



st Please read this owner's manual carefully and thoroughly before operating the unit! ※ Take care of this manual for future reference.

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## **Safety Precautions**

Incorrect operation due to ignoring instruction will cause harm or damage. 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 only.

# WARNING

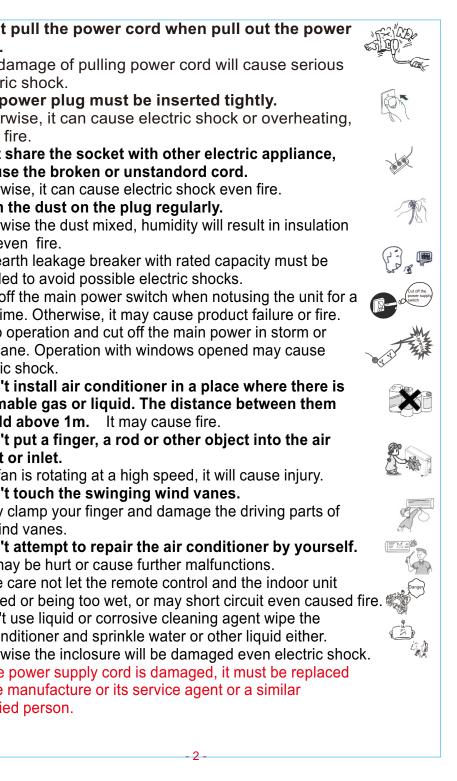
- 1.This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. 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)
- 2.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) 3. The air conditioner must be grounded. Incomplete grounding may result in electric shocks. Do not connect the earth wire to the gas pipeline, water pipeline, lightning rod, or telephone earth wire.
- 4.Don't pull out the power plug during operating or with wet hands.
- It can cause electric shock or fire. 5. The appliance shall be installed in accordance with national wiring regulations.

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#### 6.Don't pull the power cord when pull out the power plug.

- The damage of pulling power cord will cause serious electric shock.
- 7.The power plug must be inserted tightly. Otherwise, it can cause electric shock or overheating, even fire.
- 8.Don't share the socket with other electric appliance, and use the broken or unstandord cord. Otherwise, it can cause electric shock even fire.
- 9.Clean the dust on the plug regularly. Otherwise the dust mixed, humidity will result in insulation fault even fire.
- **10.**An earth leakage breaker with rated capacity must be installed to avoid possible electric shocks.
- **11.**Cut off the main power switch when notusing the unit for a long time. Otherwise, it may cause product failure or fire. long time. Otherwise, it may cause product failure or fire.
- **12.**Stop operation and cut off the main power in storm or hurricane. Operation with windows opened may cause electric shock.
- 13.Don't install air conditioner in a place where there is flammable gas or liquid. The distance between them should above 1m. It may cause fire.
- 14.Don't put a finger, a rod or other object into the air outlet or inlet.
- As a fan is rotating at a high speed, it will cause injury. 15.Don't touch the swinging wind vanes. It may clamp your finger and damage the driving parts of the wind vanes.
- 16.Don't attempt to repair the air conditioner by yourself. You may be hurt or cause further malfunctions.
- watered or being too wet, or may short circuit even caused fire. 17. Take care not let the remote control and the indoor unit 18.Don't use liquid or corrosive cleaning agent wipe the
- air-conditioner and sprinkle water or other liquid either. Otherwise the inclosure will be damaged even electric shock.
- 19.If the power supply cord is damaged, it must be replaced by the manufacture or its service agent or a similar qualified person.



# CAUTION

- 1.Don't install the indoor unit under sunshine directly. 2.Don't block air inlet or air outlet, otherwise, the cooling or heating capacity will be weakened, even cause system stop operating.
- 3.Don't apply the cold air to the body for a long time. It will deteriorate your physical conditions and cause health problems.
- 4. Close the windows and doors, otherwise, the cooling or heating capacity will be weakened.
- 5.If the air filter is very dirty, the cooling or heating capacity will be weakened. Please clean the air filter regularly.
- 6.It was prohibited to stand or put things onto the top of the outdoor, to avoid drop or damage. In no case should children be allowed to sit on the outdoor unit.
- 7.Set the suitable temperature, especially there are old people, children and patients in the room. Generally, keep the temperature difference for 5°C between the inside and outside.
- 8.In case that the unit occurs closing down due to the severe interference from outer environments such as mobile phone, please cut off the plug and plug in to restart the air conditioner after several seconds.
- 9.It is forbidden to let the air conditioner keep precision instrumentation, artistic production for long time and make food fresh, otherwise abnormal using will cause damage and weaken. 10.It is forbidden to let children and the disabled use air-condition without other adult checking.
- 11.Open windows frequently after using air-condition for a long time. 12.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.
- 13.If your air conditioner is permanently connected to the fixed wiring and have a leakage current that may exceed 10 mA. Leakage protector must be installed in the fixed wiring.
- 14. 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.
- 15. If the equipment emissions cannot meet the technical requirement of IEC 61000-3-3, following Attention should be take care.

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#### Attention!

This appliance can be connected only to a supply with system impedance no more than Zmax.In case necessary, please consult your supply authority for system impedance information.

# Product TypeZmaxASW-H18E1A4/#R1-C50.395#= SA,SC,SD,SE,SF,SP,SQ,SR,SO,SS,ST,SV,SQC,SL,SW,SG,SH,SU,SK,VA,VH,SUA,<br/>SUC,SUD,SUV,SUE,SUG,SUK,SUN,SUP,SUL, SUQ,SUR,SUT,SUX,QB,EW,ELASW-H24F8A4/#R1-C50.284#=SA,SC,SD,SE,SF,SP,SQ,SR,SO,SS,ST,SV,SQC,SL,SW,SG,SH,SU,SK,VA,VH,SUA,<br/>SUC,SUD,SUV,SUE,SUG,SUK,SUN,SUP,SUL,SUQ,SUR,SUT,SUX,EA-EC,EE-EQ,ES-EZ,<br/>EAA,EAB,EAC,EAD,EQB,EQC,EYK,EXA,ESK,QF,QA,QB,QC,QD,QN

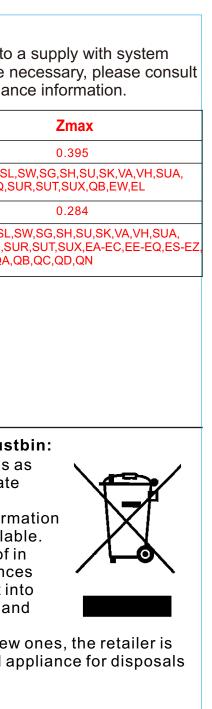
# WEEE Warning

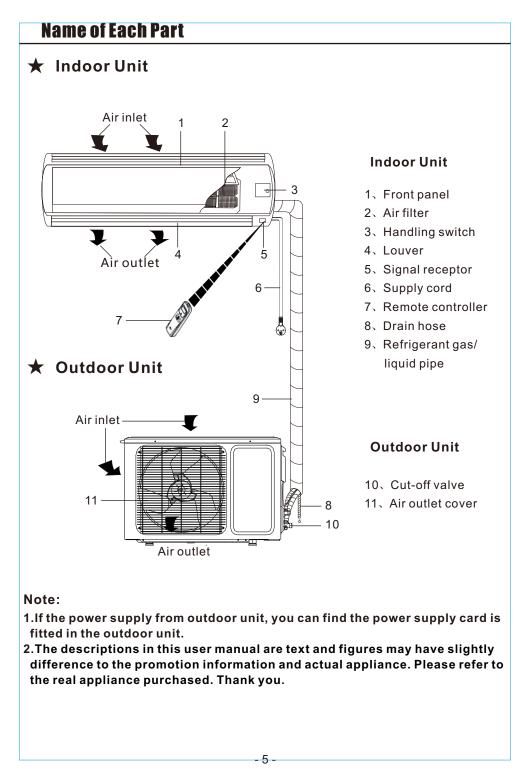
Meaning of crossed out wheeled dustbin: Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

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.

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## Indoor Unit

#### 1、Front panel

- 2、Air filter
- 3、Handling switch
- 4、Louver
- 5、Signal receptor
- 6、Supply cord
- 7、Remote controller
- 8、Drain hose
- 9、Refrigerant gas/ liquid pipe

#### Outdoor Unit

10、Cut-off valve 11、Air outlet cover 10

## Operation

#### ★ Remote controller operation

See "air conditioner remote controller instruction "

#### ★ Manual operation

#### $\precsim$ Manual operation

When the remote controller does not work or can not be found, please follow these steps:

1.As the unit is operating, you can press the "Auto button" to stop operating.

2.As the unit is stopping, you can press the "Auto button" to start operating.

#### $m \precsim$ Adjusting air flow direction

1.Adjusting horizontal air flow manually. Use your hands to move the vertical airflow vane and change the horizontal wind direction.

#### ▲ Note:

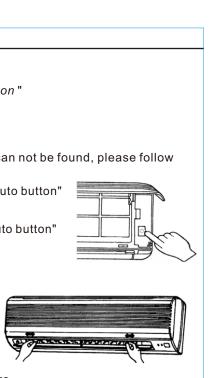
a. Adjust the horizontal air flow direction before the air-conditioner starts. Don't insert your finger into air intake or outlet vents when the air-conditioner is operating. b. For appliance with auto pendulum wind function, please refer to "air conditioner remote controller instruction " for how to adjust horizontal air flow.

2. Adjusting vertical air flow direction(up-down) Refer to"air conditioner remote controller instruction "for how to adjust vertical airflow direction through adjusting the horizontal airflow vane by remote controller.

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## ▲Note:

- Adjust the vertical air flow direction by remote controller. When you adjust the horizontal airflow vane by hand, the machine may cause problem.
- Manual operation can be used temporarily in case you can not use remote controller or its batteries are exhausted.
- When the air-conditioner stops, the horizontal wind vane will close the wind outlet of air conditioner.



#### Notices

- To prevent injury and property damage, Please pay attention to these following before operating the air conditioner.
- Checking before operation
   1.Make sure that the earth wire is connected safely and reliably. 2.Make sure the filter net is properly fixed.
- 3.Make sure that air outlet and inlet are not blocked. 4.Please clean the filter before starting the air-conditioner referring to page to 6 "Cleaning"for how to operate.
- 5. Check to see whether the outdoor install bracket is damage. If yes, please contact our Service center locally.

#### ★ Safety tips

In order to use the air conditioner properly, please refer to its working temperature range. Otherwise, indoor unit automatic protection function may be activated, cooling or heating efficiency will be weakened.

The air-conditioner may can't run in normal followed under mentioned table

		> <mark>43℃</mark> (Appl
Cooling	Outdoor	>52℃(Appl
	Indoor	< <b>18</b> ℃
		> <b>24</b> ℃
Heating	Outdoor	< <b>-7</b> ℃
neating	Indoor	> <b>27</b> ℃

Note:T1 and T3 refer to ISO 5151.

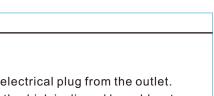
#### ★ Notices for R410A models

N 842/2006: If the air conditioner you bought used the refrigerant R410A, the amount of refrigerant is in a closed cooling circuit. The coolant does have zero ozone depletion potential, but is a so-called greenhouse gases under the Kyoto Protocol and may thus contribute to global warming, if it is released to the atmosphere. Therefore only trained technicians with refrigerant certificate make a filling or emptying. GWP: R410A(R32/125:50:50):2088

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ply to T1) oply to T3)

## **Care and Maintenance** ★ Cleaning $m \precsim$ Cleaning the indoor unit 1. Turn off the air-conditioner and remove the electrical plug from the outlet. 2. Wipe the indoor unit with dry cloth or wet cloth which is dipped by cold water. 🗥 Note : • Don't use water above 45°C to wash the panel, or it could cause deformation or depigment. • Don't use thinner, polishing powder, benzene and other volatile chemicals. • Don't use liquid or corrosive detergent clean the appliance and don t splash water or other liquid onto it , otherwise, it may damage the plastic components, even cause electric shock. rightarrow Cleaning air filterFront panel Air filter 1. Raise up the front panel of indoor unit until it suddenly stop, then raise up the protruded part of air filter, and then take it out. 2. Use a vacuum cleaner or wash them with water, then dry it in the shade. 3. Reinsert the air filter into the indoor unit until being entirely fixed, then close the front panel. ★ Maintenance 1. Select "FAN" operation mode, make the air conditioner run a long time to dry. WK 3. Take out the batteries from the remote 4. Clean air filters and other parts. controller. Troubleshooting Check the following before requesting on service centre if the malfunction occurs. Phenomenon • Has the power been shut down? Is the wiring loose? Air conditioner dose Is the voltage higher than 1.1 times of max rated voltage not operate at all Is the fuse burnt? • Does it reach the set time for start up? - 8 -



Front panel



Air filter

2. Turn off the air conditioner and cut y. off the power supply.



# Trouble shooting

or lower than 0.9 times of min rated voltage?

Phenomenon	
Remote controller is not available	<ul> <li>Is the r distant</li> <li>Is the r</li> <li>Are the control</li> </ul>
Cooling (Heating)efficiency is not good	<ul> <li>Is the s</li> <li>Is the a</li> <li>Are air</li> <li>Is indo</li> <li>Is there</li> </ul>
Indoor unit does not operate immediately when the air conditioner is restarted	Once it will r 3 mint
There is unusual smell blowing from the outlet after operation is started.	This is room   mater
Sound of water flow can be heard during cooling operation	This is flowin
Mist is emitted during cooling operation.	Becau down looks l
Mist is emitted during heating operation.	This g defro
Low noise can be heard during operation	<ul> <li>A low the ret</li> <li>A low the de tempe</li> </ul>
ase the following situation, please	

- In c cut off the power supply, then contact with service centre.
- The fuse and switch often breaks.
- Carelessly splash water or something into air conditioner.
- Unusual noise can be heard during operation.
- Electrical wiring and power plug are very hot.
- Wind blowing from the outlet smells terrible during operation. • The Run light or other display flashes rapidly and keeps flashing after repluging.

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#### Troubleshooting

e remote controller out of effective nce to the indoor unit?

battery exhausted? nere any obstructions between the oller and the signal receptor?

e setting temperature suitable? air inlet or outlet obstructed?

ir filter dirty? loor fan speed set at low speed?

ere any heat source in your room? e the air conditioner is stopped, I not operate in approximately

nutes to protect itself. is caused by the odour in the n permeated from building

erial, furniture, or smoke. is caused by the refrigerant

ng inside the unit. use the air of the room is cooled n rapidly by the cold wind and it

like the fog. generate due to moisture in

osting process. hissing sound is caused by efrigerant flowing.

v squeak sound is caused by eformation of plastic due to erature.

iately stop all operations and

# **Installation Guide**

#### ★ Guide for customer

- 1. Please read the instructions carefully before installation of the air-conditioner.
- 2. The installation should be carried out by specialists.
- 3.Installation the air-conditioner and connecting the pipe and wires must be strict to reference the instructions.
- 4. The wiring must be done by qualified electrician according to
- the electrical safety requirements. 5. The customer should have a qualified power supply which
- coincides with the tag of air conditioner, the normal voltage should be in the range of 90-110% of its rated voltage.
- 6. The air conditioner must be well grounded, the switch of the main power of air-conditioner must be reliably grounded.

# ★ Notices

- 1. The air conditioner must be installed on well strong supporter.
- 2. The appliance shall be installed in accordance with national wiring regulations.
- 3.Fix the machine firmly, otherwise it will produce abnormal noise and vibration.
- 4.Install the outdoor unit in the place where it wouldn't disturb your neighbour.
- 5. The method of connection of the appliance to the electrical supply and inter connection of separate somponents, please see the electric connection elements shart which stick on the machine.
- 6.After installation, the power plug should be easily reached.

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# Selection of the installing position

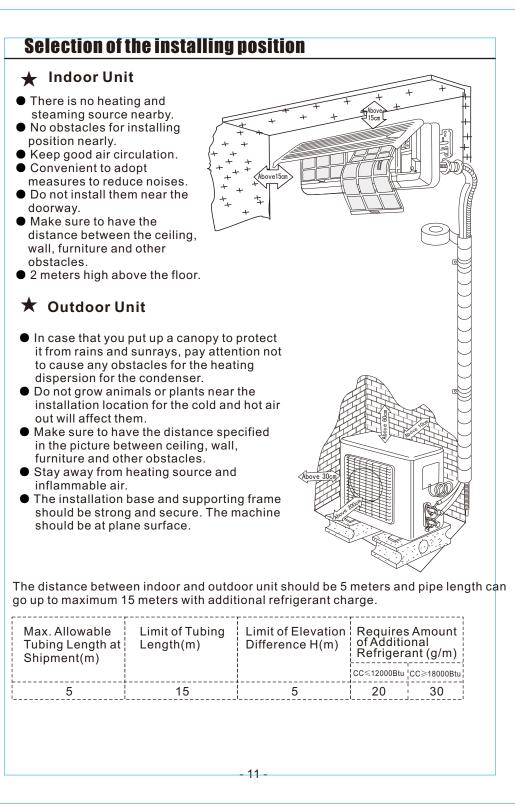
#### ★ Indoor Unit

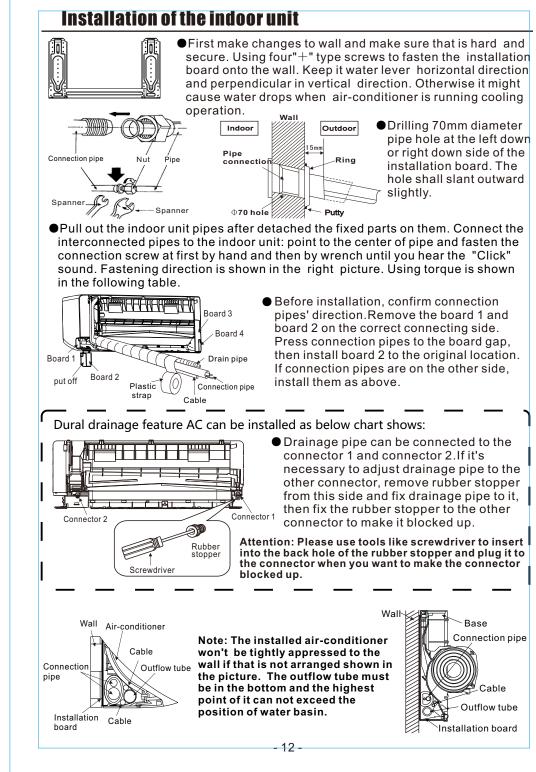
- There is no heating and steaming source nearby.
   No obstacles for installing
- position nearly. Keep good air circulation.
- Convenient to adopt
- measures to reduce noises.Do not install them near the
- doorway. Make sure to have the distance between the ceiling, wall, furniture and other
- obstacles. 2 meters high above the floor.

# \star Outdoor Unit

- In case that you put up a canopy to protect it from rains and sunrays, pay attention not to cause any obstacles for the heating dispersion for the condenser.
  Do not grow animals or plants near the installation leasting for the cold and bet air
- installation location for the cold and hot air out will affect them.
- Make sure to have the distance specified in the picture between ceiling, wall, furniture and other obstacles.
- Stay away from heating source and inflammable air.
  The installation base and supporting frame should be strong and secure. The machine should be at plane surface.

Max. Allowable Tubing Length at Shipment(m)	Limit of Tubing Length(m)	Limit of Differen
5	15	
·		
		- 11 -





#### ★ Check the water discharge

1. Take off the frame the unit cover. Take off the front frame for maintenance according to the following steps:

- according to the following steps:
   Turn perpendicular airflow direction handle from "I " to horizontal direction.
- As shown in the picture on the right, take off two covers from the front frame and then unfasten two fixture screws.
- Pull the front frame towards yourself and take it off.

In case that put the front frame back, turn the perpendicular airflow direction handle from "I" to horizontal, then proceed according to the third and the second steps. You should check whether the front frame is firmly inside the fixture groove on the top.

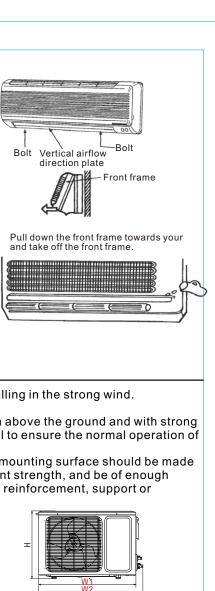
- 2. Check the water discharge.
  Put a cup of water into groove.
  Check whether the water flow through the
- Check whether the water flow through the water discharge hole.

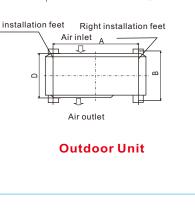
## Installation of the outdoor unit

- The outdoor unit must be firmly fixed to avoid falling in the strong wind.
- Install on the cement base the drawing below.
  If it will be installed at seaside or at a place high above the ground and with strong wind, the AC should be installed against the wall to ensure the normal operation of
- the fan and the blocking plate should be used.
  If it will be installed in type, the structure of the mounting surface should be made of solid stick, cement or materials with equivalent strength, and be of enough bearing capacity. Otherwise, measures such as reinforcement, support or vibration damping should be adopted.

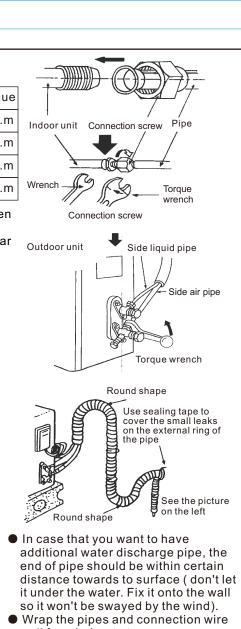
# Installation outdoor unit bolt

6			B (mm)	
	65(710)×420×280	430	280	
6	600(645)×485×260	400	290	
6	60(710)×500×240	500	260	
7	700(745)×500×255	460	260	
7	730(780)×545×285	540	280	Left i
7	760(810)×545×285	540	280	
7	790(840)×550×290	545	300	
8	300(860)×545×315	545	315	
800	)(850)×590(690)×310	540	325	
8	325(880)×655×310	540	335	
9	900(950)×700×350	630	350	
9	900(950)×795×330	535	350	





# **Pipe connection** • Connect the pipe to the unit: point to the center of pipe and fasten by wrench until it is tightly The size of pipe Torque fastened, the fastening $\Phi$ 6.35mm( $\frac{1}{4}''$ ) 18N.m direction is in the following picture. $\Phi$ 9.52mm( $\frac{3''}{8}$ ) 42N.m $\Phi$ 12.7mm $(\frac{1}{2}'')$ 55N.m $\Phi$ 15.88mm $(\frac{5''}{8})$ 75N.m Pointing towards the center of pipe, fasten Forming towards the center of pipe, faster the screw with strength. Wrench the screw in the end until you hear the "Click" sound. Refer the direction to the picture ★ The form of pipe Use sealing tape to cover the small leaks on the external ring of the pipe ap up with ta C R Round in this shape to prevent water entering the electrical parts Wrap up all pipe, water discharge and connection wire from top to below. • Cover the connection and fix them with two plastic rings. • Wrap up the pipes with tape alongside the wall and fix them to the wall with clips. These steps are usually adopted when outdoor unit is installed below the indoor unit. - 14 -



well from below to top. • Wrap up the pipes that are rounded up by the wall comers in the way shown in the picture so it can prevent water entering the room.

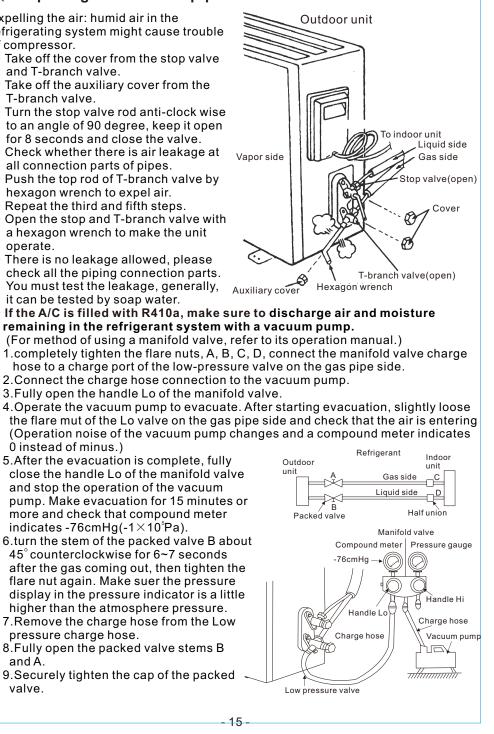
Use clips or other fixture to fasten the pipes to the walls.

## ★ Expelling the air in the pipes and the indoor unit

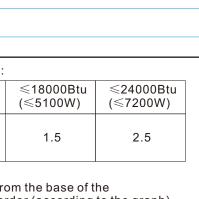
Expelling the air: humid air in the refrigerating system might cause trouble of compressor.

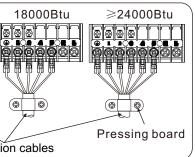
- Take off the cover from the stop valve and T-branch valve.
- Take off the auxiliary cover from the T-branch valve.
- Turn the stop valve rod anti-clock wise to an angle of 90 degree, keep it open for 8 seconds and close the valve.
- Check whether there is air leakage at Vapor side all connection parts of pipes.
- Push the top rod of T-branch valve by hexagon wrench to expel air.
- Repeat the third and fifth steps.
   Open the stop and T-branch valve with
- a hexagon wrench to make the unit operate.
- There is no leakage allowed, please check all the piping connection parts. You must test the leakage, generally, Auxiliary cover
- it can be tested by soap water. • If the A/C is filled with R410a, make sure to discharge air and moisture remaining in the refrigerant system with a vacuum pump. (For method of using a manifold valve, refer to its operation manual.)
- hose to a charge port of the low-pressure valve on the gas pipe side. 2.Connect the charge hose connection to the vacuum pump. 3.Fully open the handle Lo of the manifold valve.
- 4. Operate the vacuum pump to evacuate. After starting evacuation, slightly loose the flare mut of the Lo valve on the gas pipe side and check that the air is entering (Operation noise of the vacuum pump changes and a compound meter indicates 0 instead of minus.)
- 5. After the evacuation is complete, fully close the handle Lo of the manifold valve and stop the operation of the vacuum pump. Make evacuation for 15 minutes or more and check that compound meter indicates -76cmHg(-1×10⁵Pa).
- 6.turn the stem of the packed valve B about 45° counterclockwise for 6~7 seconds after the gas coming out, then tighten the flare nut again. Make suer the pressure display in the pressure indicator is a little higher than the atmosphere pressure. 7.Remove the charge hose from the Low
- pressure charge hose. 8. Fully open the packed valve stems B and A.
- 9.Securely tighten the cap of the packed valve.

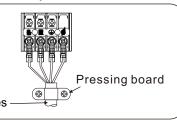
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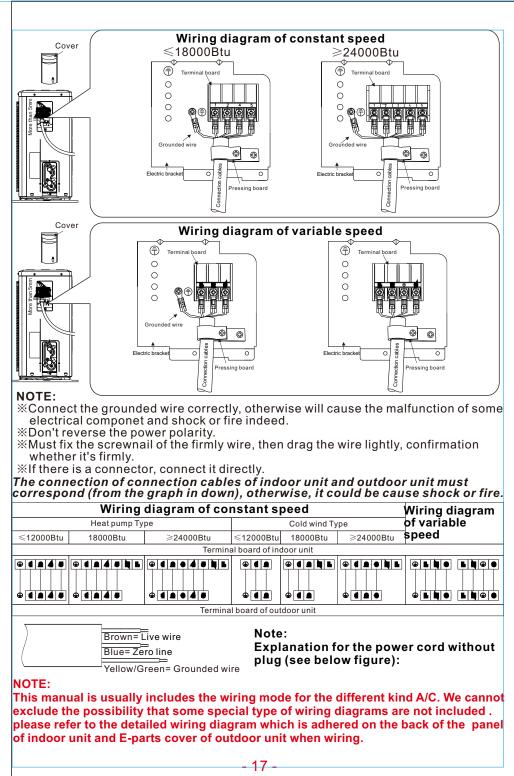


# **Electrical connection** The connection cables should obey MDL this table: ≪9000Btu ≤12000Btu model (≪2500W) (≪3500W) Specification of connection cables 1.0 1.5 (mm<sup>2</sup>) $\,\,\, \bigstar \,$ Indoor connection Open the front panel, inset the connection cables from the base of the air-conditioner, conneting to the terminal board in order (according to the graph), using the pressing board to fasten the connection cables. Wiring diagram of constant speed ≤12000Btu Front panel Bottom frame Connection cables Connection cables Mid-frame Wiring diagram of variable speed Front panel Connection cables -Bottom frame ↑ Mid-frame Connection cables Open the front panel, if the indoor unit is fitted with the signal wire, please detach the mid-frame, and insert the signal wire through the bottom frame, then connect the signal wire quick plug of the indoor's to the outdoor's. Outdoor connection Unscrew the screw, take off the control panel cover from the unit. According the connect position of indoor unit, make sure the connection cables connet to the board of outdoor unit corresponding. The grounded wire connection: I.loosen the grounded screw of electric bracket. Connect the grounded wire with the grounded screw then setscrew in the " ... mark formerly Fix the cable to the terminal board with pressing board. Reinstall the cover with the screw. - 16 -









		r unit must ise shock or fire. Wiring diagram
d wind Ty	rpe	of variable
000Btu	≥24000Btu	speed
nit		-
unit		

## **Test running**

- Make sure that pipes and wires are connected.
  Make sure that liquid side valve and air side valve both are completely open.
  1. The connection of power source
  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

- for 30 minutes or longer.

# **Packing list**

Please check the following attach carefully, if part attach isn t useful, please take care of it.

#### Packing list of the indoor unit

NO.	Name	Unit	Quantity
1	Indoor unit	Set	1
2	Remote controller	PC	1
3	Instructions	PC	1
4	Batteries	PC	2
5	Drain pipe	PC	1
acking list	of the outdoor unit	llnit	Quantity
			<u> </u>
ncking list NO.	of the outdoor unit Name	Unit	Quantity
ncking list NO. 1	of the outdoor unit Name Outdoor unit	Set	1
ncking list NO.	of the outdoor unit Name		_
ncking list NO. 1	of the outdoor unit Name Outdoor unit	Set	1
NO. 1 2	of the outdoor unit Name Outdoor unit Connection pipe	Set PC	1

NO.	Name	Unit	Quantity
1	Indoor unit	Set	1
2	Remote controller	PC	1
3	Instructions	PC	1
4	Batteries	PC	2
5			4
	Drain pipe he outdoor unit Name	PC Unit	1 Quantity
cking list of t	he outdoor unit		
cking list of t	he outdoor unit Name	Unit	Quantity
NO.	he outdoor unit Name Outdoor unit	Unit Set	Quantity 1
cking list of t NO. 1 2	he outdoor unit Name Outdoor unit Connection pipe	Unit Set PC	Quantity 1 2

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