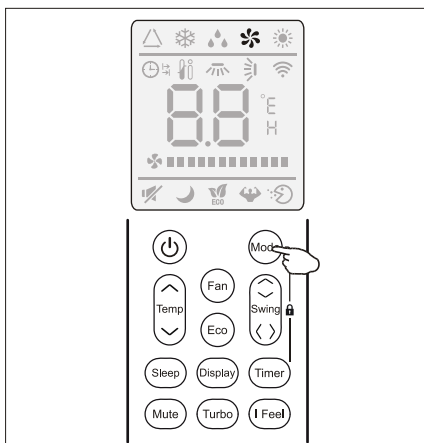


FAN MODE(Not FAN button)

FAN

Fan mode, air ventilation only.


To set the FAN mode, press **MODE** until  appears on the display.



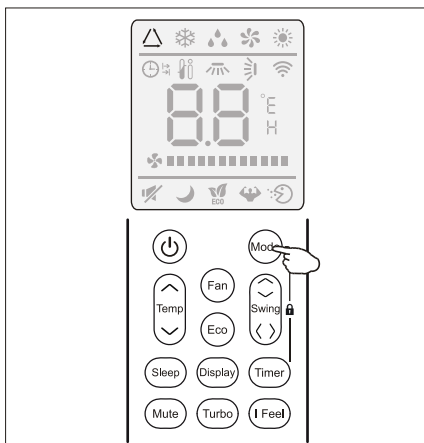
AUTO MODE

AUTO

Automatic mode.

To set the AUTO mode, press **MODE** until  appears on the display.

In AUTO mode the run mode will be set automatically according to the room temperature.



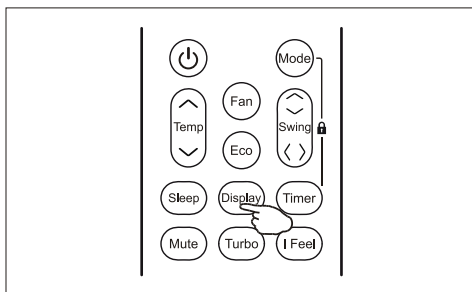
OPERATING INSTRUCTIONS

DISPLAY function (Indoor display)

DISPLAY

Switch ON/OFF the LED display on panel.


Press **DISPLAY** button to switch off the LED display on the panel. Press again to switch on the LED display.



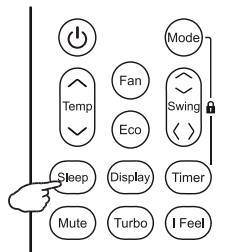
SLEEP function

SLEEP

Pre-setting automatic operating program.

Press **SLEEP** button to activate the SLEEP function, and  appears on the display. Press again to cancel this function.

After 10 hours running in sleep mode, the air conditioner will change to the previous setting mode.

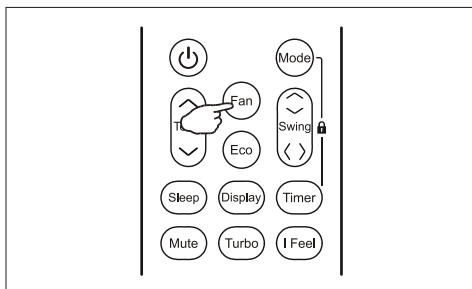


FAN function (FAN button)

FAN

Change the operating fan speed.

Press **FAN** button to set the running fan speed, it can be set to AUTO/LOW/MID/HIGH speed.




OPERATING INSTRUCTIONS

ECO function

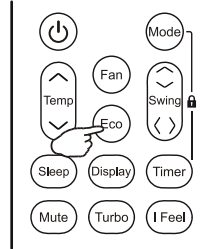
ECO

In this mode the appliance automatically sets the operation to save energy.

Press the **ECO** button, the  appears on the display, and the appliance will run in ECO mode. Press again to cancel it.


NOTE:

The ECO function is available in both COOLING and HEATING modes.

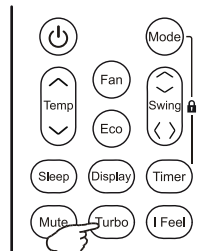


Turbo function

TURBO

To activate turbo function, press the **TURBO** button, and  will appear on the display. Press again to cancel this function.

In COOL/HEAT mode, when you select TURBO feature, the appliance will operate the highest fan setting to blow the strong airflow.




OPERATING INSTRUCTIONS

TIMER function ---- TIMER ON

TIMER To automatic switch on the appliance.

When the unit is switch-off, you can set the TIMER ON.
To set the time of automatic switch-on, as below:

1. Confirm the appliance is OFF. And press the **TIMER** button at first time to set the needed mode and fan speed, the  will appear on the display.
2. Set the needed mode(Cool/Heat/Auto/Fan/Dry), by press the **MODE** button. And set the needed fan speed, by press **FAN** button. And press \wedge or \vee to set the needed operation temperature.
3. Press **TIMER** button at the second time to set the switch-on. Press \wedge or \vee to set the needed timer.
4. Press **TIMER** button at the third time to confirm.

CANCEL it by press **TIMER** button.

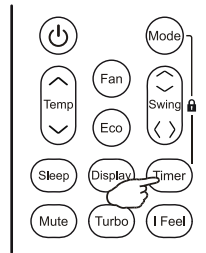


Figure1,Timer-on when switch off

TIMER function ---- TIMER OFF

TIMER To automatic switch off the appliance.

When the unit is switch-on, you can set the TIMER OFF.
To set the time of automatic switch-off, as below:

1. Confirm the appliance is ON.
2. Press the **TIMER** button at first time to set the switch-off. Press \wedge or \vee to set the needed timer.
3. Press **TIMER** button at the second time to confirm.

CANCEL it by press **TIMER** button.

Note:

All programming should be operated within 5 seconds, otherwise the setting will be cancelled.

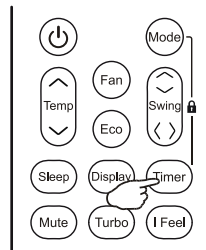



Figure2,Timer-off when switch on

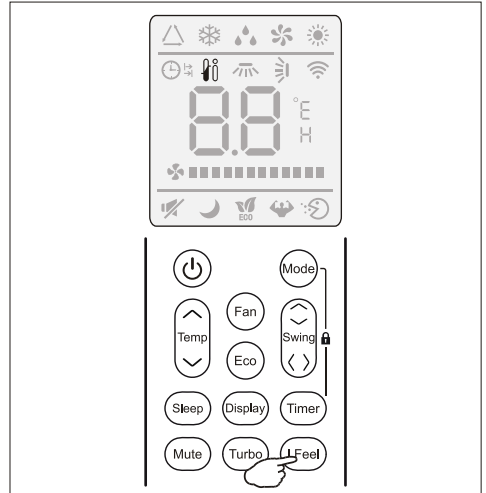
OPERATING INSTRUCTIONS

I FEEL function (Optional)

I FEEL


Press **I FEEL** button to activate the function, the  will appear on the remote display.
Do it again to deactivate this function.

This function enables the remote control to measure the temperature at its current location, and send this signal to the air conditioner to optimize the temperature around you and ensure the comfort.
It will automatically deactivate 2 hours later.



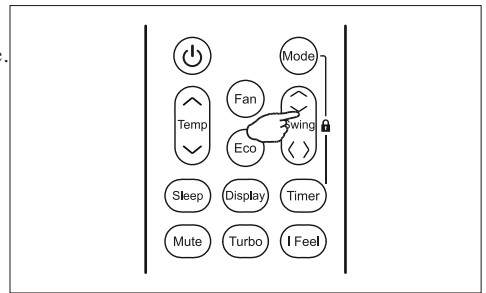
SELF-CLEAN function (Optional)

It is only optional for heating pump inverter appliance.
To active this function, press **SWING** and **SWING** button at the same time, until hear a beep from indoor unit.

1. This function helps carry away the accumulated dirt, bacteria, etc from the indoor evaporator.
2. This function will run about 30 minutes, and it will return to the pre-setting mode .You can press  button to cancel this function during the process.
You will hear 2 beeps when it's finished or cancelled.
3. It's normal if there is some noise during this function process, as plastic materials expand with heat and contract with cold.
4. We suggest operating this function at the following ambient conditions to avoid certain safety protection features.


Indoor unit	Temp < 86°F (30°C)
Outdoor unit	41°F (5°C) < Temp < 86°F (30°C)

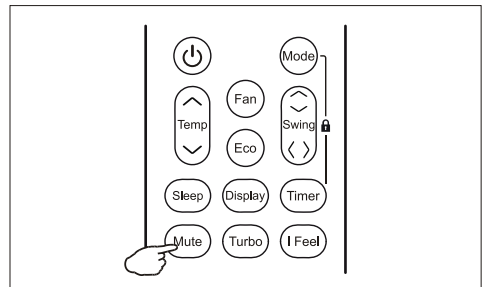
5. It's suggested to utilize this function every 3 months.



MUTE function (Optional)

MUTE


1. Press **MUTE** button to active this function, and  will appears on the remote display.
Do it again to deactivate this function.
2. When the MUTE function runs, the remote controller will display the auto fan speed, and the indoor unit will operate at lowest fan speed to be quiet feeling.
3. When press FAN/TURBO/SLEEP button, the MUTE function will be cancel. MUTE function can not be activated under dry mode.



PROTECTION

The protective device may trip and stop the appliance in the cases listed below.

MODEL Temperature	Cooling operating	Heatling operating	Drying operating
Room Temperature	17°C~32°C 63°F~89°F	0°C~30°C 32°F~86°F	17°C~32°C 63°F~89°F
Outdoor Temperature	15°C~53°C 59°F~127°F	-25°C~30°C -13°F~86°F	15°C~53°C 59°F~127°F
	-15°C~53°C 5°F~127°F For models with low temperature cooling system		

 *After stopping and restarting the air conditioner or after changing the mode during operation, the system does not restart immediately, until after 3 minutes(Protection function for the compressor).*

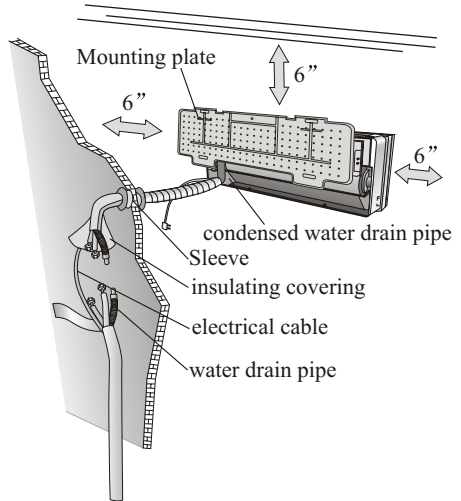
INSTALLATION---Selecting the Installation Place

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the products dealt with in this service information by anyone else could result in serious injury or death.

INDOOR UNIT

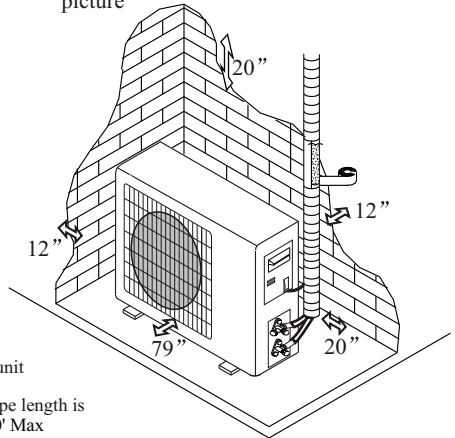
- Install the indoor unit level on a strong wall that is not subject to vibrations.
- The inlet and outlet ports should not be obstructed: the air should be able to blow all over the room.
- Do not install the unit near a source of heat, steam, or flammable gas.
- Install the unit near an electric socket or private circuit.
- Do not install the unit where it will be exposed to direct sunlight.
- Install the unit where connection between indoor and outdoor unit is as easy as possible.
- Install the unit where it is easy to drain the condensed water.
- Check the machine operation regularly and leave the necessary space (as shown in the picture).
- Install the indoor unit where the filter can be easily accessible.



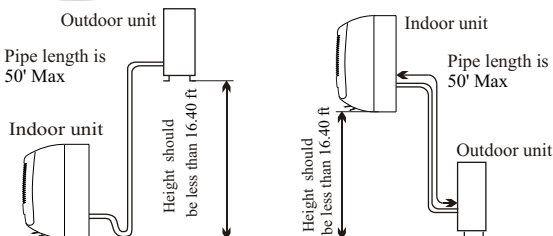
OUTDOOR UNIT

- Do not install the outdoor unit near sources of heat, steam or flammable gas.
- Do not install the unit in too windy or dusty places.
- Do not install the unit where people often pass. Select a place where the air discharge and operating sound level will not disturb neighbours.
- Avoid installing the unit where it will be exposed to direct sunlight (other wise use a protection, if necessary, that should not interfere with the air flow).
- Leave space as shown in the picture for the air to circulate freely.
- Install the outdoor unit in a safe and solid place.
- If the outdoor unit is subject to vibration, place rubber gaskets onto the feet of the unit.

Minimum space to be left showing in the picture



Installation Diagram



Only persons and/or companies qualified and experienced in the installation, service and repair of refrigerant products should be permitted to do so. The purchaser must ensure that the person and/or company who is to install, service or repair this air conditioner has qualifications and experience in refrigerant products.

INSTALLATION MANUAL---Installation of the Indoor unit

Before starting installation, decide on the position of the indoor and outdoor units, taking into account the minimum space required around the units.

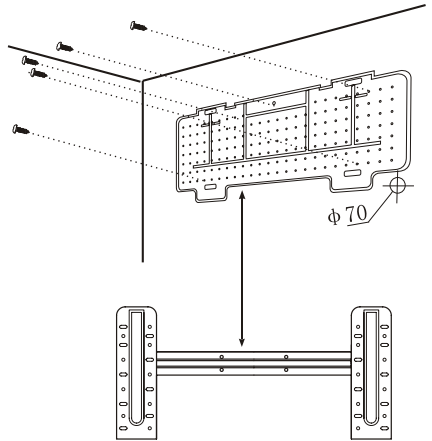
- ⚠ Install the indoor unit in the room to be air conditioned avoiding in corridors or communal areas.
- ⚠ Install the indoor unit at a height of at least 8 ft from the ground.

To install, proceed as follows:

Installation of the mounting plate

1. By using a level, put the mounting plate in a perfect square position vertically and horizontally.
2. Drill 1.26 inch deep holes in the wall to fix the plate;
3. Insert the plastic anchors into the hole;
4. Fix the mounting plate by using the provided tapping screws;
5. Check that the mounting plate is correctly fixed;

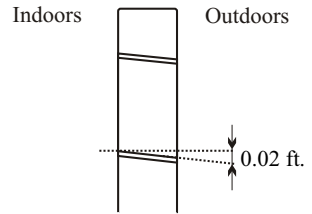
Note : The shape of the mounting plate may be different from the one above, but installation method is similar .



Drilling a hole in the wall for the piping

1. Decide where to drill the hole in the wall for the piping (if necessary) according to the position of the mounting plate;
 2. Install a flexible flange through the hole in the wall to keep the latter intact and clean.
- ⚠ The hole must slope downwards towards the exterior.

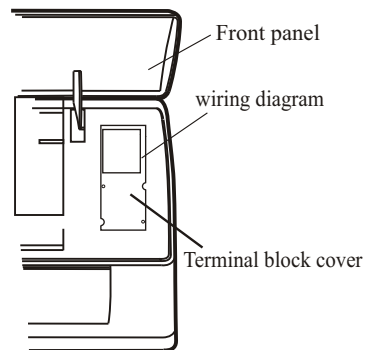
Note : Keep the drain pipe down towards the direction of the wall hole, otherwise leakage may occur.



Electrical connections---Indoor unit

1. Lift the front panel.
2. Take off the cover as indicated in the picture (by removing a screw or by breaking the hooks).
3. For the electrical connections, see the circuit diagram on the right part of the unit under the front panel.
4. Connect the cable wires to the screw terminals by following the numbering. Use wire size suitable to the electric power input (see name plate on the unit) and according to all current national safety code requirements.
5. The cable connecting the outdoor and indoor units must be suitable for outdoor use.
6. The plug must be accessible also after the appliance has been installed so that it can be pulled out if necessary.
7. An efficient earth connection must be ensured.
8. If the power cable is damaged, it must be replaced by an authorised Service Centre.

Note: The cable wires has been connected to the main PCB of indoor unit by manufacturer according to the model without terminal block.



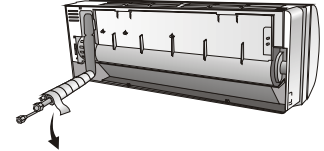
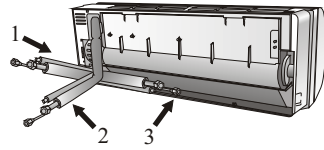
INSTALLATION MANUAL---Installation of the Indoor unit

Refrigerant piping connection

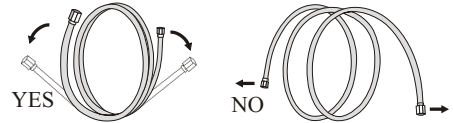
The piping can be ran in 3 directions (indicated by numbers in the pictures). When the piping is ran in direction 1 or 3, cut a notch along the groove on the side of the indoor unit with a cutter.

Run the piping in the direction of the wall hole and bind the copper pipes, the drain pipe and the power cables together with the tape with the drain pipe at the bottom, so that water can flow freely.

- Do not remove the cap from the pipe until connecting it, to avoid dampness or dirt from entering.
- If the pipe is bent or pulled too often, it will become stiff. Do not bend the pipe more than three times at one point.
- When extending the rolled pipe, straighten the pipe by unwinding it gently as shown in the picture.



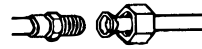
Shape the connection pipe



Extending the rolled pipe

Connections to the indoor unit

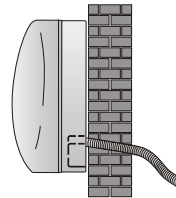
1. Remove the indoor unit pipe cap (check that there is no debris inside).
2. Insert the flare nut and create a flange at the extreme end of the connection pipe.
3. Tighten the connections by using two wrenches working in opposite directions.



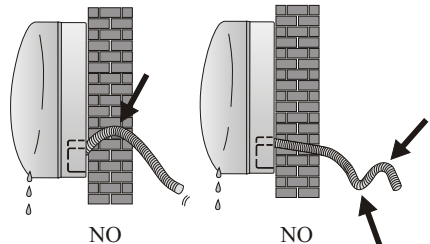
Indoor unit condensed water drainage

The indoor unit condensed water drainage is fundamental for the success of the installation.

1. Place the drain hose below the piping, taking care not to create siphons.
2. The drain hose must slant downwards to aid drainage.
3. Do not bend the drain hose or leave it protruding or twisted and do not put the end of it in water. If an extension is connected to the drain hose, ensure that it is lagged when it passes into the indoor unit.
4. If the piping is installed to the right, the pipes, power cable and drain hose must be lagged and secured onto the rear of the unit with a pipe connection.
 - A) Insert the pipe connection into the relative slot.
 - B) Press to join the pipe connection to the base.



YES



NO

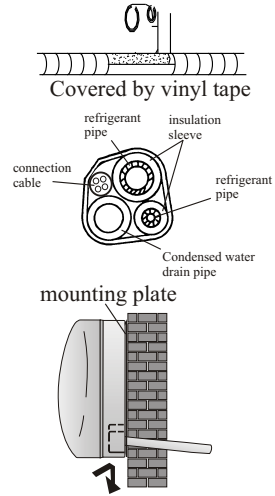
NO

INSTALLATION MANUAL---Installation of the Indoor unit

INSTALLATION OF THE INDOOR UNIT

After having connected the pipe according to the instructions, install the connection cables. Now install the drain pipe. After connection, lag the pipe, cables and drain pipe with the insulating material.

1. Arrange the pipes, cables and drain hose well.
2. Lag the pipe joints with insulating material, securing it with vinyl tape.
3. Run the bound pipe, Cables and drain pipe through the wall hole and mount the indoor unit onto the upper part of the mounting plate securely.
4. Press and push the lower part of the indoor unit tightly against the mounting plate.



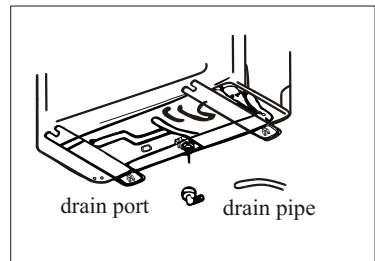
INSTALLATION MANUAL---Installation of the outdoor unit

- The outdoor unit should be installed on a solid wall and fastened securely.
- The following procedure must be observed before connecting the pipes and connecting cables: decide which is the best position on the wall and leave enough space to be able to carry out maintenance easily.
- Fasten the support to the wall using screw anchors which are particularly suited to the type of wall.
- Use a larger quantity of screw anchors than normally required for the weight they have to bear to avoid vibration during operation and remain fastened in the same position for years without the screws becoming loose.
- The unit must be installed following national regulations.

Outdoor unit condensed water drainage (only for heat pump models)

The condensed water and the ice formed in the outdoor unit during heating operation can be drained through the drain pipe.

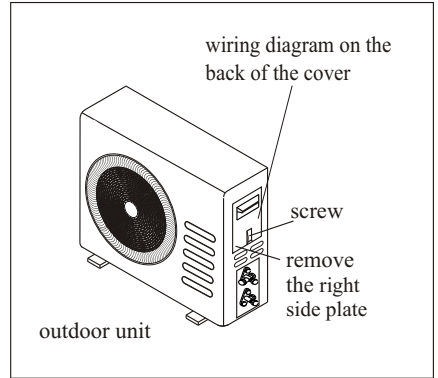
1. Fasten the drain port in the 0.08 ft hole placed in the part of the unit as shown in the picture.
2. Connect the drain port and the drain pipe.
Make sure that water is drained in a suitable place.



INSTALLATION MANUAL---Installation of the outdoor unit

ELECTRICAL CONNECTIONS

1. Remove the handle on the right side plate of outdoor unit.
2. Connect the power connection cord to the terminal board.
Wiring should fit that of indoor unit.
3. Fix the power connection cord with wire clamp.
4. Confirm if the wire has been fixed properly.
5. An efficient earth connection must be ensured.
6. Recover the handle.

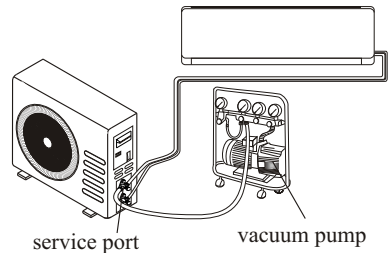
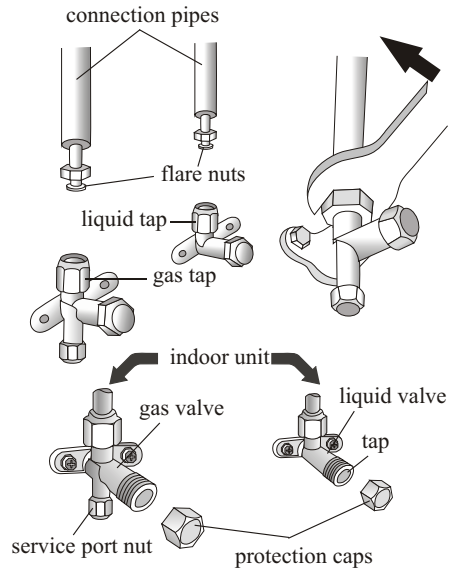


CONNECTING THE PIPES

Screw the flare nuts to the outdoor unit coupling with the same tightening procedures described for the indoor unit.

To avoid leakage, pay attention to the following points:

1. Tighten the flare nuts using two wrenches. Pay attention not to damage the pipes.
2. If the tightening torque is not sufficient, there will probably be some leakage. With excessive tightening torque there will also be some leakage, as the flange could be damaged.
3. The surest system consists in tightening the connection by using a fix wrench and a torque wrench: in this case use the table on page 24.



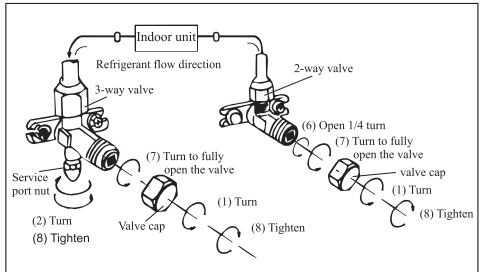
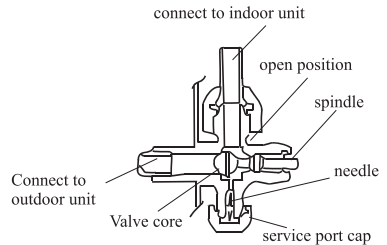
INSTALLATION MANUAL---Installation of the outdoor unit

BLEEDING

The air and humidity left inside the refrigerant circulation can cause compressor malfunction. After having connected the indoor and outdoor units, bleed the air and humidity from the refrigerant circulation using a vacuum pump.

- (1) Unscrew and remove the caps from the 2 - way and 3-way valves.
- (2) Unscrew and remove the cap from the service port.
- (3) Connect the vacuum pump hose to the service port.
- (4) Operate the vacuum pump for 10 - 15 minutes until an absolute vacuum of 0.03 ft Hg has been reached.
- (5) With the vacuum pump still in operation , close the low - pressure knob on the vacuum pump coupling. Stop the vacuum pump.
- (6) Open the 2 - way valve by 1/4 turn and then close it after 10 seconds. Check all the joints for leaks using liquid soap or an electronic leak device.
- (7) Turn the body of the 2-way and 3-way valves. Disconnect the vacuum pump hose.
- (8) Replace and tighten all the caps on the valves.

3-way valve diagram



INSTALLATION MANUAL---operation test

1. Wrap insulating covering around the joints of the indoor unit and fix it with insulating tape.
2. Fix the exceeding part of the signal cable to the piping or to the outdoor unit.
3. Fix the piping to the wall (after applying insulating tape) using clamps or insert them into plastic slots.
4. Seal the hole in the wall through which the piping is passed so that no air or water can fill.

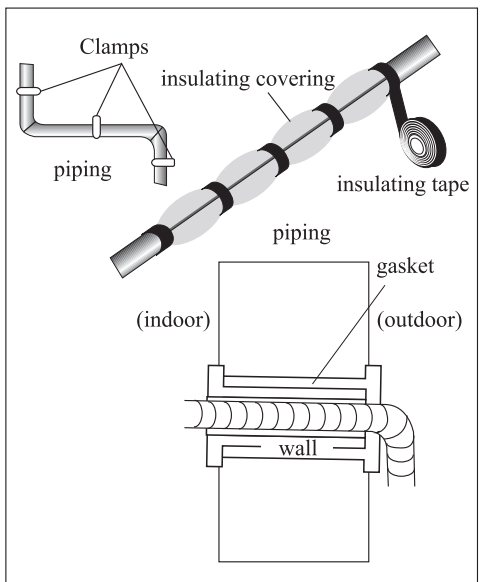
Indoor unit test

- Do the ON/OFF and FAN operate correctly?
- Does the MODE operate correctly?
- Do the set point and TIMER function properly?
- Does each lamp light correctly?
- Do the flap for air flow direction operate correctly?
- Is the condensed water drained regularly?

Outdoor unit test

- Is there any abnormal noise or vibration during operation?
- Could the noise , the air flow or the condensed water drainage disturb the neighbors?
- Is there any coolant leakage?

Note: the electronic controller allows the compressor to start only three minutes after voltage has reached the system.



INSTALLATION MANUAL---Information for the installer

INVERTER TYPE MODEL capacity (Btu/h)	9K	12K
Liquid pipe diameter	1/4 " (φ6)	1/4 " (φ6)
Gas pipe diameter	3/8 " (φ 9.52)	3/8 " (φ 9.52)
Length of pipe with standard charge	24.61 ft	24.61 ft
Maximum distance between indoor and outdoor unit	49.21 ft	49.21 ft
Additional refrigerant charge	6.17g/ft	6.17g/ft
Max. diff. in level between indoor and outdoor unit	16.40 ft	16.40 ft
Type of refrigerant(1)	R410A	R410A

(1) Refer to the data rating label stuck on the outdoor unit.

TIGHTENING TORQUE FOR PROTECTION CAPS AND FLANGE CONNECTION

PIPE	TIGHTENING TORQUE [lbf x ft]	CORRESPONDING STRESS (using a 20 cm wrench)		TIGHTENING TORQUE [lbf x ft]
1/4 " (φ6)	11.07-14.76	wrist strength	Service port nut	5.17-6.64
3/8 " (φ 9.52)	22.88-25.83	arm strength	Protection caps	18.45-22.14
1/2 " (φ 12)	25.83-33.21	arm strength		
5/8 " (φ 15.88)	55.35-59.04	arm strength		

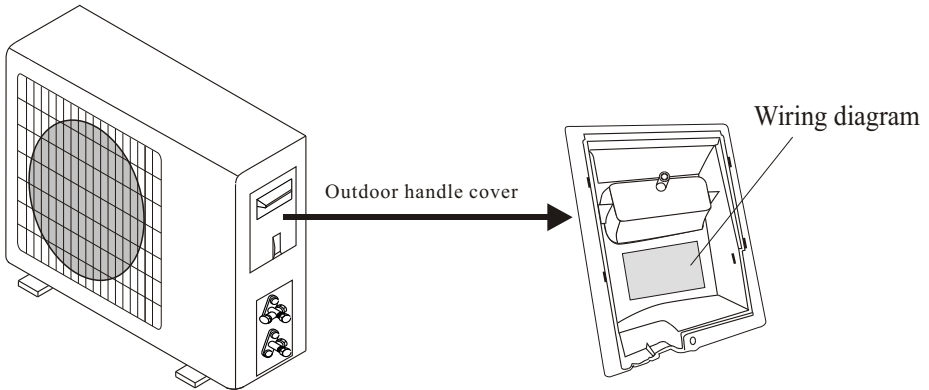
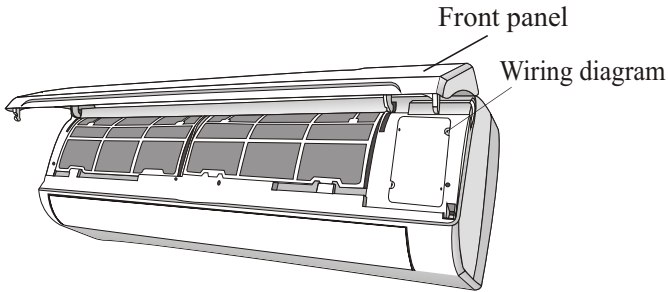
INSTALLATION MANUAL---Information for the installer

WIRING DIAGRAM

For different models, the wiring diagram may be different. Please refer to the wiring diagrams affixed to the indoor unit and outdoor unit respectively.

On the indoor unit, the wiring diagram is located under the front panel;



On the outdoor unit, the wiring diagram is located on the backside of the outdoor handle cover.



Note: For some models will have wires connected to the main PCB of the indoor unit without terminal block.

INSTALLATION MANUAL---Information for the installer

CABLE WIRES SPECIFICATION

INVERTER TYPE MODEL capacity (Btu/h)		9K-115V	12K-115V
		sectional area	
Power supply cable	N(L2)	3.0mm ² AWG12	3.0mm ² AWG12
	L(L1)	3.0mm ² AWG12	3.0mm ² AWG12
		3.0mm ² AWG12	3.0mm ² AWG12
Connection supply cable	3(L)	AWG 16	AWG 16
	2(N)		
	1(S)		
			

110V 9K 12K air conditioner indoor unit fuse parameter is 50T, 3.15A,
125V 9K , 12K air conditioner outdoor unit fuse parameter is 61T, 15A,

MAINTENANCE

Periodic maintenance is essential for keeping your air conditioner efficient.

Before carrying out any maintenance, turn the power supply "off" .

INDOOR UNIT

ANTIDUST FILTERS

1. Open the front panel (following the direction of the arrow).
2. Keeping the front panel raised with one hand, take out the air filter with the other hand.
3. Clean the filter with water; if the filter is soiled with oil, it can be washed with warm water, not exceeding 113°F (45°C).
Leave to dry in a cool and dry place.
4. Keeping the front panel raised with one hand, insert the air filter with the other hand.
5. Close front panel.

The electrostatic and the deodorant filter (if installed) cannot be washed and must be replaced with new filters once every 6 months.

CLEANING THE HEAT EXCHANGER

1. Open the front panel of the unit and remove by lifting up and unhooking it from the hinges to make the cleaning easier.
2. Clean the indoor unit using a cloth with water not higher than 104°F (40°C) and neutral soap.
Never use aggressive solvents or detergents.
3. If the battery of the outdoor unit is clogged, remove any leaves or waste by hand and remove the dust with an air jet or a bit of water.

END OF SEASON MAINTENANCE

1. Disconnect the automatic switch or the plug.
2. Clean and replace the filters.
3. On a sunny day let the air conditioner work on ventilation for several hours , so that the inside of the unit can dry completely.

REPLACING THE BATTERIES

When:

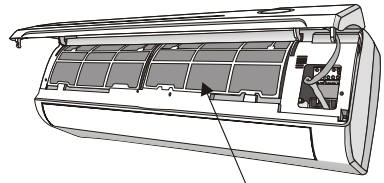
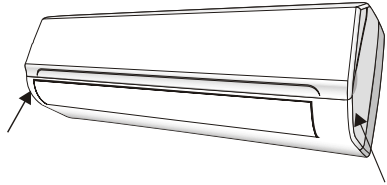
- There is no confirmation beep from the indoor unit.
- The LCD doesn't activate.

How:

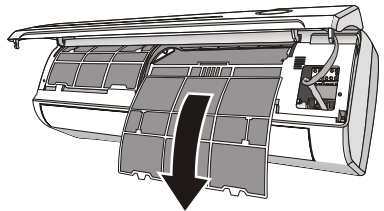
- Remove back cover plate.
- Place the new batteries respecting the symbols + and - .

N.B: Use only new batteries. Remove the batteries from the remote control when the air conditioner is not in operation.

WARNING ! Do not throw batteries into common trash, they should be disposed of in the special containers situated in collection points.



Anti-dust filter



TROUBLESHOOTING

MALFUNCTION	POSSIBLE CAUSES
The appliance does not operate	Power failure/plug pulled out.
	Damaged indoor/outdoor unit fan motor.
	Faulty compressor thermomagnetic circuit breaker.
	Faulty protective device or fuses.
	Loose connections or plug pulled out.
	It sometimes stops operating to protect the appliance.
	Voltage higher or lower than the voltage range.
	Active TIMER-ON function.
Damaged electronic control board.	
Strange odor	Dirty air filter.
Noise of running water	Back flow of liquid in the refrigerant circulation.
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the “COOLING” or “DEHUMIDIFYING/DRY” modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow, either hot or cold	Unsuitable temperature setting.
	Obstructed air conditioner intakes and outlets.
	Dirty air filter.
	Fan speed set at minimum.
	Other sources of heat in the room.
The appliance does not respond to commands	No refrigerant.
	Remote control is not close enough to indoor unit.
	The batteries of remote control need to be replaced.
The display is off	Obstacles between remote control and signal receiver in indoor unit.
	Display function inactive
Switch off the air conditioner immediately and cut off the power supply in the event of:	Power failure.
	Strange noises during operation.
	Faulty electronic control board.
	Faulty fuses or switches.
	Spraying water or objects inside the appliance.
	Overheated cables or plugs.
	Very strong smells coming from the appliance.

ERROR SIGNALS ON THE DISPLAY

In case of error, the display on the indoor unit shown the following error codes:

Display	Description of the trouble	Display	Description of the trouble
<i>E1</i>	Indoor temperature sensor fault	<i>E9</i>	Outdoor IPM module fault
<i>E2</i>	Indoor pipe temperature sensor fault	<i>EA</i>	Outdoor current detect fault
<i>E3</i>	Outdoor pipe temperature sensor fault	<i>EE</i>	Outdoor PCB EEPROM fault
<i>E4</i>	Refrigerant system leakage or fault	<i>EF</i>	Outdoor fan motor fault
<i>E5</i>	Malfunction of indoor fan motor	<i>EH</i>	Outdoor suction temperature sensor fault
<i>E7</i>	Outdoor air temperature sensor fault		
<i>E8</i>	Outdoor discharge temperature sensor fault		

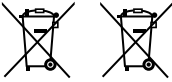
Information

Information for Users on Collection and Disposal of Old Equipment and used Batteries



[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Pb

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Contact your local hazardous waste disposal hotline.

Federal Communications Commission Interference Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, follow the attached installation instructions. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada Notice

This Class B digital apparatus complies with Canadian ICES-003.

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