



J-Smart
Artisan Essence

USER'S MANUAL

MINI SPLIT AIR CONDITIONER

THIS INSTRUCTION BOOKLET CONTAINS **IMPORTANT** SAFETY INFORMATION. PLEASE READ AND KEEP FOR FUTURE REFERENCE.

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Note: All the illustrations in this manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail. They are subject to change without notice for future improvement.

Incorrect installation or operation by not following these instructions may cause harm or damage to people, properties, etc.

The seriousness is classified by the following indications:

 WARNING

This symbol indicates the possibility of death or serious injury.

 CAUTION

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

 WARNING

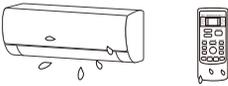
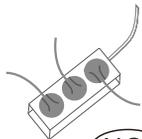
This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

(Only for the AC with CE-MARKING)

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. Children should be supervised to ensure that they do not play with the appliance.

(Except for the AC with CE-MARKING)

Safety precautions

<p>The air conditioner must be grounded. Incomplete grounding may result in electric shocks.</p>  <p>Do not connect the earth wire to the gas pipeline, water pipeline, lightning rod, or telephone earth wire.</p>	<p>Always switch off the device and cut the power supply when the unit is not in use for long time so as to ensure safety.</p> 	<p>Take care not let the remote control and the indoor unit watered or being too wet.</p>  <p>NO!</p> <p>Otherwise, it may cause short circuit.</p>
<p>If the power supply cable is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.</p> 	<p>Don't cut off the main power switch or use wet hands during operation.</p>  <p>NO!</p> <p>It may cause electric shock.</p>	<p>Don't share the socket with other electrical appliance.</p>  <p>NO!</p> <p>Otherwise, it may cause electric shock even fire and explosion.</p>
<p>Always switch off the device and cut the power supply before performing any maintenance or cleaning.</p>  <p>Otherwise, it may cause electric shock or damage.</p>	<p>Don't pull the power cable .</p>  <p>NO!</p> <p>Damage caused by pulling on the power cord can result in severe electric shock.</p>	<p>An earth leakage breaker with rated capacity must be installed to avoid possible electric shock.</p>

Safety Precautions

This product contains fluorinated greenhouse gases.

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to [2088]. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [2088] times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

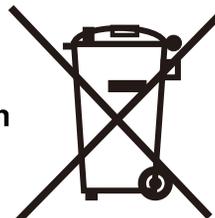
The specification of the fuse are printed on the circuit board, such as: 3.15A/250V AC, etc.

WEEE Warning

**Meaning of crossed out wheeled dustbin:
Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.**

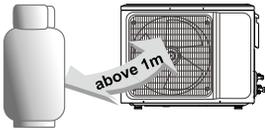
Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.



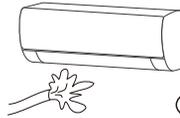
Safety Precautions

Don't install air conditioner in a place where there is flammable gas or liquid. The distance between them should be above 3.3 ft.



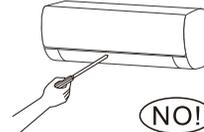
It may cause fire even explosion.

Don't use liquid or corrosive cleaning agent to wipe the air conditioner and sprinkle water or other liquid either.



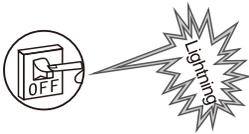
Doing this may cause electric shock or damage to the unit.

Don't attempt to repair the air conditioner by yourself.



Incorrect repairs may cause fire or explosion. Contact a qualified service technician for all service requirement.

Don't use air conditioner in lightning storm weather.



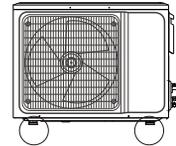
Power supply should be cut in time to prevent the occurrence of danger.

Don't put hands or any objects into the air inlets or outlets.



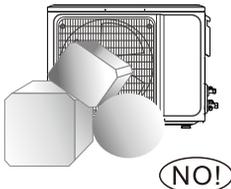
This may cause personal injury or damage to the unit.

Please note whether the installed stand is firm enough or not.



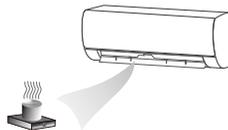
If it is damaged, it may lead to the fall of the unit and cause the injury.

Don't block air inlet or air outlet.



Otherwise, the cooling or heating capacity will be weakened, or even the system will stop working.

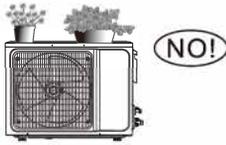
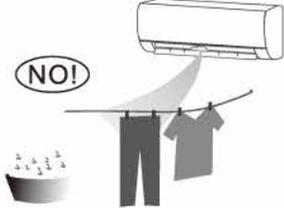
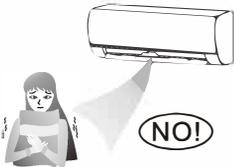
Don't let the air conditioner blow against the heater appliance.



Otherwise it will lead to incomplete combustion, thus causing poisoning.

The appliance shall be installed in accordance with national wiring regulations.

Safety Precautio

 CAUTION		
<p>Don't open the windows and doors for long time when the air conditioner is running.</p>  <p>Otherwise, the cooling or heating capacity will be weakened.</p>	<p>Don't stand on the top of the outdoor unit or place heavy things on it.</p>  <p>This cloud cause personal injuries or damage the unit.</p>	<p>Don't use the air conditioner for other purposes, such as drying clothes, preserving foods, etc.</p> 
<p>Don't apply the cold air to the body for a long time.</p>  <p>It will deteriorate your physical conditions and cause health problems.</p>	<p>Set the suitable temperature.</p>  <p>It is recommended that the temperature difference between indoor and outdoor temperature should not be too large.</p> <p>Appropriate adjustments of the setting temperature can prevent the waste of electricity.</p>	<p>If your air conditioner is not fitted with a supply cord and a plug, an all-pole switch must be installed in the fixed wiring and the distance between contacts should be no less than 3.0 mm.</p>
<p>If your air conditioner is permanently connected to the fixed wiring, a residual current device (RCD) having rated residual operating current not exceeding 30 mA should be installed in the fixed wiring.</p>		
<p>The power supply circuit should have leakage protector and air switch of which the capacity should be more than 1.5 times of the maximum current.</p>		
<p>Regarding the installation of the air conditioners, please refer to the below paragraphs in this manual.</p>		

Notices for usage

The conditions of unit can't normally run

* Within the temperature range provided in following table, the air conditioner may stop running and other anomalies may arise.

Cooling	Outdoor	> 109. 4°F (Apply to T1)
		> 125. 6°F (Apply to T3)
	Indoor	< 64.4°F
Heating	Outdoor	> 75.2°F
		< 19.4°F
	Indoor	> 80.6°F

- * When the temperature is too high, the air conditioner may activate the automatic protection device, so that the air conditioner could be shut down.
- * When the temperature is too low, the heat exchanger of the air conditioner may freeze, leading to water leakage or other malfunction.
- * In long-term cooling or dehumidification with a relative humidity of above 80% (doors and windows are open), there may be water condensates or dripping near the air outlet.
- * T1 and T3 refer to ISO 5151.

Notes for heating

- * The fan of the indoor unit will not work immediately when the heating is started to avoid blowing out cool air.
- * When it is cold and wet outside, the outdoor unit will develop frost over the heat exchanger which will compromise the heating capacity. This is when the air conditioner will start defrost.
- * During defrost, the air conditioner will stop heating for about 5-12 minutes.
- * Vapor may come out from the outdoor unit during defrost. This is not a malfunction, but a result of fast defrost.
- * Heating will resume after defrost is complete.

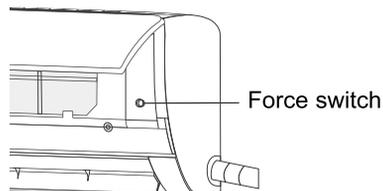
Notes for turning off

- * When the air conditioner is turned off, the main controller will automatically decide whether to stop immediately or after running for dozens of seconds with lower frequency and lower air speed.

Notices for usage

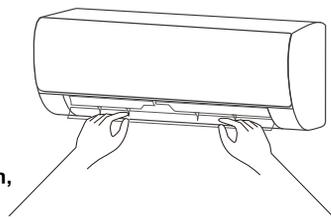
Emergency operation

- * If the remote controller is lost or broken, use force switch button to operate the air conditioner.
- * If this button is pushed with the unit OFF, the air conditioner will operate in Auto mode.
- * If this button is pushed with the unit ON, the air conditioner will stop running.



Airflow direction adjustment

1. Use up-down swing and left-right swing buttons on the remote controller to adjust the airflow direction. Refer to the operation manual of the remote controller for detail.
2. For models without left-right swing function, the air vent has to be moved manually.



Note: Move the air vents before the unit is in operation, or your finger might be injured. Never place your hand into the air inlet or outlet when the air conditioner is in operation.

ATTENTION

If the equipment emissions cannot meet the technical requirement of IEC 61000-3-3, following attention should be Noted.

Attention: This appliance can be connected only to a supply with system impedance no more than Z_{max} . If necessary, please consult your supply authority for system impedance information.

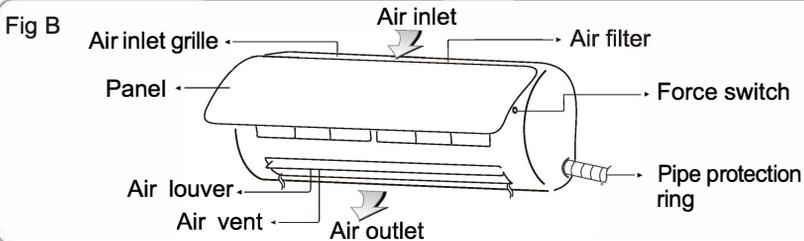
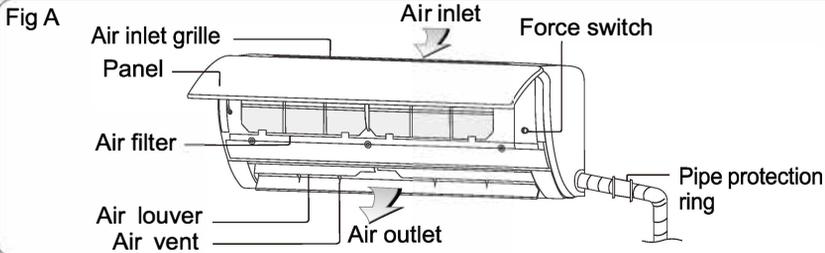
Product Type	Z_{max}	Product Type	Z_{max}
ASTW-H30Q4/#-IQ	0.021	ASW-H28G5A4/#R1-C5	0.296
ASW-H28G5B4/#R1-C5	0.116	ASW-H18E1B4/#R1-C	0.296
ASW-H18E1B4/#R1-C5S	0.296		
#=LK700,LF,LH,LI,LM,LN,LR,LU,LS,LD,LP, LQ,LB,LO,LC,LE,LL,LV800,LT,LW,LZ ,ULK700,ULF,ULH,ULM,ULN,ULI,ULS,ULU,ULD,ULP,ULR, ULQ,ULB,ULO,ULC,ULE,ULL,ULV800,ULT,ULW,ULZ,QLK700,QLF,QLH,QLM,QLN,QLI,QLS,QLU,QLD,QLP,QLR,QLQ,QLB,QLO,QLC,QLE,QLL,QLV800,QLT,QLW,QLZ,DA,DB,DC,DE,DF,DH,DI			

Product Type	Z_{max}	Product Type	Z_{max}
ASW-H28G6A4/*R1-C5	0.103		
*=FS,FK			

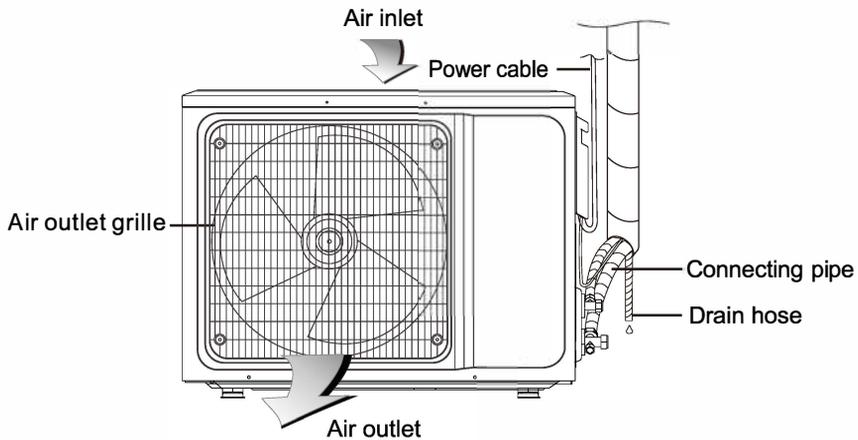
Names of each part

Indoor unit

There are two kinds about Indoor unit, Fig A ,Fig B,the actual shape shall prevail.



Outdoor unit



Note: All the illustrations in this manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail. They are subject to change without notice for future improvement.

Plug, WIFI function, Negative-ion function, and Vertical and horizontal swing function both are optional,the actual unit shall prevail.

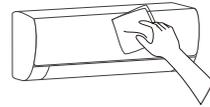
Clean and care

WARNING

- Before the cleaning of the air conditioner, it must be shut down and the electricity must be cut off for more than 5 minutes, otherwise there might be the risk of electric shock.
- Do not wet the air conditioner, which can cause an electric shock. Make sure not to rinse the air conditioner with water under any circumstances.
- Volatile liquids such as thinner or gasoline will damage the air conditioner housing, therefore please clean the housing of air conditioner only with soft dry cloth and damp cloth moistened with neutral detergent.
- In the course of the usage, pay attention to cleaning the filter regularly, to prevent the accumulation of dust which may affect the air conditioner performance. If the service environment of the air conditioner is dusty, correspondingly increase the number of times of cleaning. After removing the filter, do not touch the fin part of the indoor unit with the finger, so as to avoid scratching it.

Clean the panel

When the panel of the indoor unit is contaminated, clean it gently with a wrung towel using tepid water below 113°F, and do not remove the panel while cleaning.



Clean the air filter

■ Remove the air filter

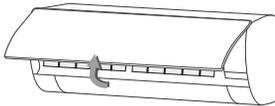


Fig A

1. Use both hands to open the panel for an angle from both ends of the panel in accordance with the direction of the arrow.
2. Release the air filter from the slot and remove it.

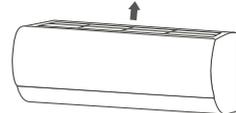


Fig B

The air filter is located above the fuselage. Take it out facing upward.

■ Clean the Air Filter

Use a vacuum cleaner or water to rinse the filter, and if the filter is very dirty (for example, with greasy dirt), clean it with warm water (below 113°F) with mild detergent, and then put the filter in the shade to dry in the air.



Clean and care

Clean the air filter

■ Mount the Filter

Reinstall the dried filter in reverse order of removal, then cover and lock the panel.

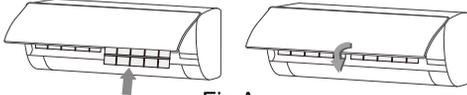


Fig A

Reinstall the dried filter in reverse order of removal.



Fig B

Check before using

1. Check whether all the air inlets and outlets of the units are unblocked.
2. Check whether there is blocking in the water outlet of the drain pipe, and immediately clean it up if any.
3. Check the ground wire is reliably grounded.
4. Check whether the remote control batteries are installed, and whether the power is sufficient.
5. Check whether there is damage in the mounting bracket of the outdoor unit, and if any, please contact our customer service.

Maintain after using

1. Cut off the power source of the air conditioner, turn off the circuit breaker and remove the batteries from the remote control.
2. Clean the filter and the unit body.
3. Remove the dust and debris from the outdoor unit.
4. Check whether there is damage in the mounting bracket of the outdoor unit, and if any, please contact our customer service.

Troubleshooting

⚠ CAUTION

* Do not repair the air conditioner by yourself as wrong maintenance may cause electric shock or fire, please contact the authorized service center and let the professionals conduct the maintenance, and check the following items prior to contacting for maintenance, which can save your time and money.

Troubleshooting

Phenomenon

Troubleshooting

Air conditioner can not operate at all.

- Has the power been shut down?
- Is the wiring loose?
- Is voltage too high or too low ?(measured by professionals)
- Does it reach the set time for start up?
- Does the circuit protection device trip?

Remote controller is not available.

- Is the remote controller out of effective distance to the indoor unit?
- Are there any obstructions between the controller and the signal receptor?
- Is the battery exhausted?

Cooling (Heating) efficiency is not good.

- Is the setting temperature suitable?
- Are air filter dirty?
- Is the air inlet or outlet obstructed?
- Is indoor fan speed set at low speed?
- Is there any heat source in your room?

Indoor unit does not operate immediately when the air conditioner is restarted.

If the air conditioner is turned on immediately after it is turned off, the protective delay switch will delay the operation for 3 to 5 minutes.

There is unusual smell blowing from the outlet after operation is started.

The air conditioner itself does not have undesirable odor. If there is odor, it may be due to accumulation of the odor in the environment. Please clean the air filter or activate the cleaning function.

There is sound of running water during the running of air conditioner.

Sometimes the "hissing" sound of running water can be heard. This is the sound of the flow of the refrigerant, not a malfunction.

A slight "click" sound is heard when turning it on or off.

Due to temperature changes, panel and other parts will swell, causing the sound of friction. This is normal, not a fault.

During the cooling operation, the indoor unit outlet sometimes will blow out mist.

This is because the indoor air is cooled rapidly. After it runs for some time, the indoor temperature and humidity will be reduced and the mist will disappear.



Immediately stop all operations and cut off the power supply , contact our Service center in following situations.

- ▲ Shriill sound is heard or Unpleasant odor is emitted during the operation.
- ▲ There is an abnormal heat in power supply cord and power plug.
- ▲ Accidentally pour impurities or water into the machine or the remote control.
- ▲ Air switch or protection switch often breaks.

Notices for installation

ⓘ Important Notices

- Before installing, please contact with local authorized maintenance center, if unit is not installed by the authorized maintenance center, the malfunction may not be solved, due to discommodious contact.
- The air conditioner must be installed by professionals according to the national wiring rules and this manual.
- To move and install air conditioner to another place, please contact our service center. _____

Requirements For Installation Position

- Avoid places of inflammable or explosive gas leakage or where there are strongly aggressive gases.
- Avoid places subject to strong artificial electric/magnetic fields.
- Avoid places subject to noise and resonance.
- Avoid severe natural conditions (e.g. heavy lampblack, strong sandy wind, direct sunshine or high temperature heat sources).
- Avoid places within the reach of children.
- Shorten the connection between the indoor and outdoor units.
- Select where it is easy to perform service and repair and where the ventilation is good.
- The outdoor unit shall not be installed in any way that could occupy an aisle, stairway, exit, fire escape, catwalk or any other public area.
- The outdoor unit shall be installed as far as possible from the doors and windows of the neighbors as well as the green plants.

Requirements of the mounting structure

- The mounting rack must meet the relevant national or industrial standards in terms of strength with welding and connection areas rustproofed.
- The mounting rack and its load carry surface shall be able to withstand 4 times or above the weight of the unit, or 440 lbs, whichever is heavier.
- The mounting rack of the outdoor unit shall be fastened with expansion bolt.
- Ensure the secure installation regardless of what type of wall on which it is installed, to prevent potential dropping that could hurt people.

Notices for installation

Electrical Safety Requirements

- Be sure to use the rated voltage and air conditioners dedicated circuit for the power supply, and the power cable diameter must meet the national requirements.
- When the maximum current of air conditioner is $\geq 16A$, it must use the air switch or leakage protection switch equipped with protection devices.
- The normal operating range is 90%-110% of the local rated voltage.
- The minimum clearance between the air conditioner and the combustibles is 5 ft.
- The Interconnection cord connects the indoor and outdoor units. You must first choose the right cable size before preparing it for connection.
- Cable Types:
Outdoor Power Cable: H07RN-F or H05RN-F;
Interconnection cord: H07RN-F or H05RN-F;
- Minimum Cross-Sectional Area of Power Cable and interconnection cord

North America

Appliance Amps(A)	AWG
10	18
13	16
18	14
25	12
30	10
40	8

Other Regions

Rated Current of Appliance(A)	Nominal Cross-Sectional Area(mm ²)
>3 and ≤ 6	0.75
>6 and ≤ 10	1
>10 and ≤ 16	1.5
>16 and ≤ 25	2.5
>25 and ≤ 32	4
>32 and ≤ 40	6

- The size of the interconnection cord, power cable, fuse, and switch needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on the side panel of the unit. Refer to this nameplate to choose the right cable, fuse, or switch.
- Note: Please refer to the detailed wiring diagram on the unit you purchased for the number of cable cores.

Notices for installation

Requirements for operations at raised height

- When carrying out installation at 6.5ft or higher above the base level, safety belts must be worn and ropes of sufficient strength be securely fastened to the outdoor unit, to prevent falling that could cause personal injury or death as well as property loss.

Grounding Requirements

- The air conditioner is the type I electrical appliance and must ensure a reliable grounding.
- Do not connect the grounding wire to a gas pipe, water pipe, lightning rod, telephone line, or a circuit poorly grounded to the earth.
- The grounding wire is specially designed and shall not be used for other purpose, nor shall it be fastened with a common tapping screw.

Others

- The connection method of the air conditioner and the power cable and the interconnection method of each independent element shall be subject to the wiring diagram affixed to the machine.
- The model and rating value of the fuse shall be subject to the silkscreen on corresponding controller or fuse sleeve.

Packing list

Packing list of the indoor unit

Name	Quantity	Unit
Indoor Unit	1	Set
Remote Controller	1	PC
Batteries (7#)	2	PC
Instructions	1	Set
Drain pipe	1	PC

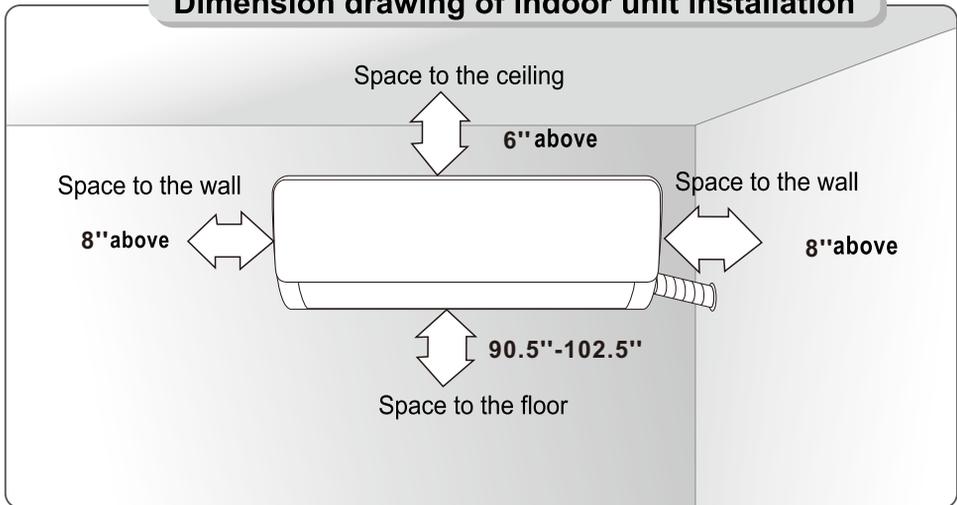
Packing list of the outdoor unit

Name	Quantity	Unit
Outdoor Unit	1	Set
Connecting pipe	2	PC
Plastic Strap	1	ROLL
Pipe Protection Ring	1	PC
Luting (putty)	1	PACKET

NOTE: Interconnection cord and sound deadening pads are optional accessories.
All accessories shall be subject to actual packaging material, and if there is any difference, please understand.

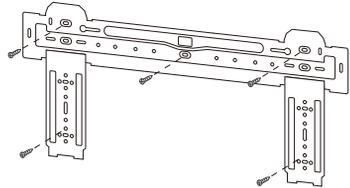
Installation for indoor unit

Dimension drawing of indoor unit installation



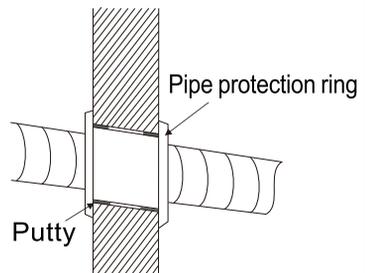
Mounting plate

1. The wall for installation of the indoor unit shall be hard and firm, so as to prevent vibration.
2. Use the "+" type screw to fasten the peg board, horizontally mount the peg board on the wall, and ensure the lateral horizontal and longitudinal vertical.
3. Pull the peg board by hand after the installation, to confirm whether it is solid.



Wall-through Hole

1. Make a hole with an electric hammer or a water drill at the predetermined position on the wall for piping, which shall slant outwardly by 5°-10°.
2. To protect the piping and the cables from being damaged running through the wall, and from the rodents that may inhabit in the hollow wall, a pipe protecting ring shall be installed and sealed with putty.



**Note: Usually, the wall hole is $\Phi 2.4'' \sim \Phi 3.2''$.
Avoid pre-buried power wire and hard wall when making the hole.**

Installation for indoor unit

Route of Pipeline

- Depending on the position of the unit, the piping may be routed sideway from the left or the right (Fig 1), or vertically from the back(Fig 2)(depending on the pipe length of the indoor unit). In the case of sideway routing, cut off the outlet cutting stock of the opposite side.

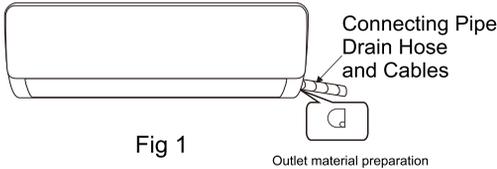


Fig 1

Outlet material preparation

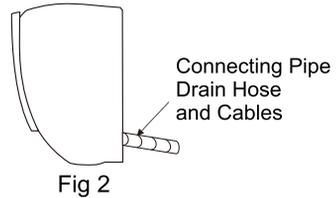


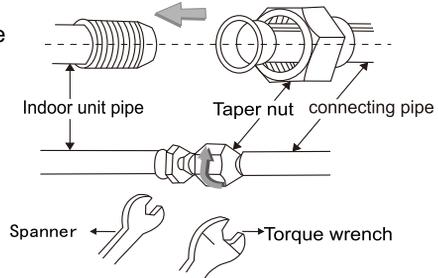
Fig 2

Install the connection pipe

- Remove the mountings and pull the indoor unit pipe out of the housing.
- Connect the connecting pipe to the indoor unit:
Aim at the pipe center, tighten the Taper nut with fingers, and then tighten the Taper nut with a torque wrench, and the direction is shown in diagram on the right. The torque used is shown in the following table.

Tightening torque table

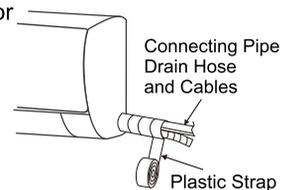
The size of pipe(mm)	Torque(N · m)
Φ6/Φ6.35	15~25
Φ9/Φ9.52	35~40
Φ12/Φ12.7	45~60
Φ15.88	73~78
Φ19.05	75~80



IMPORTANT: For units with quick connectors, please refer to the booklet of "Install the connection pipe(the unit with the quick connectors)".

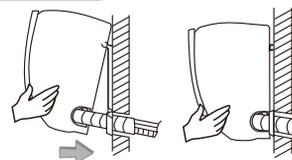
Wrap the Piping

- Use the insulation sleeve to wrap the joint part of the indoor unit and the connection pipe, and then use insulating material to pack and seal insulation pipe, to prevent generation of condensate water on the joint part.
- Connect the water outlet with drain pipes, and make the connection pipe, cables, and the drain hose straight.
- Use plastic cable ties to wrap the connecting pipes, cables and drain hose. Run the pipe sloping downward.



Fixing the Indoor Unit

- Hang the indoor unit on the peg board, and move the unit from left to right to ensure that the hook is properly positioned in the peg board.
- Push toward the lower left side and the upper right side of the unit toward the peg board, until the hook is embedded in the slot and makes a "click" sound.

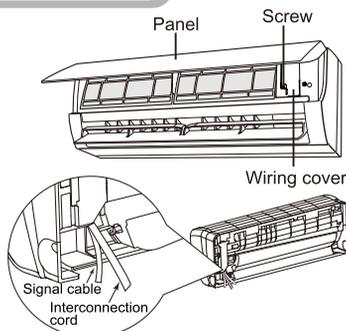


Installation for Indoor Unit

Interconnection cord installation

● Connect interconnection cord of indoor unit

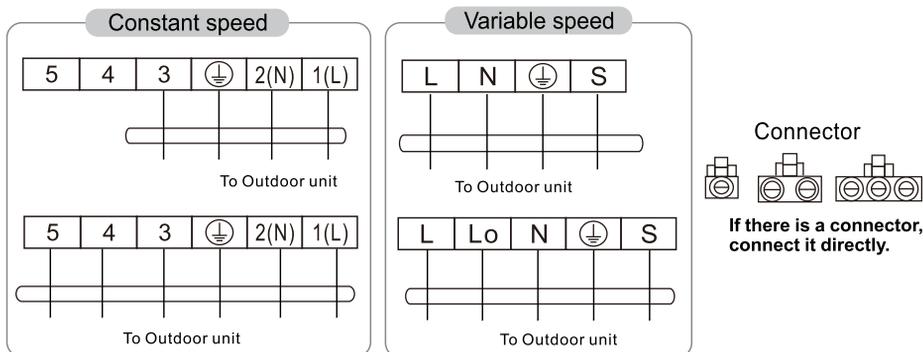
1. Open the panel, remove the screw on the wiring cover and then take down the cover.
2. Make the interconnection cord go through the cable-cross hole at the back of indoor unit and then pull it out from the front side.
(Some models do not have a signal cable.)



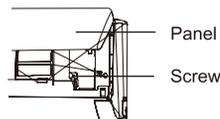
3. Remove the wire clip; connect the interconnection cord to the wiring terminal according to the wiring diagram; tighten the screw and then fix the interconnection cord with wire clip.

NOTE:

- ※ This manual usually includes the wiring mode for the different kind of air conditioner. We cannot exclude the possibility that some special type of wiring diagrams are not included.
- ※ The diagram are for reference only. If the entity is different from this wiring diagram, please refer to the detailed wiring diagram adhered on the unit which you purchased.



4. Put wiring cover back and then tighten the screw.
5. Close the panel.

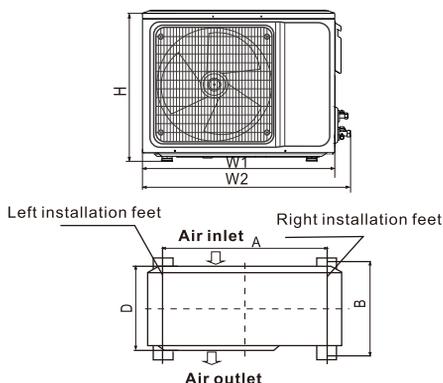
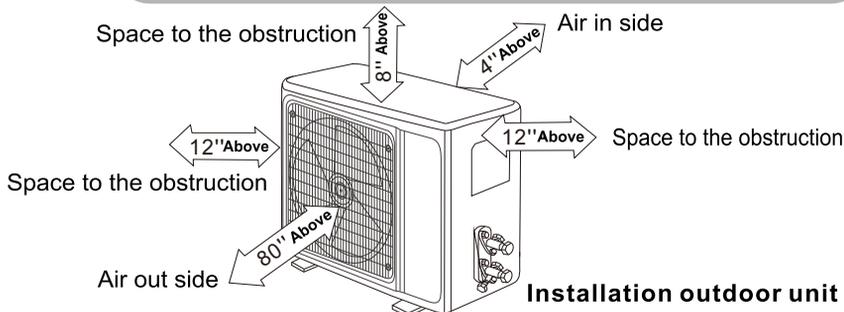


● After installation check

1. The screws whether have been fixed effectively, and there is no risk of loosening.
2. Connector of display board whether put in the right place and do not touch the terminal board.
3. Control box cover whether cover tightly.

Installation for outdoor unit

Dimension drawing of outdoor unit installation



Installation outdoor unit bolt

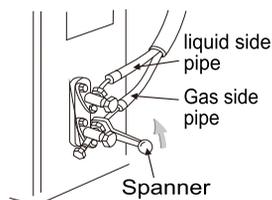
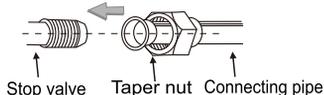
Outdoor Unit Size of Shape W1(W2)*H*D (inch)	A (inch)	B (inch)
26.2"(28") x 16.5" x 11"	17"	11"
23.5"(25.4") x 19" x 10.2"	15.7"	11.4"
26"(28") x 19.7" x 9.4"	19.7"	10.2"
27.5"(29.3") x 19.7" x 10"	18"	10.2"
28.7"(30.7") x 21.5" x 11.2"	21.3"	11"
30"(31.8") x 21.5" x 11.2"	21.3"	11"
31.1"(33") x 21.7" x 11.4"	21.5"	11.8"
31.5"(33.8") x 21.5" x 12.4"	21.5"	12.4"
31.5"(33.5") x 23.2"(27.2") x 12.2"	21.3"	12.8"
32.5"(34.6") x 25.8" x 12.2"	21.3"	13.2"
35.4"(37.4") x 27.5" x 13.8"	24.8"	13.8"
35.4"(37.4") x 31.3" x 13"	21"	13.8"
38.2"(41.1") x 31.6" x 15.6"	26.5"	16.1"

Install the connection pipe

Connect the Outdoor Unit with Connecting Pipe:
Aim the counter-bore of the connecting pipe at the stop valve, and tighten the Taper nut with fingers.

Then tighten the Taper nut with a torque wrench.

- ★ When the length of the connecting pipe is changed, extra amount of refrigerant need to be added or reduced, so that the operation and performance of the air conditioner will not be compromised.



Length of connection pipe	Added or reduced refrigerant		Amount of refrigerant for the unit
	CC ≤ 12000Btu	CC ≥ 18000Btu	
< 9.8 Ft	CC ≤ 12000Btu	reduce 20g/m	≤ 2.2 lbs
	CC ≥ 18000Btu	reduce 50g/m	≤ 4.4 lbs
9.8 Ft-16.4 Ft	Not needed		
16.4 Ft-49.2 Ft	CC ≤ 12000Btu	add 20g/m	≤ 2.2 lbs
	CC ≥ 18000Btu	add 30g/m	≤ 4.4 lbs

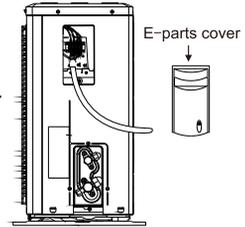
Note: This table is for reference only.

IMPORTANT: For units with quick connectors, please refer to the booklet of "Install the connection pipe(the unit with the quick connectors)".

Installation for outdoor unit

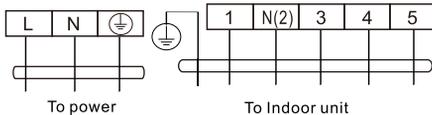
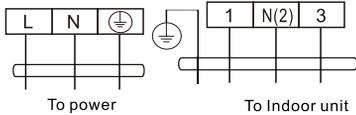
Wiring Connection

1. Loosen the screws and remove E-parts cover from the unit.
2. Connect the cables respectively to the corresponding terminals of the terminal board of the outdoor unit (see the wiring diagram), and if there are signals connected to the plug, just conduct butt joint.
3. Ground wire: Remove the grounding screw out of the electric bracket, cover the grounding wire end onto the grounding screw and screw it into the grounding hole.
4. Fix the cable reliably with fasteners (Pressing board).
5. Put the E-parts cover back in its original place and fasten it with screws.

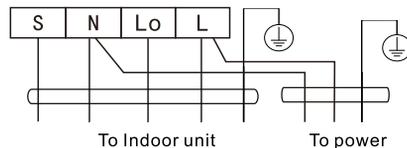
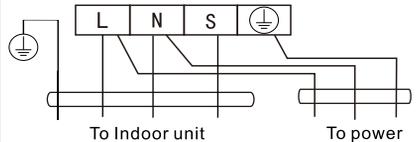


Wiring diagram

Constant speed



Variable speed



Connector



If there is a connector, connect it directly.

NOTE:

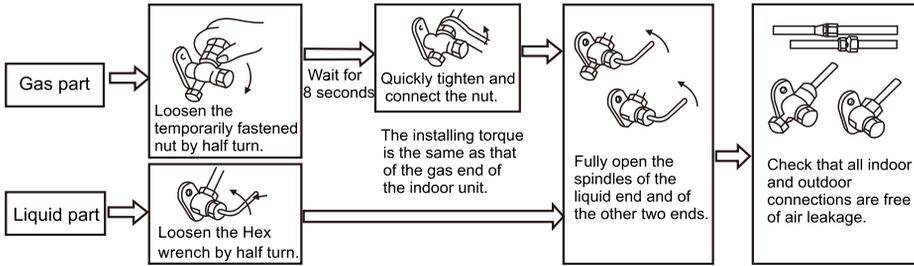
- ※ This manual usually includes the wiring mode for the different kind of air conditioner. We cannot exclude the possibility that some special type of wiring diagrams are not included .
- ※ The diagram are for reference only. If the entity is different from this wiring diagram, please refer to the detailed wiring diagram adhered on the unit which you purchased.

Installation for outdoor unit

Expelling the air

★Outdoor unit refrigerant discharging method

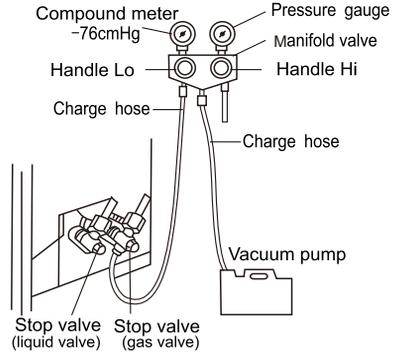
After the pipe side connection is complete, proceed as follows.



★Vacuum Pumping Method (R410A refrigerant evacuation must use the vacuum pumping method)

Before working on the air conditioner, remove the cover of the stop valve(gas and liquid valves)and be sure to re-tighten them afterwards.(to prevent the potential air leakage)

1. To prevent air leakage and spilling tighten all connecting nut of all flare tubes.
2. Connect the stop valve, charge hose, manifold valve, and vacuum pump.
3. Fully open the handle Lo of the manifold valve and apply vacuum for at least 15 minutes and check that the compound vacuum gauge reads $-0.1\text{MPa}(-76\text{cmHg})$.
4. After applying vacuum, fully open the stop valve with a hex wrench.
5. Check that both indoor and outdoor connections are free of air leakage.



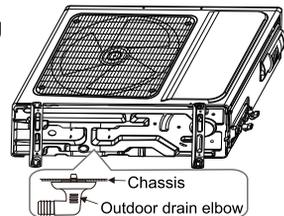
IMPORTANT: The unit with the quick connectors does not require vacuum pumping.

Outdoor condensation drainage(Heat pump type only)

When the unit is heating, the condensing water and defrosting water can be out reliably through the drain hose.

Installation:

Install the outdoor drain elbow in $\Phi 25$ hole on the base plate, and joint the drain hose to the elbow, so that the waste water formed in the outdoor unit can be drained out to a proper plate.



Check after installation and test operation

Check after installation

★ Electrical Safety Check

1. If the supply voltage is as required.
2. If there is any faulty or miss connection in each of the power, signal and grounding wires.
3. If the grounding wire of the air conditioner is securely grounded.

★ Installation Safety Check

1. If the installation is secure.
2. If the water drain is smooth.
3. If the wiring and piping are correctly installed.
4. Check that no foreign matter or tools are left inside the unit.

★ Leak test of the refrigerant

Depending on the installation method, the following methods may be used to check for suspect leak, on areas such as the four connections of the outdoor unit and the cores of the cut-off valves and t-valves:

1. Bubble method: Apply of spray a uniform layer of soap water over the suspected leak spot and observe carefully for bubble.
2. Instrument method: Checking for leak by pointing the probe of the leak detector according to the instruction to the suspect points of leak.

Test Operation

Test Operation Preparation:

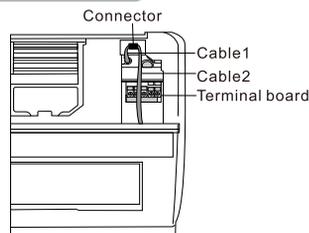
- ※Verify that all piping and connection cables are well connected.
- ※Confirm that the values at the gas side and the liquid-side are fully open.
- ※Connect the power cable to an independent power socket.
- ※Install batteries in remote control.

Test Operation Method:

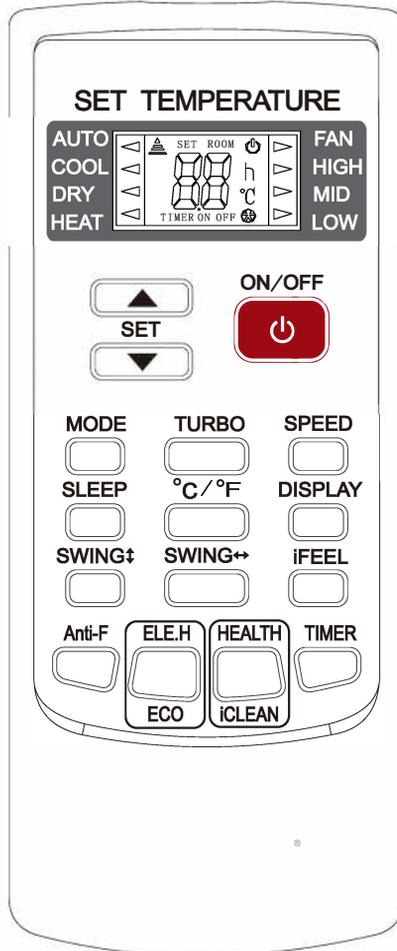
1. Turn on the power and push the ON/OFF switch button of the remote controller to start the air conditioner.
2. Select COOL, HEAT (not available on cool-only models), SWING and other operation modes with the remote controller and see if the operation is ok.

Specific caution

1. Open front panel of the indoor Unit.
2. The connector(as Fig) can not touch the terminal board, and is positioned as shown in Fig.



AIR-CONDITIONER REMOTE CONTROLLER INSTRUCTIONS



- Carefully read these “instructions” for safe and correct use of the air-conditioner.
- Carefully keep the “instructions” manual as it can be referred to at any time.

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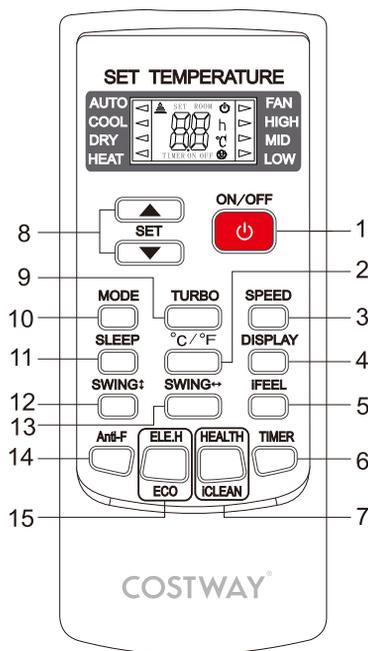
Precautions

- Before first time use of the remote controller, install the batteries and ensure that the “+” and “-” poles are correctly positioned.
- Ensure the remote controller is pointed to the signal receiving window, and that there is no obstruction in between and the distance is 26.2 Ft at the maximum.
- Do not let the remote controller drop or fling it at will. Do not let any liquid in the remote controller. Do not expose the remote controller directly to the sunlight or excessive heat.
- If the remote controller does not work normally, remove the batteries for 30 seconds before reinstalling them. If that doesn't work, replace the batteries.
- When replacing the batteries, do not mix the new batteries with old ones or mix batteries of different types, which could cause failure of the remote controller.
- If the remote controller is not to be used for a long period of time, remove the batteries first, lest the leakage from them may damage the remote controller.
- Properly dispose the discarded batteries.

Note:

1. **This is a universal remote controller which provides all the function of buttons. Please understand that some of the buttons may not function, depending on the specific air conditioner you have purchased. (If a specific function is not available on the air conditioner, pressing the corresponding button will simply have no respond.)**
2. **HEAT and ELE.H functions are not available for cool only models, thus these two buttons do not work correspondingly.**

Buttons description



Note:

The remote control displays all symbols when powered on, and displays only the symbols corresponding to the current operation the rest of the time.

1. ON/OFF

- * Press this button to turn on/off the unit.
- * This will clear the existing timer and SLEEP settings.

2. °C/°F

- * Press this button to set the temperature display to Fahrenheit, which is displayed by default in Celsius. The “C” will not be displayed on the LCD.
- * Press this button again to restore the temperature display to Celsius.

Note: Temperature display in Fahrenheit is not available for some models. When temperature is displayed in Fahrenheit on the remote controller, it might be in Celsius on the unit, the function and operation of which will not be affected.

3. SPEED

- * Press this button, you can select the fan speed as follows:

→ Low → Mid → High → Auto

Note: AUTO air speed is not available in FAN mode.

Buttons description

4. DISPLAY

- * Press this button to turn on/off the display. This is for the convenience of users who are unconformable sleeping with the backlight on.

5. iFEEL

- * Press this button to set the temperature display on the remote controller to ambient temperature and press this button again to set it to preset temperature.

6. TIMER

- * With the unit ON, press this button to set OFF timer or with it OFF to set ON timer.
- * Press this button once, a "ON(OFF)" will flash. Press "▲" or "▼" to set the number of hours in which the unit will be turned ON/OFF, with an interval of 0.5 hour if less than 10 hours, or 1 hour if longer than 10 hours, and a range of 0.5-24 hours.
- * Press it again to confirm the setting, the "ON (OFF)" will stop flashing.
- * If the timer button is not pressed longer than 10 seconds after the "ON (OFF)" start flashing, the timer setting will be exited.
- * If a timer setting is confirmed, pressing this button again will cancel it.

Note: When a ON timer is set, all function buttons (except SLEEP, DISPLAY and iFEEL can't be set) are valid and when the ON time set is up, the unit will operate as preset.

7.  This button has two functions.

a. HEALTH

- * Press this button with the unit ON to activate health related functions, such as negative ion, electrostatic precipitation, PM2.5 removal, etc, depending on the actual configuration of each model.
- * Press this button again to deactivate the HEALTH function.

b. iCLEAN

- * Press this button with the unit OFF, the remote controller will display "CL" and the unit will automatically clean dust off the evaporator and dry it, to increase the cooling and heating efficiency.

Buttons description

- * The iCLEAN function runs for approximately 30 minutes, during which if the unit is turned on with the remote controller or this button is pressed again, the iCLEAN will be deactivated.

8. ▲ or ▼

- * Each time the “▲” is pressed, the temperature setting will increase by 1°C and each time the “▼” is pressed, it will decrease by 1°C.
- * a.If the type of controller remote is YKR-H/101E or YKR-H/102E , setting temperature range is 16°C~32°C(60°F~90°F).
- b.If the type of controller remote is YKR-H/132E, setting temperature range is 20°C~28°C (68°F~82°F).
- c.Some area don't have the YKR-H/132E. Local regulation and actual object shall prevail.

Note: The temperature cannot be set in AUTO or FAN mode, thus these two buttons are not functional.

9. TURBO

- * Press this button only in COOL or HEAT mode to set TURBO on or off to speed up the cooling or heating.
- * When TURBO is on, the air speed is HIGH.
- * When TURBO is off, the air speed will restore to previous status.

10. MODE

- * Press this button, you can select the running mode as follows:

□ → AUTO → COOL → DRY → HEAT → FAN □

Note: HEAT mode is not available for cool only units.

11. SLEEP

- * Press this button to enter SLEEP mode, which the unit will exit after 10 hours of continuous operation and restore to the previous status.

Note:The SLEEP function cannot be activated in FAN mode.

12. SWING ↑↓

- * Press this button to activate up/down swing and press it again to fix the swing position.

Buttons description

13. Anti-F

- * The Anti-F functions when the unit is turned off with the remote controller in COOL, DRY or AUTO mode. It will operate in HEAT mode (FAN mode for cool only units), with the internal fan running with weak flow for 3 minutes before stop, to remove the moisture within the evaporator so as to prevent it from giving off bad smell from mold.
- * This function is not set in the factory. You may set it or cancel it any time you want as follows: With both the unit and the remote controller OFF, point the remote controller at the unit and press “Anti-F” button once, the buzzer will sound 5 times after 5 times, indicating this function is set. Once set, this function will remain valid except when the unit is powered off or until it is canceled.
- * To cancel Anti-F:
 1. Power off the unit.
 2. With both the unit and the remote controller OFF, point the remote controller at the unit and press this button once, the buzzer will sound 3 times after 5 times, indicating this function is canceled.

Note:

- * **With Anti-F activated, it is advised not to turn ON the unit again before it is fully OFF.**
- * **Anti-F function will be invalid when OFF timer is set.**

15.  This button has two functions.

a. ELE.H

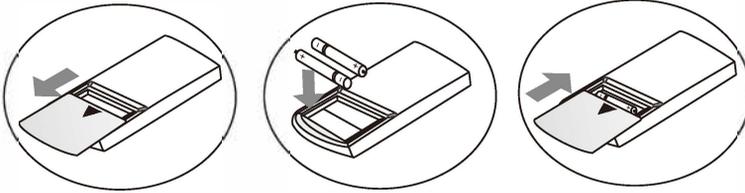
- * If this button is pressed in HEAT mode, the electric heating will be turned on/off.

b. ECO

- * If this button is pressed in COOL mode, the unit will enter the ECO mode which has the lowest electricity consumption, and exit it automatically 8 hours after.
- * Changing modes or turning off the remote controller will automatically cancel the ECO function.
- * Press ECO button in ECO mode to exit this mode.

Note: The ECO mode only works for inverter units.

★ Fix batteries



1. Slide to open the cover according to the direction indicated by the arrowhead.
2. Insert two brand new batteries (7#), and position the batteries to the right electric poles (+ & -).
3. Put back the cover.

★ Automatic operation mode

1. Press the “MODE” button, select the automatic operation mode.
2. By pressing the “SPEED” button, you can select the fan speed from LOW, MID, HIGH, AUTO.
3. Press the “ON/OFF” button, the air-conditioner starts to operate.
4. Press the “ON/OFF” button again, the air-conditioner stops.

Note: In the fan operation mode, the temperature settings is non-effective.

★ Cooling/Heating operation mode

1. Press the “MODE” button, select the Cooling or Heating operation mode.
2. By pressing the “▲” or “▼” button, you can set the temperature, the display changes as you touch the button.
3. By pressing the “SPEED” button, you can select the fan speed from LOW, MID, HIGH, AUTO.
4. Press the “ON/OFF” button, the air-conditioner starts to operate.
5. Press the “ON/OFF” button again, the air-conditioner stops.

Note: The cold wind type has no heating function.

Usage

★ Fan operation mode

1. Press the "MODE" button, select the fan operation mode.
2. By pressing the "SPEED" button, you can select the fan speed from LOW, MID, HIGH.
3. Press the "ON/OFF" button, the air-conditioner starts to operate.
4. Press the "ON/OFF" button again, the air-conditioner stops.

Note: In the fan operation mode, the temperature settings is non-effective.

★ Drying operation mode

1. Press the "MODE" button, select the drying operation mode.
2. By pressing the "▲" or "▼" button, you can set the temperature, the display changes as you touch the button.
3. By pressing the "SPEED" button, you can select the fan speed from LOW, MID, HIGH, AUTO.
4. Press the "ON/OFF" button, the air-conditioner starts to operate.
5. Press the "ON/OFF" button again, the air-conditioner stops.

★ Backlight function (for remote controllers with such function only)

The remote controller has a backlight which can be turned on by pressing any button for the convenience of operation in darkness. The backlight will be automatically turned off if there is no operation within 10 seconds.