# AUX

# Owner's Manual

### SPLIT TYPE FLOOR STANDING AIR-CONDITIONER

Please pay attention to the following:

- \* The installation should be carried out by specialists.
- In order to use it safely, correctly and efficiently, please read the instructions carefully and keep the instructions for reference in the future.
- Make sure of grounding connection of the air-conditioner.

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Check after installation and test operation

Note: All the pictures in this manual are just schematic diagrams. the actual is the standard.

#### **Check after installation**

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- 1. Grounding check: Check that the grounding line is earthed securely.
- 2. Electric leakage check (performed during the test run): During the test run after the installation of the air conditioner, the installers may check with an electric pen or multimeter the housing and other areas where electric leakage may occur, and, if there is indeed electric leakage, immediately stop the unit and carry out further inspection to determine the cause, and, if the installation problems are the culprit, resolve the problems before another test run, until the air conditioner runs safely and normally.
- 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.

#### **Test operation**

- Make sure that pipes and wires are connected.
- Make sure that liquid side valve and air side valve both are completely open.
- Connect the wire to independent power source socket.
- Preparation of remote controller.
- Run the air-conditioner in cooling operation mode for 30 minutes or longer.
- Test the out and in air temperature.
- Make sure whether the outlet air temperature subtract from inlet's gives more than 10°C.

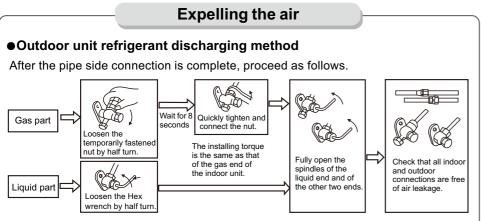
#### Waste disposal

- After installation of the product, please don't throw away the waste (such as packaging materials), which shall be placed at the rubbish dump.
- When the product is damaged or replaced, please submit the waste to the professional recycling agency for disposal.

<sup>2.</sup> Instrument method: Checking for leak by pointing the probe of the leak detector according to the instruction to the suspect points of leak.

### Install outdoor unit

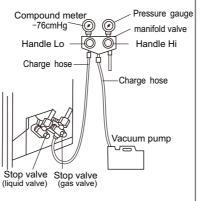
### **Safety precautions**



### 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 retighten it afterward.(to prevent the potential air leakage)

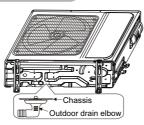
- 1. To prevent air leakage and spilling tighten all connecting nut of all flare tubes.
- 2. Connect the stop valve, charge hose, manifold valve, and vacuum pump.
- 3. Fully open the handle Lo of the manifold valve and apply vacuum for at least 15 minutes and check that the compound vacuum gauge reads -0.1MPa(-76cmHg).
- 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.



#### 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 house. **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.



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 **A** This symbol indicates the possibility of death or serious injury.

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

#### WARNING 🛆

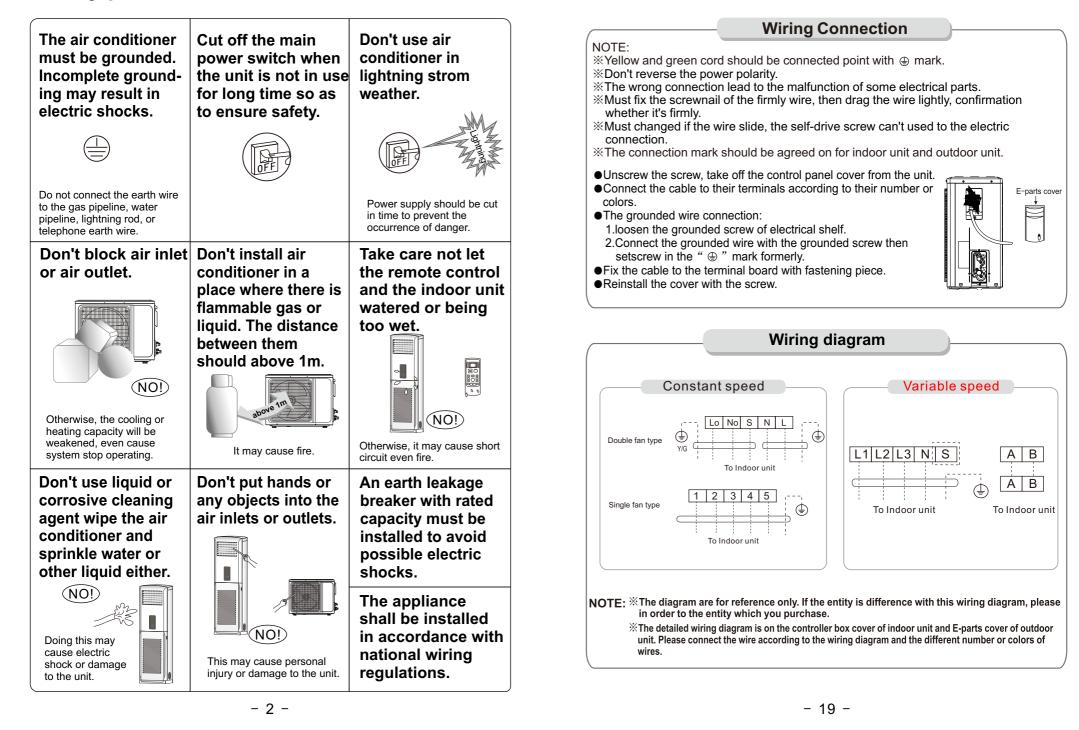
This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. 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.

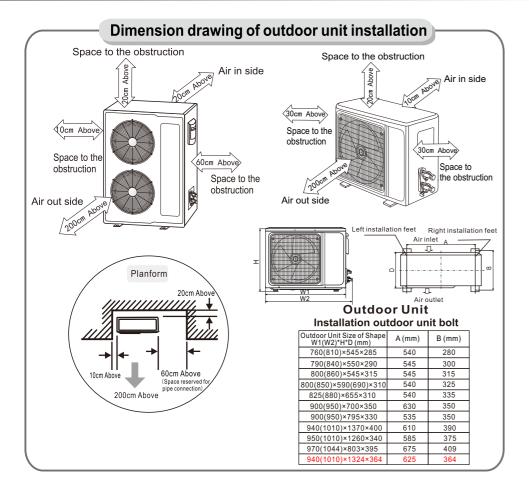
(Except for the AC with CE-MARKING)

### **Safety precautions**

### Install outdoor unit



### Install outdoor unit



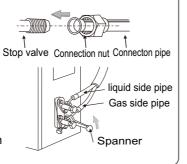
#### Install the connection pipe

Connect the Outdoor Unit with Connection Pipe: Aim the counter-bore of the connection pipe at the shut off valve, and tighten the Taper nut with fingers. Then tighten the Taper nut with a torque wrench until the wrench makes a "click" sound.

#### ★ Piping Length and Height

The maximum piping length (m)	Maximum height difference (m)
25	6

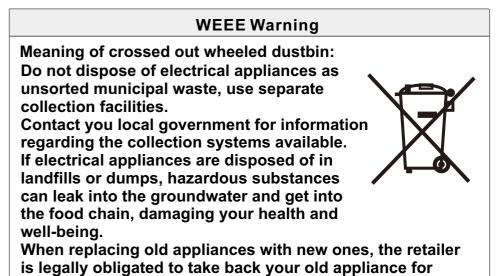
Note: If the pipe length is greater than 5m but is less than 25m, add refrigerant according to 20g/m.



Regarding the installation of the air conditioners, please refer to the below paragraphs in this manual.

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 professiona.



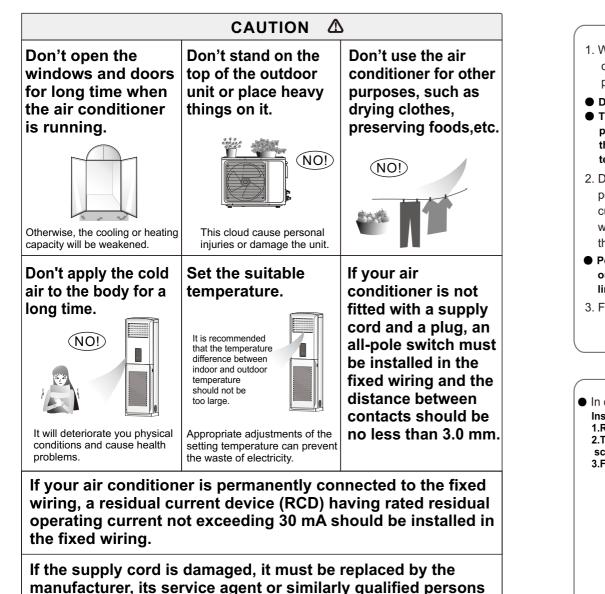
disposals at least free of charge.

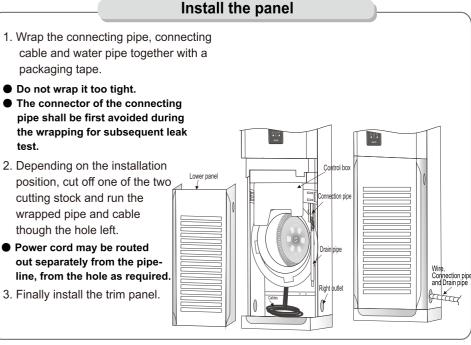
### **Safety precautions**

in order to avoid a hazard.

the maximum current.

### Install indoor unit





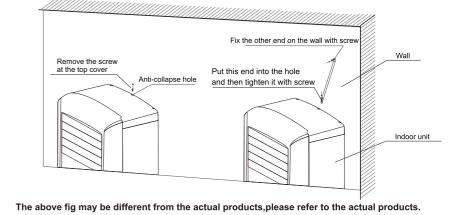
#### Install the anti-collapse chain

 In order to prevent accidental collapse of indoor unit, please install the anti-collapse chain. Installation steps:

1.Remove the screw of anti-collapse hole at the top cover of indoor unit;

2. Take out the anti-collapse chain and put it into the anti-collapse hole, and then tighten it with screw;

3. Fix the other end of anti-collapse chain on the wall with screw.



The power supply circuit should have leakage protector and air switch of which the capacity should be more than 1.5 times of

### Install indoor unit

### Notices for use

- 5. Power cord may be routed out separately from the pipeline and through the back from the left or right side as required.
- 6. After the installation of the panel, move the indoor unit to a corner of the room or next to a wall, making it as close as possible to the wall as long as the minimum distance is allowed.

#### **Drain pipe connection**

- 1. The drain pipe shall be tilted from inside to outside in order to drain the condensate water easily.
- 2. The joint shall be tightened, and its indoor part shall be wrapped with thermal insulation material.
- 3. Properly route the connection pipe, power cable, signal connection cable and drain pipe when wrapping, to avoid the concave-convex of drain pipe.

**Note:** After the drain pipe out of the wall, the outdoor part shall not be higher than the wall hole, i.e. not higher than 30cm, to avoid the backflow of condensate water.

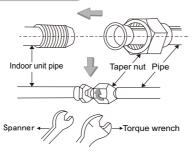
## Interface Outdoor E

Thermal insulation pipe Drain pipe

(indoor unit)

#### Install the connection pipe

Uncoil the connection pipe, and bend the connection pipe according to your required length, unscrew the nuts of the pipe of the indoor unit, align the conical joint of connection pipe with the center of the corresponding pipe of indoor unit, tighten the nut by hand, and then tighten it again with torque wrench. The torques used are shown in the following table:



#### Tightening torque table

The size of pipe(mm)	Torque(N • m)
$\Phi 6 / \Phi 6.35$	$15 \sim 25$
Φ9/Φ9.52	$35 \sim 40$
$\Phi 12 / \Phi 12.7$	$45 \sim 60$
$\Phi 15.88$	$73 \sim 78$
Φ19.05	$75 \sim 80$

Note: Firstly connect the connection pipe to indoor unit. then to outdoor unit; pay attention to the bending, do not damage the connection pipe; the joint nut couldn't lighten too much, otherwise it may cause leakage.

- 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.

Quitida en		>43℃(Apply to T1)
Cooling Outdoor	Outdoor	>52°C(Apply to T3)
	Indoor	< <b>18</b> °C
Heating	Outdoor	> <b>24</b> °C
		<-7°C
	Indoor	> <b>27</b> °C

- \* 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 condenses or dripping near the air outlet.
- \* T1 and T3 refer to ISO 5151.

#### Notes for heating

- \* The fan of the indoor unit will not start running immediately after 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 ambient temperature display

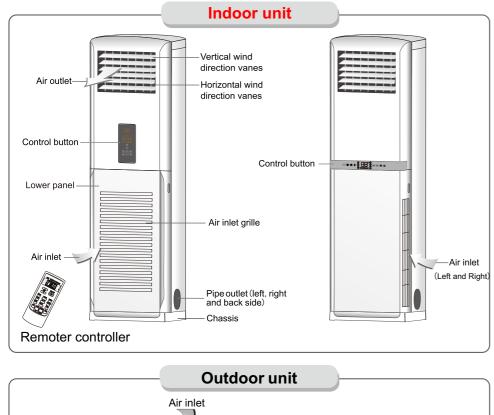
- \* To prolong the useful life of the compressor, the AC controller will turn ON/OFF the compressor automatically according to the actual conditions, and it is normal that the unit may not be turned off immediately after the ambient temperature reaches the set temperature, but after a delay.
- \* As the temperature is not uniform throughout the room, the air conditioner will make compensation automatically to improve the comfort, it is normal that the temperature displayed is not the same as measured by the user.

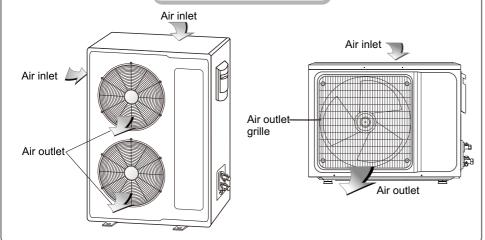
#### Notes for turning off

\* 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.

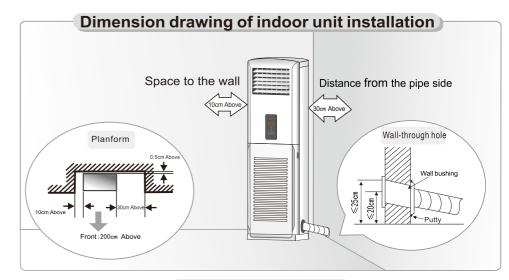
### Names of each part

### Install indoor unit



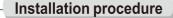


Note: All the pictures in this manual are just schematic diagrams, the actual is the standard.

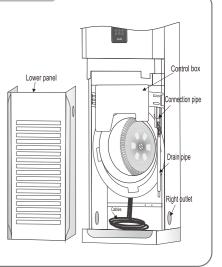


#### Wall-through hole

- 1. Make the piping hole in the wall at a slight downward slant to the outdoor side.
- 2. Insert the piping-hole sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole.
- 3. The center of the hole in the wall shall not be more than 20 cm from the bottom of the air conditioner and the highest point of the hole shall not be more than 25 cm from the bottom to prevent water leak.



- 1. Loosen and remove the lower panel.
- 2. Butt the connecting pipes and wrap them together with the water pipes and the connecting wires (Note :In some models, connecting wires inside the electric control box have been connected in the factory, while in the rest models, the connecting wires are not connected. The clients may need to connect it by themselves. Please connect the wire according to the wiring diagram on the controller box cover of indoor unit ), then fasten the wrapped pipes with the press plate.
- 4. Depending on the position of the hole in the wall with respect to the body, select left or right pipe outlet on the back, cut off the cutting-stock of the rodent baffle and keep the remaining to protect the unit from rodents.



### **Notices for installation**

### **Operation manual of the control panel**

#### **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.

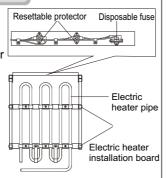
#### Others

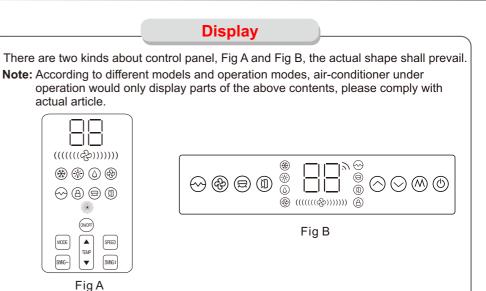
- The connection method of unit and power cable as well as the interconnect method of each isolated component should refer to the circuit diagram stick on the unit.
- The model of the blown fuse and rated value should refer to the silk-screen on the controller or fuse sleeve.
- The auxiliary electric heater shall be installed on the evaporator of the indoor unit, the rated power of which shall be in accordance with the name plate.
- The auxiliary electric heater shall be kept a distance of 12mm from the enclosure to prevent inflammation that could cause fires.
- As the auxiliary electric heater is installed next to the left or right insulated mounting rack, the electric heating tube and the protections, if damaged, shall be replaced by professionals with spare parts provided by the Company.

Note: This is just schematic plan, please refer to the actual product. This part only instructions for auxiliary heating function apparatus.

Packing list of the indoor unit Packing list of the outdoor unit			
Name	Quantity	Name	Quantity
Indoor unit	1 Set	Outdoor unit	1 Set
Remote controller	1 PC	Connection pipe	2 PC
Batteries (7#)	2 PC	* Plastic strap	1 ROLL
Instructions	1 Set	* Pipe protection ring	1 PC
Drain pipe	1 PC	*Luting (putty)	1 PACKE

The above fittings may be different from the actual products; please refer to the actual products.





	Control button
	Press this button, the unit will be started or stopped, which can clear the timer or sleeping function of last time.
	Press this button, the running mode will change as below: COOL→DRY→HEAT→FAN_ Note: cooling only unit has no heating function.
ଝ —	You can select fan speed as the following: $\rightarrow LOW \rightarrow MID \rightarrow HIGH$
SMG- (1)	Press this button to open left/right(up/down) swing function, if press it again, the position will be turned off. With the memory function for the air swing, the original setting will remain valid after the unit is turned off and on again.
~/v —	Press the " $\land$ "or " $\checkmark$ " button, set the temperature, temperature can be set at 1 °C difference range from 16-32°C. Note: the TEMP button is invalid in fanning mode.
$\odot$ —	If this button is pressed in HEAT mode, the electric heating will be turned on/off. Note: Some units don't have this button.

### **Clean and care**

### **Notices for installation**

#### **▲** Caution

- 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 shocks.
- 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 using, pay attention to cleaning the filter regularly, to prevent the covering of dust which may affect the effect. If the service environment of the air conditioner is dusty, correspondingly increase the number of times of cleanings.
- 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

 Clean the air conditioner with a piece of soft and dry cloth. When the panel of the indoor unit is contaminated, clean it gently with a wrung towel using tepid water below 40°C.



• Don't splash water on the indoor unit. As the indoor unit of the air conditioner contains micro-computer components and circuit boards, no damping and soaking is allowed.

#### Clean the air filter

Air filter

#### Take off the air filter

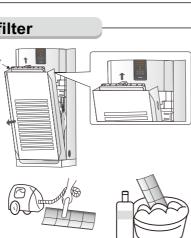
Remove the screw on the top of the inlet panel. Grasp the inlet panel and gently pull forward to yourself, then pull out the air filter.

#### Clean the air filter

To clean the dust adhering to the filters , you can either use a vacuum cleaner, or wash them with warm water(the water with the neutral detergent should below  $40^{\circ}$ C) , and dry it in the shade.

#### Insert the air filter

Insert the air filter into the slot in the direction opposite to when it is removed.



#### **Requirements for operations at raised height**

• When carrying out installation at 2m or higher above the base level, safety belts must be worn and ropes of sufficient strength be securely fasten to the outdoor unit, to prevent falling that could cause personal injury or death as well as property loss.

#### **Electrical safety requirements**

- Be sure to use the rated voltage and air conditioners dedicated circuit for the power supply, and the power cord diameter must meet the national requirements.
- When the maximum current of air conditioner is ≥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
- The minimum clearance between the air conditioner and the combustibles is 1.5 m.
- The power cable enables communication between the indoor and outdoor units. You must first choose the right cable size before preparing it for connection.
- Cable Types: Indoor Power Cord(if applicable): H05VV-F; Outdoor Power Cord:H07RN-F or H05RN-F; Power Cable: H07RN-F or H05RN-F;
- Minimum Cross-Sectional Area of Power and Power Cables

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INUI			erica

#### Other Regions

	Rated Current	Nominal Cross-	
AWG	of Appliance(A)	Sectional Area(mm <sup>2</sup> )	
18	$>$ 3 and $\leq$ 6	0.75	
16	>6 and ≤10	1	
14	>10 and ≤16	1.5	
12	$>$ 16 and $\leq$ 25	2.5	
10	$>$ 25 and $\leq$ 32	4	
8	>32 and ≤40	6	
	16 14 12	AWGof Appliance(A)18 $>3$ and $\leq 6$ 16 $>6$ and $\leq 10$ 14 $>10$ and $\leq 16$ 12 $>16$ and $\leq 25$ 10 $>25$ and $\leq 32$	

Note: If the length of power cable >8m, choose a larger size.

- The size of the power 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: Core number of cable refer to the detailed wiring diagram adhered on the unit which you purchased.

### **Notices for installation**

### **Clean and care**

#### • Important notices

- Before installating, please contact with local authorized maintenance center, if unit is not installed by the authorized maintenance center, the malfunction may not 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 local special 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 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 200kg, 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.

#### Clean the air filter

- The cleaning and maintenance of the filter must be finished by the manufacturer or its service agent or a similar qualified person.
- If conditions do not allow by qualified person to clean, please make sure the air conditioners completely without electricity for three minutes and motion mechanism under the condition of full stop then clean. (because of the air conditioner interior with high voltage and motion mechanism, maybe lead to electric shock and injury risk)

#### Check before use

- 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 local service center.

#### Maintain after use

- 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 indoor and the outdoor 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 local service center.

# Troubleshooting

# Troubleshooting

	<b>∧</b> Caution	There is sound of • When the air conditioner is started up or stopped, or the
shock or fire, please conta	ioner by yourself as wrong maintenance may cause electric act the authorized service center and let the professionals and checking the following items prior to contacting for	There is sound of running water during the running, sometimes the "hissing" sound of running water can be heard. → This is the sound of the flow of the refrigerant, not a malfunction.
Phenomenon	Troubleshooting	A slight "click" sound is heard at the of
The air conditioner does not work.	There might be power outages. → Wait until power is restored. Power plug may be loose out from the socket. → The plug in the plug tightly. Power switch fuse may blow. → Replace the fuse. The time for timing boot is yet to come. → Wait or cancel the timer settings.	<ul> <li>The indoor unit</li> </ul>
can't run after the	f the air conditioner is turned on immediately after it is urned off, the protective delay switch will delay the operation for 3 to 5 minutes.	<ul> <li>makes abnormal sound.</li> <li>a Too much air noise when "Strong wind" is turned on.</li> <li>→ This is normal, if feeling uncomfortable, please deactivate the "Strong wind" function.</li> </ul>
The air conditioner stops running after it	May reach the setting temperature. → It is a normal function phenomenon. May be at a defrosting state. → It will automatically restore and run again after defrosting. Shutdown Timer may be set. → If you continue to use, please turn it on again.	<ul> <li>When ambient humidity is high, water drops will be accumulated around the air outlet or the panel, etc. → This is a normal physics phenomenon.</li> <li>Prolonged cooling run in open space produces water drops. → Close the doors and windows.</li> <li>Too small opening angle of the louver blades may also result in water drops at the air inlet.</li> </ul>
The wind blows out, but the cooling/ heating effect is	Excessive accumulation of dust on filter, blocking at air inlet and outlet, and the excessively small angle of the louver blades all will affect the cooling and heating effect. → Please clean the filter, remove the obstacles at the air hlet and outlet and regulate the angle of the louver blades. Poor cooling and heating effect caused by doors and vindows opening, and unclosed exhaust fan. → Please close the doors, windows, the exhaust fan, etc. Auxiliary heating function is not turned on while heating,	During the cooling operation, the indoor unit outlet sometimes will blow out mist. <ul> <li>When the indoor temperature and humidity are high, it happens sometimes.</li> <li>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.</li> </ul> <li>In water diops at the air miet.</li> <li>Increase the angle of the louver blades.</li> <li>When the indoor temperature and humidity are high, it happens sometimes.</li> <li>This is because the indoor temperature and humidity will be reduced and the mist will disappear.</li> <li>Increase the angle of the louver blades.</li> <li>Increase the angle of the louver blades.</li>
which may lead to p → Turn on the auxilia (only for models with • Mode setting is inco speed settings are r → Please re-select t	which may lead to poor heating effect. • Turn on the auxiliary heating function. only for models with auxiliary heating function) Mode setting is incorrect, and the temperature and wind speed settings are not appropriate. → Please re-select the mode, and set the appropriate emperature and wind speed.	<ul> <li>Immediately stop all operations and cut off the power supply, contact our Service center locally in following situations.</li> <li>Hear any harsh sound or smell any awful odor during running.</li> <li>Abnormal heating of power cord and plug occurs.</li> <li>The unit or remote control has any foreign substance or water.</li> </ul>
The indoor unit blows out odor.	The air conditioner itself does not have undesirable odor. f there is odor, it may be due to accumulation of the odor n the environment. → Clean the air filter or activate the cleaning function.	<ul> <li>▲ Air switch or leakage protection switch is often disconnected.</li> <li>▲ Fault code is displayed on the panel display of air conditioner: FA, Fb, F*, E*, P*, L* (* represents the number 0 to 9).</li> </ul>