INSTALLATION MANUAL

Four-way Cassette Type

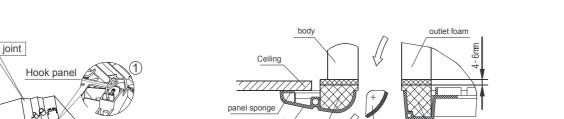
Thank you very much for purchasing our air conditioner, Before using your air conditioner, please read this manual carefully and keep it for future reference.

<u>Body</u>

Failure to observe a warning may result in death. Failure to observe a caution may result in injury or shock. damage to the equipment. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.Also, inform customers that they should store this installation manual along with the owner's manual for future reference. Be sure only trained and qualified service personnel to install, repair or service the equipment. Improper installation, repair, and maintenance may result in electric shocks, short-circuit, leaks, fire or other damage to the equipment. 6 Relocate the installation cover.

• Fasten the rope of installation cover on the bolt of the Align the swing motor on the panel to the tubing joints of the installation cover. (Refer to Fig.5-14-left) body properly. (Refer to Fig.5-10) • Press the installation cover into the panel slightly. (Refer to Fix hooks of the panel at swing motor and its opposite sides Fig.5-14-right) to the hooks of corresponding water receiver. (Refer to Fig.5-10.1) Then hang the other two panel hooks onto corresponding hangers of the body. (Refer to Fig.5-10.2)

3 Install the panel



NOTE <500mm 1-1.5m Lean over 1/ All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased(depend on model). The actual shape shall prevail.

other electrical appliances.

and causing accidents.

Otherwise, it will cause fire or electrical shock.

account strong winds, typhoons or earthquakes.

of extension cord, and do not share the single outlet with

Carry out the specified installation work after taking into

Improper installation work may result in the equipment falling

installation manual

Fig.5-15

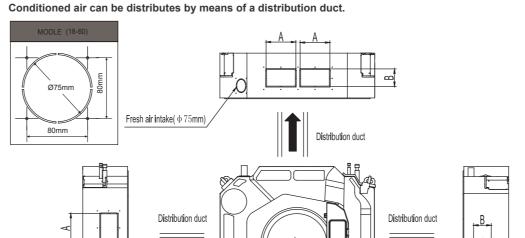
Fig.5-16

 Install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock and fire. When installing the unit in a small room, take measures against to keep refrigerant concentration from exceeding allowable safety limits in the event of refrigerant leakage. Contact the place of purchase for more information. Excessive refrigerant in a closed ambient can lead to oxygen deficiency. Use the attached accessories parts and specified parts for installation. otherwise, it will cause the set to fall, water leakage, electrical shock and fire. 	defective, it will cause water leakage, nd fire.area immediately. Toxic gas may be produced if the refrigerant comes into the place contacting with fire.the unit in a small room, take measures refrigerant concentration from exceeding limits in the event of refrigerant leakage. uce of purchase for more information. rant in a closed ambient can lead to oxygenThe temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.d accessories parts and specified parts cause the set to fall, water leakage,After completing the installation work, check that the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.		
Install at a strong and firm location which is able to			
withstand the set's weight. If the strength is not enough or installation is not properly	CAUTION		
done, the set will drop to cause injury. The appliance must be installed 2.3m above floor.	Ground the air conditioner. Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire.Incomplete grounding may result in electric shocks.	2. INSTALLATION INFORMATION	
The appliance shall not be installed in the laundry.	grounding may result in electric shocks.		
Before obtaining access to terminals, all supply circuits must be disconnected.	Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks.	To install properly, please read this "installation manual" at first.	
The appliance must be positioned so that the plug is accessible.	Connect the outdoor unit wires , then connect the indoor unit wires.	 The air conditioner must be installed by qualified persons. When installing the indoor unit or its tubing, please follow 	
The enclosure of the appliance shall be marked by word, or by symbols, with the direction of the fluid flow.	You are not allow to connect the air conditioner with the power source until wiring and piping the air conditioner is done.	 this manual as strictly as possible. If the air conditioner is installed on a metal part of the building, it must be electrically insulated according to the 	
For electrical work, follow the local national wiring standard, regulation and this installation instructions. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect in electrical work, it will cause electrical shock or fire. Use the specified cable and connect tightly and clamp	While following the instructions in this installation manual, install drain piping in order to ensure proper drainage and insulate piping in order to prevent condensation. Improper drain piping may result in water leakage and property damage.	 relevant standards to electrical appliances. When all the installation work is finished, please turn on the power only after a thorough check. Regret for no further announcement if there is any change 	
the cable so that no external force will be acted on the terminal. If connection or fixing is not perfect, it will cause heat-up or	Install the indoor and outdoor units, power supply wiring and connecting wires at least 1 meter away from	of this manual caused by product improvement.	
fire at the connection.	televisions or radios in order to prevent image interference or noise. Depending on the radio waves, a distance of 1 meter may not	INSTALLATION ORDER	
Wiring routing must be properly arranged so that control board cover is fixed properly.	be sufficient enough to eliminate the noise.	 Select the location; 	
If control board cover is not fixed perfectly, it will cause heat-up at connection point of terminal, fire or electrical	The appliance is not intended for use by young children or infirm persons without supervision.	Install the indoor unit;	
shock.	Daalt install the sin and iting an in the following loostings.	Install the outdoor unit;	
If the supply cord is damaged, it must be replaced by the manufacture or its service agent or a similarly qualified	Don't install the air conditioner in the following locations:There is petrolatum existing.	Install the connecting pipe ;	
person in order to avoid a hazard.	There is salty air surrounding (near the coast).	Connect the drain pipe;	
An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be	There is caustic gas (the sulfide, for example) existing in the air (near a hot spring).	■ Wiring;	
connected in fixed wiring.	The Volt vibrates violently (in the factories).	Test operation.	
When carrying out piping connection, take care not to let	In buses or cabinets.		
air substances go into refrigeration cycle. Otherwise, it will cause lower capacity, abnormal high	In kitchen where it is full of oil gas.		
pressure in the refrigeration cycle, explosion and injury.	There is strong electromagnetic wave existing.		
Do not modify the length of the power supply cord or use of extension cord, and do not share the single outlet with	There are inflammable materials or gas.		

There is acid or alkaline liquid evaporating. Other special conditions.

installation manual

5.4 Install the distribution duct



3. ATTACHED FITTINGS

Please check whether the following fittings are of full scope. If there are some spare fittings, please restore them carefully

	NAME	SHAPE	QUANTITY
Installation Fittings	1. Installation paper board (on some models)		1
Tubing & Fittings	2. Soundproof / insulation sheath (on some models)	0)	1
	3. Out-let pipe sheath (on some models)		1
Drainpipe Fittings	4. Out-let pipe clasp (on some models)	Q	1
	5. Drain joint(on some models)		1
	6. Seal ring(on some models)	0	1
	7. Remote controller		1
Remote controller & Its Frame	8. Remote controller holder		1
he product you have might not be provided the following accessory)	9. Mounting screw(ST2.9×10-C-H)		2
	10. Alkaline dry batteries (AM4)	\bigcirc	2
	11. Owner's manual		1
	12. Installation manual		1
Installation accessory	13. Expansible hook		4
he product you have might not be rovided the following accessory)	14. Installation hook	⊏{ }∞∞∞∞∞∞∞∞∞∞∞∞∞∞∞∞∞∞	4
	15 .Orifice		1

- Never throw or beat the controller. Before installation, operate the remote controller to determine its location in a reception range. Keep the remote controller at least 1m apart from the nearest TV set or stereo equipment. (it is necessary to prevent image disturbances or noise interferences.)
- Do not install the remote controller in a place exposed to direct sunlight or close to a
- Note that the positive and negative poles are right positions when loading batteries.
- This manual is subject to changes due to technological improvement without further notices.

heating source, such as a stove.

direct sunlight.

interfere other people.

(M,N,P) (Refer to Fig.6-5)

• During the heating mode, the water drained off the outdoor unit ,The condensate should be well drained away

· Select the position where it will not be subject to snow

Locate the outdoor unit as close to the indoor unit as

If possible, please remove the obstacles nearby to prevent

• The minimum distance between the outdoor unit and

the performance from being impeded by too little of air

obstacles described in the installation chart does not

mean that the same is applicable to the situation of an

airtight room. Leave open two of the three directions

unavoidable, please cover it with a shelter.

drifts, accumulation of leaves or other seasonal debris. If

by the drain hole to an appropriate place, so as not to

air flow.

possible.

circulation.

6. OUTDOOR UNIT INSTALLATION NOTE 6.1 Installation Place All the pictures in this manual are for explanation The outdoor unit should be installed in the location that purpose only. They may be slightly different from the meets the following requiements: air conditioner you purchased(depend on model).The actual shape shall prevail. There is enough room for installation and maintenance. • The air outlet and the air inlet are not impeded, and can 6.2 Figure of body size not be reached by strong wind. It must be a dry and well ventilating place. Split type outdoor unit The support is flat and horizontal and can stand the weight of the outdoor unit. And will no additional noise or vibration.

• Your neighborhood will not feel uncomfortable with the noise or expelled air.

4. INSPECTING AND HANDLING THE UNIT Tubing sid

At delivery, the package should be checked and any damage should

2 Choose on before hand the path along which the unit is to be

4 When lifting the unit , always use protectors to prevent belt

damage and pay attention to the position of the unit's centre

(Refer to Fig.5-1, Fig.5-2, Fig.5-3 and Table 5-1 for specification.)

The indoor unit should be installed in a location that meets

• There is enough room for installation and maintenance.

• The ceiling is horizontal, and its structure can endure the

• The outlet and the inlet are not impeded, and the

The connecting pipe and drainpipe could be extracted out

[Keep the unit upright in order to avoid compressor

be reported immediately to the service agent.

1 Fragile, handle the unit with care.

damage.

brought in.

of gravity.

5.1 Installation place

easily.

the following reauirements:

weight of the indoor unit.

influence of external air is the least.

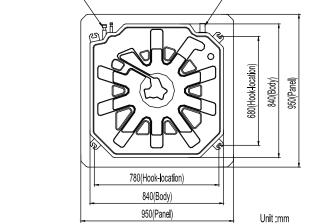
There is no direct radiation from heaters.

• The air flow can reach throughout the room.

When handling the unit, take into account the following:

3 Move this unit as originally package as possible.

5. INDOOR UNIT INSTALLATION



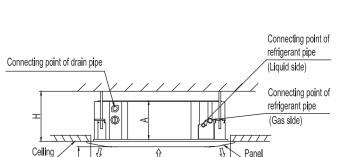
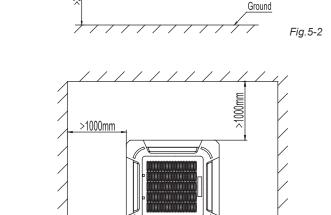


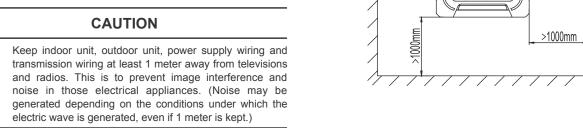
Fig.5-1

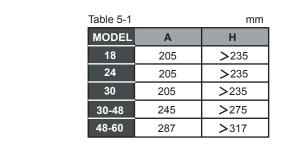
Fig.5-3



880mm(Ceiling hole)

Outlet





installation manual 4

Remote controller

Fig.3-1

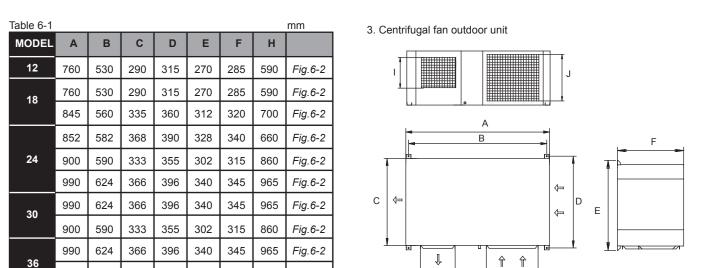
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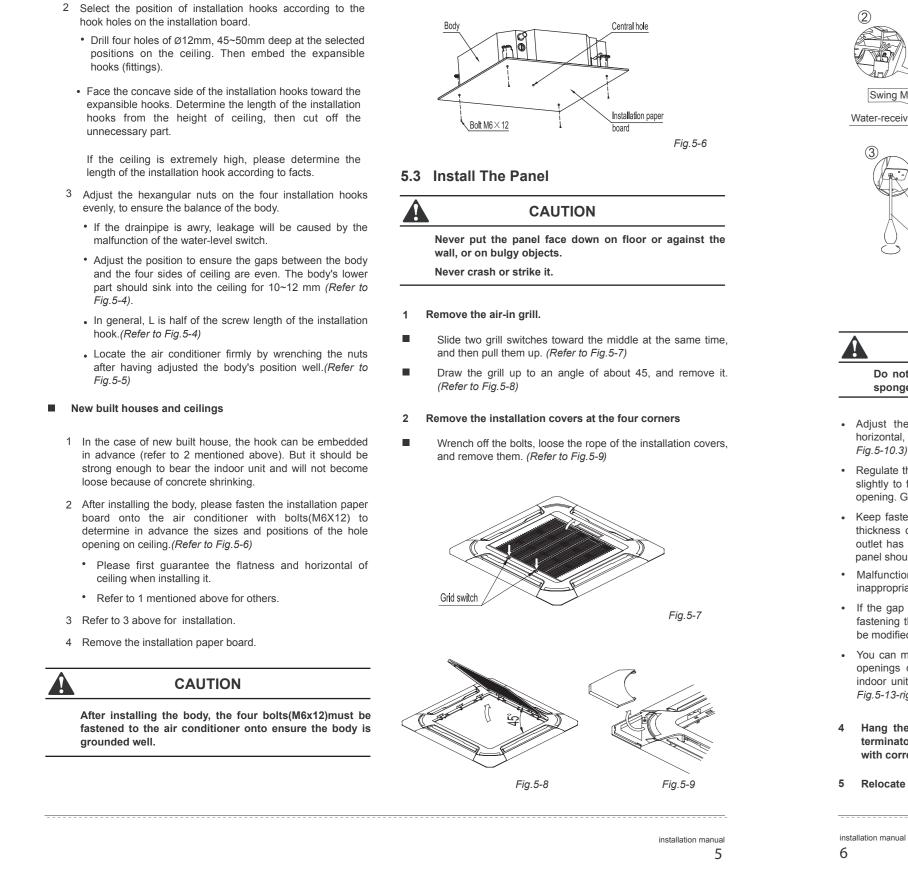
Fia.6-2

Fig.6-3

Fig.6-4

Remote





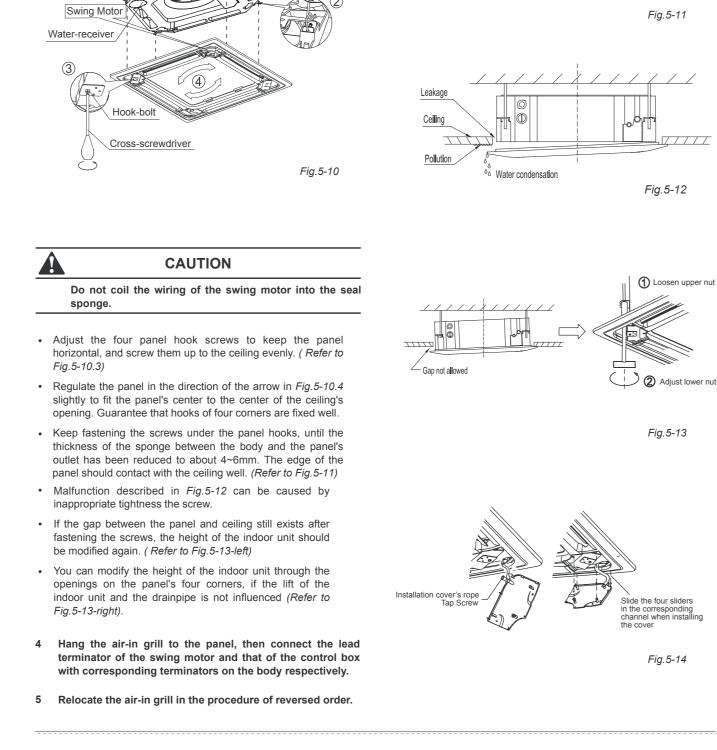
Air inlet modification

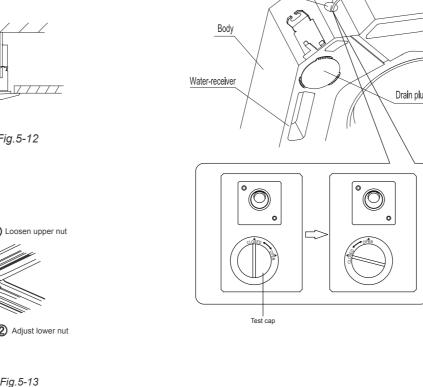
to unit chassis.

mounted as follow.

Fig.6-10

Fig.6-11





CONTENTS

1. PRECAUTIONS ...

2. INSTALLATION INFORMATION

5. INDOOR UNIT INSTALLATION

6. OUTDOOR UNIT INSTALLATION

8. INSTALL THE CONNECTING PIPE ..

international laws and regulations.

Observe them and never forget.

for future reference.

Read "PRECAUTIONS" carefully before installation.

9. CONNECT THE DRAIN PIPE.

4. INSPECTING AND HANDLING THE UNIT ...

Be sure to be in conformity with the local, national and

The following precautions include important safty items.

Keep this manual with the owner's manual in a handy place

The safty precautions listed here are divided into two categories.

WARNING

CAUTION

WARNING

fire at the connection.

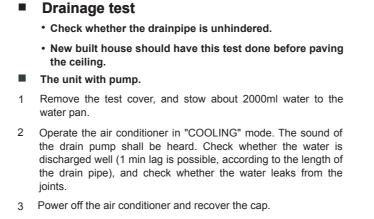
3. ATTACHED FITTINGS

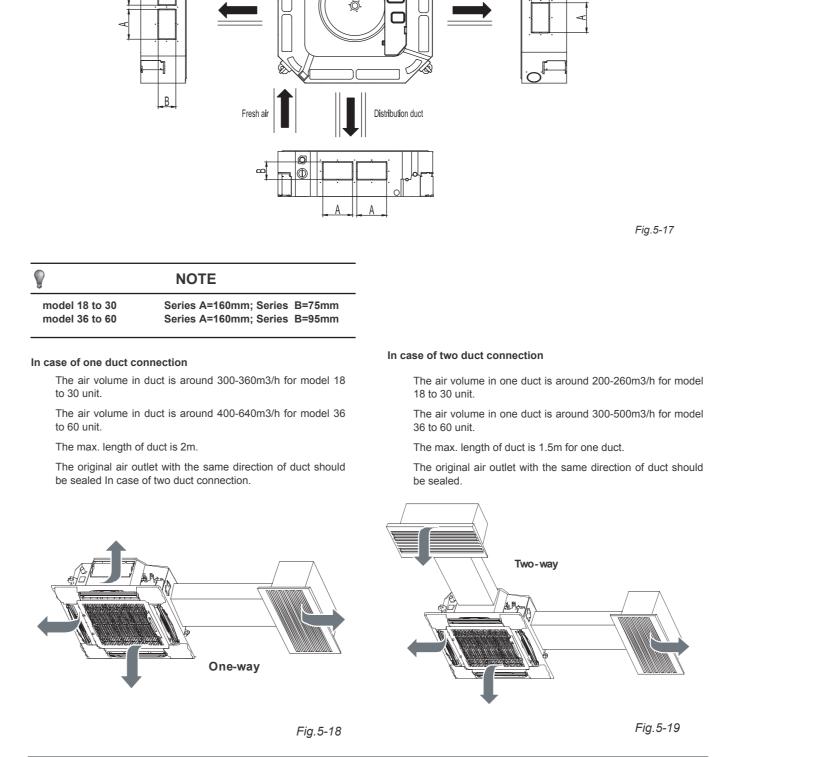
7. REFRIGERANT PIPE

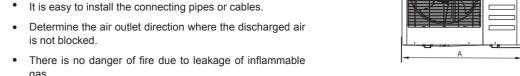
11. TEST OPERATION

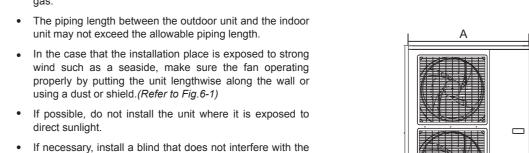
1. PRECAUTIONS

10. WIRING





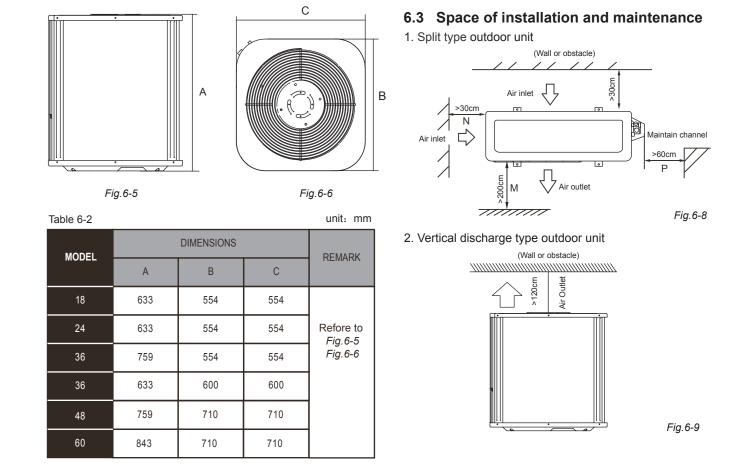




1	404	448	368	392	1369	Fig.6-3		-	G	-	а Н				F	ig.6-7	
4	366	396	340	345	965	Fig.6-2											
1	404	448	368	392	1369	Fig.6-3	Table 6-3	3									mm
4	366	396	340	345	965	Fig.6-2	MODEL	Α	в	С	D	Е	F	G	Н	I	J
0	378	400	330	350	1170	Fig.6-3		1174	1120	680	720	750	475	300	430	265	393
1	404	448	368	392	1369	Fig.6-3	10	1174	1120	680	720	750	475	300	430	205	393
)	378	400	330	350	1170	Fig.6-3	24	1174	1120	680	720	750	475	300	430	265	393
ŀ	404	448	368	392	1369	Fig.6-3	36	1394	1338	783	820	850	568	398	574	342	463
							48	1394	1338	783	820	850	568	398	574	342	463
							60	1394	1338	783	820	850	568	398	574	342	463

2. Vertical discharge type outdoor unit

34 | 404 | 44



installation manual

11.5~13.9

Fig.8-5

6.5 Hexagonal 23~27

wrench 36~44

CAUTION

Hexagonal

installation manual

Manifold valv

Charge hos



• You can use a polyethylene tube as the drainpipe (out-dia.37-39mm, in-dia.32mm). It could be bought at local

market or from your dealer. • Set the mouth of the drainpipe onto the root of the body's pump-pipe, and clip the drainpipe and the out-let pipe sheath

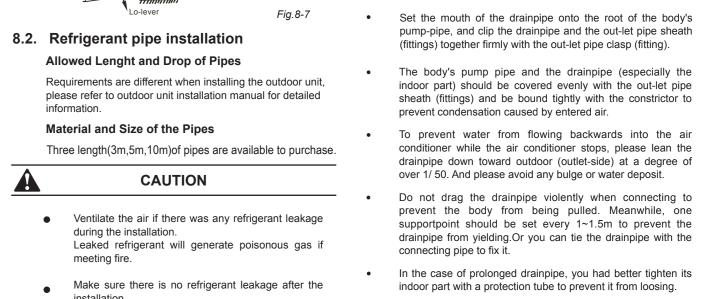
• The body's pump pipe and the drainpipe (especially the indoor part) should be covered evenly with the out-let pipe sheath (fittings) and be bound tightly with the constrictor to

prevent the body from being pulled. Meanwhile, one supportpoint should be set every 1~1.5m to prevent the drainpipe from yielding. Or you can tie the drainpipe with the connecting pipe to fix it.

• In the case of prolonged drainpipe, you had better tighten its indoor part with a protection tube to prevent it from loosing. If the outlet of the drainpipe is higher than the body's pump

joint, the pipe should be arranged as vertically as possible. And the lift distance must be less than 200mm, otherwise the water will overflow when the air conditioner stops.

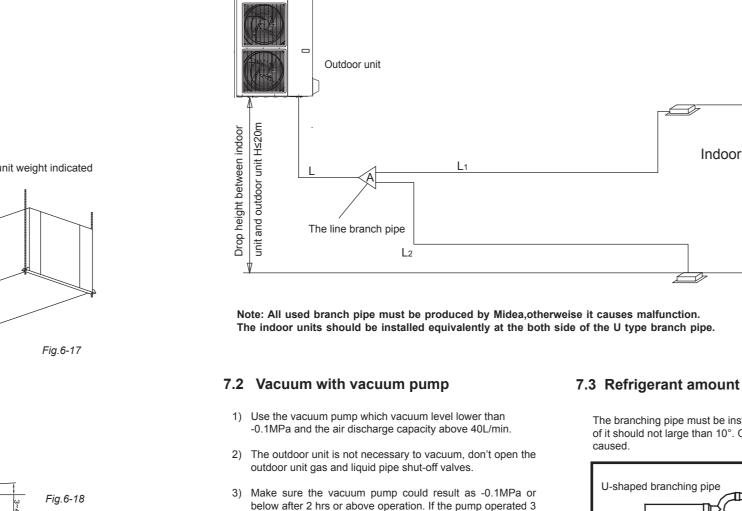
the ground or the bottom of the drainage chute, and do not



Leaked refrigerant will generate poisonous gas if

• The end of the drainpipe should be over 50mm higher than

To change air inlet is only necessary to interchange the indicated panels position. Both panels use screws to be fixed Fix with bolt x x x Suspended unit Fig.6-15 1. Suspend the unit as the drawing indicates. 2. Ensure that ceiling can resist the Outdoor unit weight indicated in specification label plate. NOTE Sling Bolt All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased(depend on model).The actual shape shall prevail. Suspension Bracket Concrete Foundation 1 Foundation could be on flat and is recommended be 100-300mm higher than ground level. 2 Install a drainage around foundation for smooth drain 3 When installing the outdoor unit fix the unit by anchor bolts of 4 When installing the unit on a roof or a veranda, drain water Fia6-13 sometimes turns to ice on a cold morning. Therefore, avoid To change air outlet is necessary to interchange panels too. draining in an area that people often use because it is slippery. Fan outlet panel is attached to fan structure, which must be



7.3 Refrigerant amount to be added The branching pipe must be installed horizontally, error angle of it should not large than 10°. Otherwise, malfunction will be <hr/>

Indoor unit 50Hz T1 condition/R22 Split type air conditione Iz Vertical discharge air con Hz T1 condition/R22 Split type nditioner and Vertical discharge Fig.7-1 R410A inverter Split type air conditioner and and Centrifug fan outdoor unit R410A Split type air conditione and and Centrifugal fan outdoo 50Hz/60Hz T3 condition (outdoor unit down)

Fig.7-3

installation manu

installation manual

installation manual

8. INSTALL THE CONNECTING PIPE 8.1 The Procedure of Connecting Pipes Check whether the height drop between the indoor unit and outdoor unit, the length of refrigerant pipe, and the its cover. number of the bends meet the following requirements: binding tapes. The length of The m The type of models damage to the tubing. 15 details. air with a vacuum pump" for details. 30 unit in fluent flow. 25 1 or soap water. insulating sheath (fittings), and bind it well with the tapes to prevent leakage. CAUTION Be sure to with insulating materials cover all the exposed

1 Drill a hole in the wall (suitable just for the size of the wall conduit), then set on the fittings such as the wall conduit and 2 Bind the connecting pipe and the cables together tightly with Pass the bound connecting pipe through the wall conduct from outside. Be careful of the pipe allocation to do on Connect the pipes. Refer to "How to Connect the pipes" for Expel the air with a vacuum pump. Refer to "How to expel the open the stop values of the outdoor unit to make the refrigerant pipe connecting the indoor unit with the outdoor Check the leakage. Check all the joints with the leak detector Cover the joints of the connecting pipe with the soundproof /

parts of the flare pipe joints and refrigerant pipe on the

liquid-side and the gas-side. Ensure that there is no gap

Tightening torque N.M (Turn clockwise to close) e size Shaft (valve body) (Valve lid) Maintenance nu Bend the tubing in proper way. Do not harm to them. Bend the pipe with thumb 200 Pm Ø15.9 min-radius 100mm Fig.8-2 The bending angle should not exceed 90. Ø25.4 · Bending position is preferably in the middle of the bendable pipe. The larger the bending radius the better it Do not bend the pipe more than three times. Always use a charge hose for service port connection. When connecting the flare nut, coat the flare both inside and outside with either oil or ester oil and initially tighten After tightening the cap, check that no refrigerant leaks by hand 3 or 4 turns before tighting firmly. arepresent. -+---/ Fia 8- Be sure to use both a spanner and torque wrench together when connecting or disconnecting pipes to /from the unit. (Fig.8-4)

2 Connect the indoor unit at first, then the outdoor

service port maintenance nut seal shaft hexagon hole Using the vacuum pump

Table 8

8.3 Additional Refrigerant Charge The outdoor unit is factory charged with refrigerant. Some systems require additional charging of refrigerant depending

meeting fire.

Centrifugal fan outdoor unit

a) In case that suspending in the ceiling

5.2 Install the main body

(Refer to Fig.5-2)

drainpipe and cables.

The existing ceiling (to be horizontal)

that of the air conditioner body.

enforce the ceiling when necessary.

1 Cut a quadrangular hole of 880x880mm in the ceiling

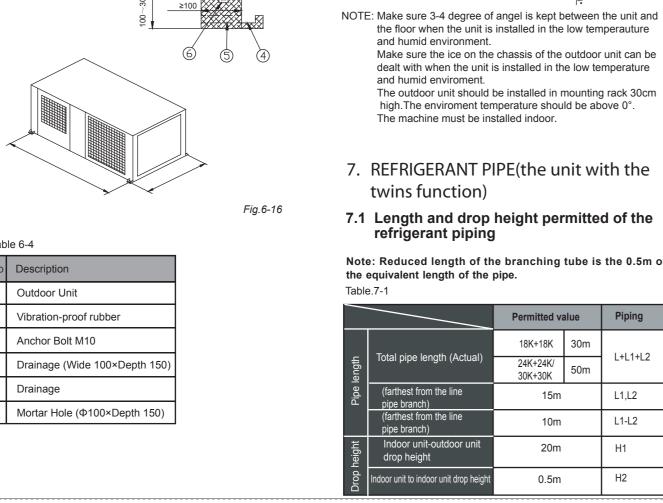
• The center of the hole should be at the same position of

• Determine the lengths and outlets of the connecting pipe,

• To balance the ceiling and to avoid vibration, please

according to the shape of the installation paper board.

Fig.6-14
 6.5 Moving and installation Since the gravity center of the unit is not at its physica center, so please be careful when lifting it with a sling.
 Never hold the inlet of the outdoor unit to prevent it from deforming.
 Do not touch the fan with hands or other objects. Do not lean it more than 45[°], and do not lay it sidelong.
 Make concrete foundation accoding to the sepecif-ications of the outdoor units. (Refer to Fig.6-15)
• Fasten the feet of this unit with bolts firmly to prevent it from collapsing in case of earthquake or strong wind.(<i>Refer to Fig.6-15</i>)
· · ·



11. TEST OPERATION

conditioner.

Test operation

1) The indoor unit

and indoor units.

reach the indoor unit smoothly.

"Troubleshooting" in the "Owner's Manual".

a. Whether the switch on the remote controller works well.

b. Whether the buttons on the remote controller works

c. Whether the air flow louver moves normally.

f. Whether the temporary buttons works well.

e. Whether the indicator lights normally.

g. Whether the drainage is normal.

d. Whether the room temperature is adjusted well.

h. Whether there is vibration or abnormal noise during

I. Whether the air conditioner heats well in the case of the

installation has been completed.

The drainage is unimpeded.

• The heating insulation works well.

1 The test operation must be carried out after the entire

Please confirm the following points before the test operation:

• The indoor unit and outdoor unit are installed properly.

The length of the tubing and the added stow capacity of

• The power voltage fits the rated voltage of the air

There is no obstacle at the outlet and inlet of the outdoor

The gas-side and liquid-side stop valves are both opened.

• The air conditioner is pre-heated by turning on the power.

controller frame where the remote controller's signal can

Set the air conditioner under the mode of "COOLING" with the

remote controller, and check the following points. If there is

any malfunction, please resolve it according to the chapter

3 According to the user's requirement, install the remote

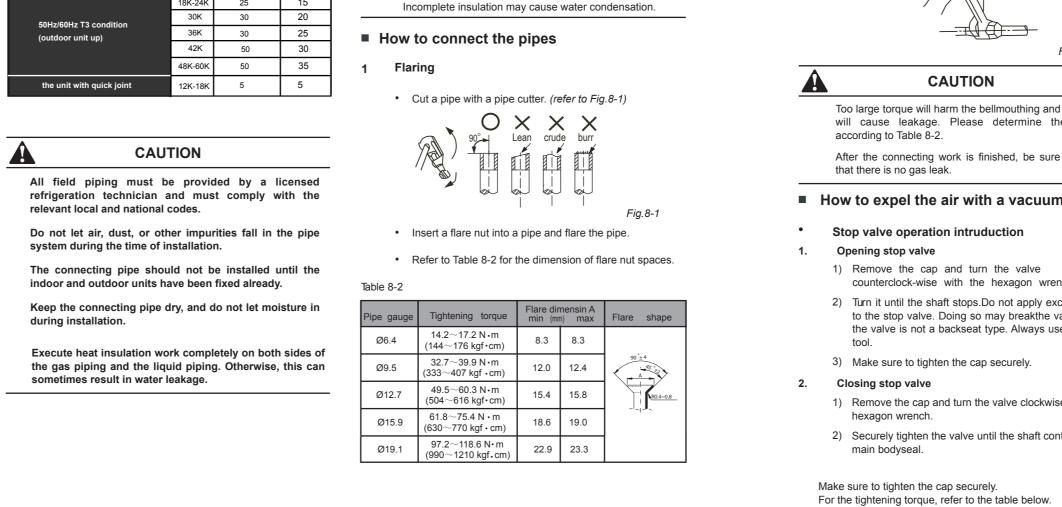
Tubing and wiring are correctly completed.

• The ground wiring is connected correctly.

the refrigerant have been recorded.

• The refrigerant pipe system is leakage-checked.

d	3) Make sure the vacuum pump could result as -0.1MPa or below after 2 hrs or above operation. If the pump operated 3 hrs or above could not achieve to -0.1MPa or below, please check whether water mix or gas leak inside of the pipe.	
e	Connect with vacuum pump	A direction view Wrong Correct
n	Perform the pump (last for 2 hrs or above)	
	When get the vacuum level -0.1MPa, the pump should keep running for 20-60 mins 	Horizontal surface
1	Shut down the vaccun pump	
of	Place the vaccum state unused (1 hrs or above) Fig.7-2	
	CAUTION	
	 Don't mix up the different refrigerants or abuse the tools and measurements which directly contact with refrigerants. 	
	Don't adopt refrigerant gas for air vacuuming.	
-	If vacuum level could not get to -0.1MPa, please check whether resulted by leakage and confirm the leakage site.If no leakage, please operate the vacuum pump again 1 or 2 hrs.	



between them.

	Fig.8-4	1	Loosen and remove the maintenance nuts of stop valves A and B, and connect the charge hose of the manifold valve to the service port of stop valve A. (Be sure that stop valves A and B are both closed)
Â	CAUTION	2	Connect the joint of the charge hose with the vacuum pump.
wi	o large torque will harm the bellmouthing and too small Il cause leakage. Please determine the torque cording to Table 8-2.	3 4	Open the Lo-lever of the manifold value completely. Turn on the vacuum pump. At the beginning of pumping,
Af	ter the connecting work is finished, be sure to check at there is no gas leak.	7	loosen the maintenance nut of stop valve B a little to check whether the air comes in (the sound of the pump changes, and the indicator of compound meter turns below zero). Then
Hov	v to expel the air with a vacuum pump	5	fasten the maintenace nut. When the pumping has finished, close the Lo-lever of the
	op valve operation intruduction pening stop valve		manifold valve completely and turn off the vacuum pump.Make pumping for 15 minutes or more and check that the compound meter indicates -76cmHg(-1X10 ⁵ Pa)
1)	Remove the cap and turn the valve counterclock-wise with the hexagon wrench.	6	Loosen and remove the cap of stop valves A and B to open
2)	Turn it until the shaft stops.Do not apply excessive force to the stop valve. Doing so may breakthe valve body, as the valve is not a backseat type. Always use the special tool.	7	stop valve A and B completely, then fasten the cap. Disassemble the charge hose from the service port of stop valve A, and fasten the nut.
3)	Make sure to tighten the cap securely.		
C	losing stop valve		Outdoor
1)	Remove the cap and turn the valve clockwise with the hexagon wrench.		
2)	Securely tighten the valve until the shaft contacts the main bodyseal.		

Stop valve

systems require additional charging of refrigerant depending on pipe lengths. The additional refrigerant to be charged can be calculated from the following formule:	immerse it in water. If you discharge the water directly into sewage, be sure to make a U-form aquaseal by bending the pipe up to prevent the smelly gas entering the house through the drain pipe.
R22: (Pipe length-5m)x30g/m R410A: Liquid side:φ6.35 (Pipe length - 5m)x15g/m Liquid side:φ9.52 (Pipe length - 5m)x30g/m	 Drainage test Check whether the drainpipe is unhindered. New built house should have this test done before paving the ceiling.
	1 Remove the test cover, and stow water of about 2000ml to the water receiver through the stow tube.
CAUTION Refrigerant cannot be charged until field wiring has been completed.	2 Turn on the power, and operate the air conditioner under the "COOLING" mode. Listen to the sound of the drain pump. Check whether the water is discharger well (a lag of 1min is allowed before discharging, according to the length of the drain pipe), and check whether water leaks from the joints.
Refrigerant may only be charged after performing the leak test and the vacuum pumping.	3 Stop the air conditioner, turn off the power, and reset the test cover to its original position.
When charging a system, care shall be taken that its	
maximum permissible charge is never exceeded, in view of the danger of liquid hammer.	♥ NOTE
Charging with an unsuitable substance may cause explosions and accidents, so always ensure that the appropriate refrigerant is charged.	The drain plug is used to empty the water-receiver for maintenance of the air conditioner. Please stuff it imposition at all times during operation to avoid leakage.
Refrigerant containers shall be opened slowly.	

kemgeran iers shall be opened slowly. Always use protective gloves and protect your eyes when charging refrigerant.

Power supply Power supply

installation manual

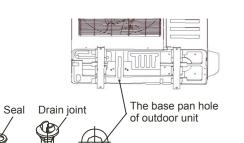
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Fig.10-6

installation manual



Remark per EMC Directive 2004/108/EC Fit the seal into the drain joint, then insert the drain joint into the base pan hole of outdoor, rotate 90° to securely assemble them. compressor (technical process), following installation Connect the drain joint with an extension drain hose (Locally conditions do apply. purchased), in case of the condensate draining off the outdoor



unit during the heating mode.

The base pan

of outdoor unit

Install the drain joint of the outdoor unit

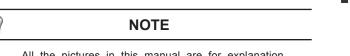
impedance reaches at a 32 A fusing point. 2 No other equipment has to be connected with this power 3 For detailed installation acceptance please refer to your power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens. 4 For power details of the air conditioner refer to the rating

plate of the product. 5 For any question contact your local dealer.

10.1 Connect the cable

Protection board

NOTE



ioint

protection board. (Refer to Fig.10-1) All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased(depend on model).The actual shape shall prevail. of indoor and outdoor units.

10. WIRING

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

The air conditioner should use separate power supply with rated voltage. The external power supply to the air conditioner should

have ground wiring, which is linked to the ground wiring

of the indoor and outdoor unit. The wiring work should be done by qualified persons according to circuit drawing.

An all-pole disconnection device which has at least 3mm sepaaration distance in all pole and a residual current device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national

Be sure to locate the power wiring and the signal wring Vertical discharge type outdoor unit well to avoid cross-disturbance.

Centrifugal fan outdoor unit For to prevent flicker impressions during the start of the 1 The power connection for the air conditioner has to be done at the main power distribution. The distribution has to be of a low impedance, normally the required

installation manual

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Table 6-4

Drainage

Protection Board

Dissemble the bolts from the cover.(If there isn't a cover on

the outdoor unit, disassemble the bolts from the maintenance NOTE board, and pull it in the direction of the arrow to remove the All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased(depend on model). The Connect the connective cables to the terminals as identified actual shape shall prevail. with their respective mached numbers on the terminal block Re-install the cover or the protection board. 10.2 The Specification of Power (Refer to Table10-1~Table10-8)

The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube. 10.3 Wiring figure (Refer to Fig.10-1 \sim Fig.10-8)

Fig.10-1

installation manua

10.4 Outdoor unit 1. Remove the electric parts cover from the outdoor unit. 2. Connect the connective cables to the terminals as identified with their respective matched numbers on the terminal block

HEATING/COOLING type. of indoor and outdoor units. (Connective cable sheath length to be removed and insert into the terminal block.) The outdoor unit a. Whether there is vibration or abnormal noise during 3. To prevent the ingress off water, from a loop of the operat connective cable as illustrated in the installation diagram of b. Whether the generated wind, noise, or condensed of by indoor and outdoor units. the air conditioner have influenced your neighborhood. c. Whether any of the refrigerant is leaked. 4. Insulate unused cords (conductors) with PVC-tape. Process them so they do not touch any electrical or metal parts.

Fig.9-3

Table 10-1

The Specification of Power(indoor power supply)

MODEL		18	24	30~36	42~48	60
	PHASE	1Phase	1Phase	1Phase	1Phase	1Phase
POWER	FREQUENCY AND VOLT	208-240V	208-240V	208-240V	208-240V	208-240V
CIRCUI	BREAKER/FUSE(A)	20/16	40/25	50/30	60/45	60/50

Table 10-2

MODEL		30~36	42~60	30~36	42~60
	PHASE	3Phase	3Phase	3Phase	3Phase
POWER	FREQUENCY AND VOLT	380-420 V	380-420 V	208-240V	208-240V
CIRCUIT	BREAKER/FUSE(A)	25/20	25/20	40/25	45/35

The Specification of Power(outdoor power supply)

Table 10-3

MODEL		24	30~36	42~48	60
POWER	PHASE	1Phase	1Phase	1Phase	1Phase
	FREQUENCY AND VOLT	208-240V	208-240V	208-240V	208-240V
CIRCUIT BREAKER/FUSE(A)		40/30	60/40	70/55	70/60

Table 10-4

	MODEL		42~60	30~36	42~60
	PHASE	3Phase	3Phase	3Phase	3Phase
POWER	FREQUENCY AND VOLT	380-420 V	380-420 V	208-240V	208-240V
CIRCUIT	BREAKER/FUSE(A)	25/20	25/20	40/25	45/35

The Specification of Power(independence power supply)

l	MODEL	18	24	30~36	42~48	60
POWER	PHASE	1Phase	1Phase	1Phase	1Phase	1Phase
(indoor)	FREQUENCY AND VOLT	208-240 V	208-240V	208-240V	208-240V	208-240V
CIRCUIT BREAKER/FUSE(A)		20/16	20/16	20/16	20/16	20/16
POWER	PHASE	1Phase	1Phase	1Phase	1Phase	1Phase
(outdoor)	FREQUENCY AND VOLT	208-240 V	208-240V	208-240V	208-240V	208-240V
CIRCUIT	BREAKER/FUSE(A)	20/16	40/25	50/30	60/45	60/50

Table 10-8

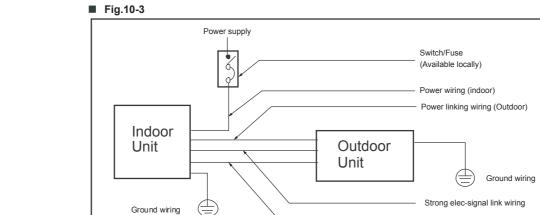
MODEL		30~36	42~60	30~36	42~60
POWER (indoor)	PHASE	1Phase	1Phase	1Phase	1Phase
	FREQUENCY AND VOLT	208-240V	208-240V	208-240V	208-240V
CIRCUIT BREAKER/FUSE(A)		20/16	20/16	20/16	20/16
POWER (outdoor)	PHASE	3Phase	3Phase	3Phase	3Phase
	FREQUENCY AND VOLT	380-420 V	380-420 V	208-240V	208-240V
CIRCUIT BREAKER/FUSE(A)		25/20	25/20	40/25	45/35

The Specification of Power for the invert type air conditioner(independence power supply)

Table 10-7										
MODEL		18	24	30~36	42~48	60				
POWER (indoor)	PHASE	1Phase	1Phase	1Phase	1Phase	1Phase				
	FREQUENCY AND VOLT	220-240 V	220-240V	220-240V	220-240V	220-240				
CIRCUIT BREAKER/FUSE(A)		15/10	15/10	15/10	15/10	15/10				
POWER (outdoor)	PHASE	1Phase	1Phase	1Phase	1Phase	1Phase				
	FREQUENCY AND VOLT	208-240 V	208-240V	208-240V	208-240V	208-240				
CIRCUIT BREAKER/FUSE(A)		30/20	30/20	40/30	40/35	50/40				

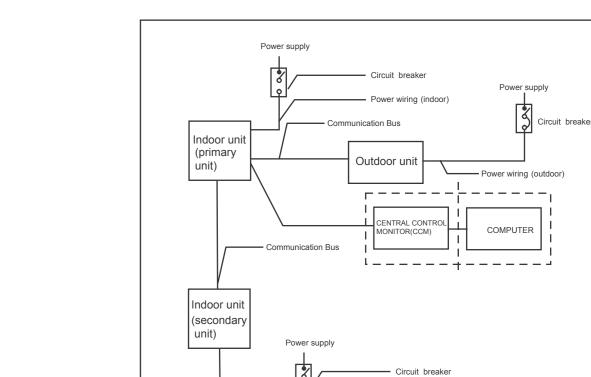
The power supply is included in the power supply above mentioned can be applied to the table. Wiring figure

Fig.10-4



Weak elec-signal link wiring • Ground the air conditioner properly in case to affect its anti-interference function

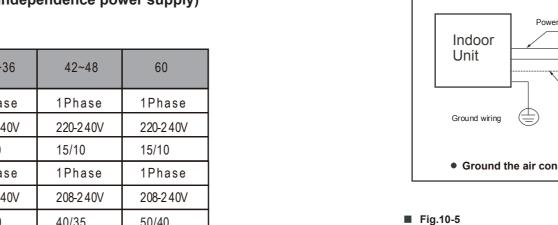




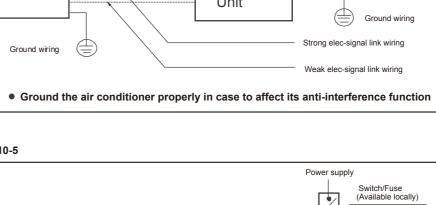
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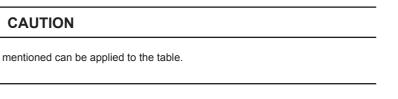
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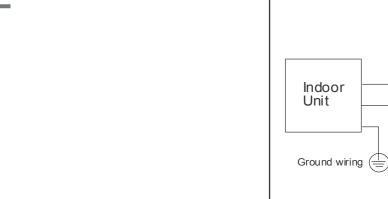
Table 10-6



Power supply Switch/Fuse (Available locally) Power wiring (outdoor) Outdoor Unit







Unit (≟) Ground wiring - Weak dec-signal link wiring • Ground the air conditioner properly in case to affect its anti-interference function

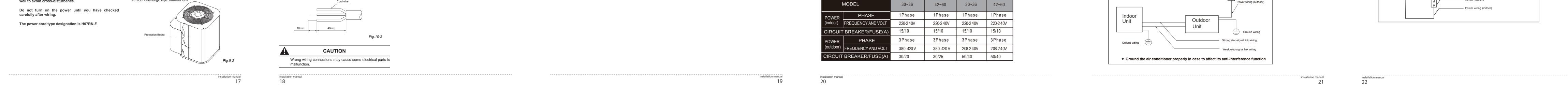
Outdoor

Switch/Fuse / (Available locally)

— Powerwiring (indoor)

– Power linking wiring (Outdoor)

Fig.10-7 (the figure is for the unit with the twins function)



QSQ4I-016AEN

Fig.10-8 (the figure is for the unit with the new fan function)

• the power of new fan motor is less than or equal to 200W

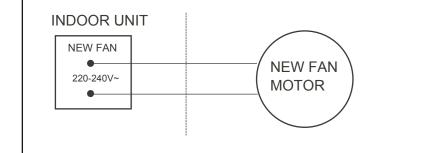
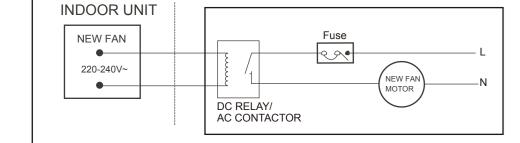


Fig.10-9 (the figure is for the unit with the new fan function)

• the power of new fan motor is more than 200W



The design and specifications are subject to change without prior notice for product improvement.Consult with the sales agency or manufacturer for details.

CAUTION

The wiring must be operated according to the wiring scheme, or it damages the unit.

Before obtaining access to terminals, all supply circuits must be disconnected.

