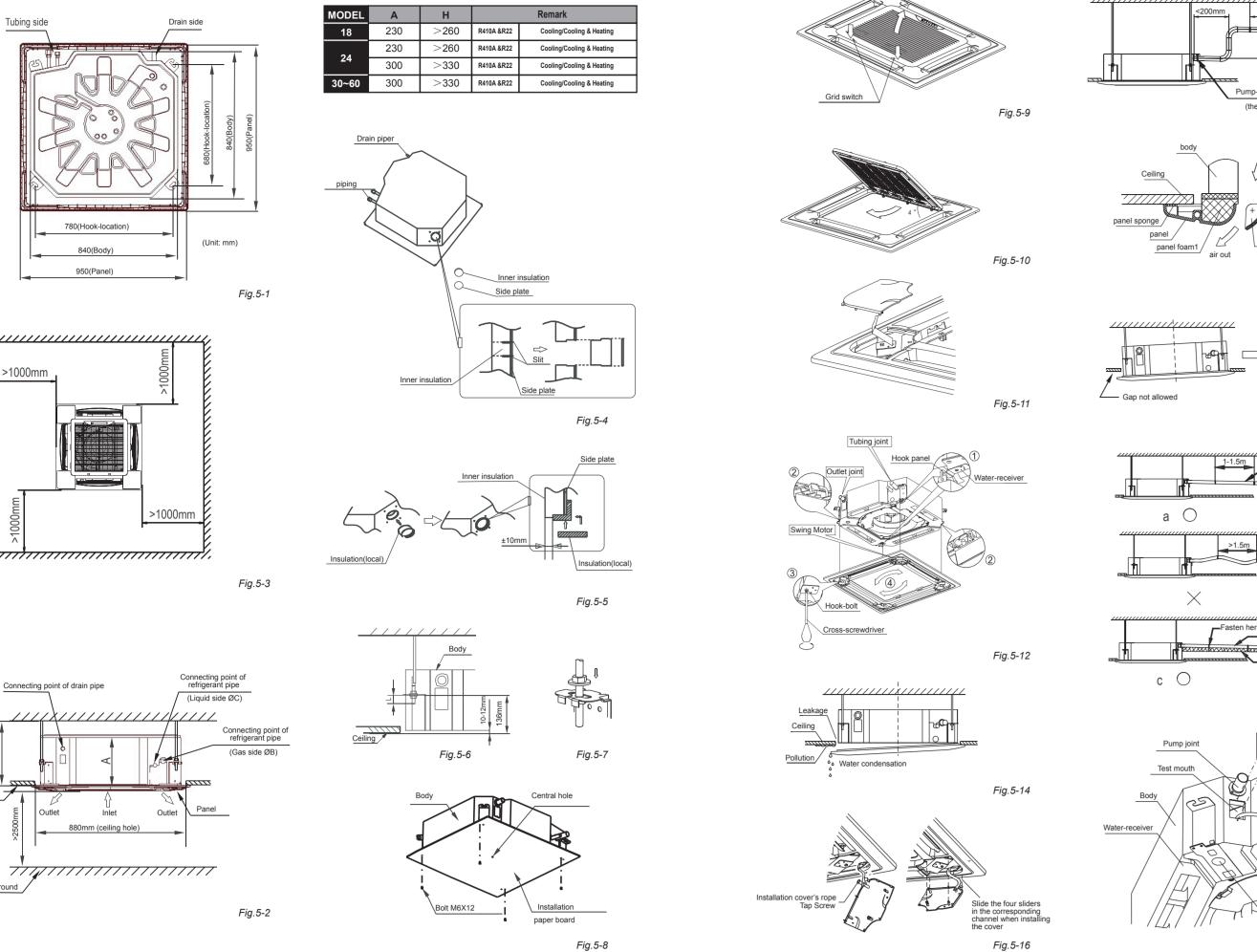
INSTALLATION MANUAL

Table 5-1

mm

Four-way Cassette Type



installation manual

installation manual

installation manual

12

then stick insulation material 3.

Install Duct (the rated diameter:Ø75)

wrap the joint to prevent air-leakage.

Flange

installing duct:

interface of duct.)

1 Connect the duct to the flange.(the flange is assembled with the

2 After connection, use the ethylene tape (provided on field) to

NOTE

2. The following phenomenon are not allowed when

A) Bend too much

Wrong

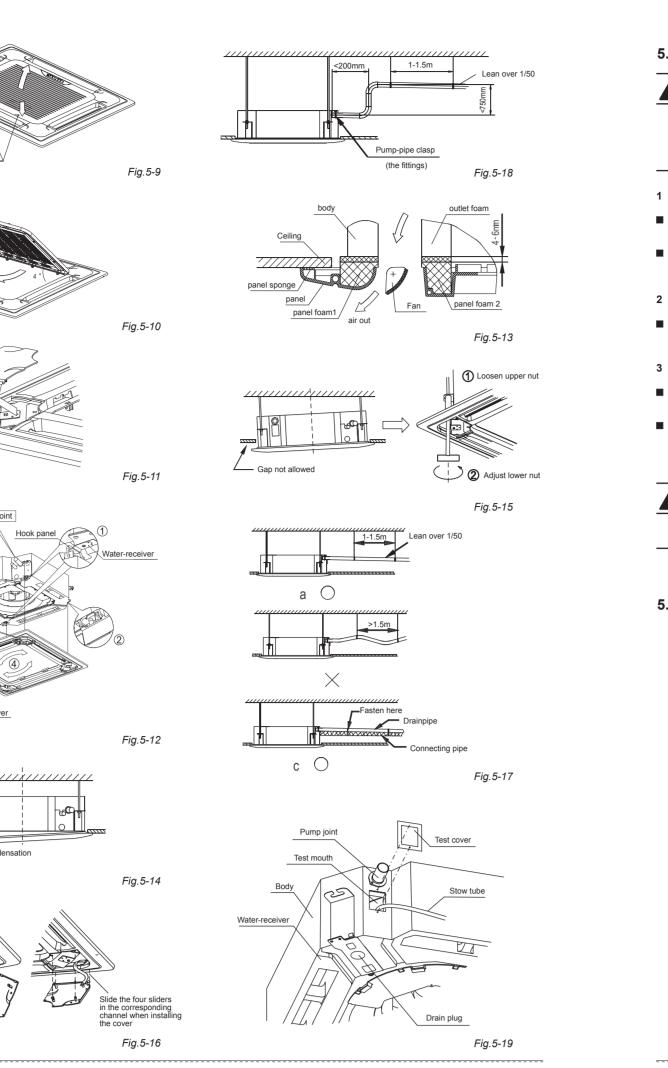
Wrong

B) Too many bender

C) diameter reduce

Wrong Fig.10-10

1. All ducts must be completely heat-insulated.



The length of The max

10

25 1

25 15

35

The appliance shall be installed in accordance with

The air conditioner should use separate power supply

The external power supply to the air conditioner should

have ground wiring, which is linked to the ground wiring

The wiring work should be done by qualified persons

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

Do not turn on the power until you have checked

NOTE

For to prevent flicker impressions during the start of the

compressor (technical process), following installation

1 The power connection for the air conditioner has to be

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

impedance reaches at a 32 A fusing point.

5 For any question contact your local dealer.

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

Connect the connective cables to the terminals as identified

the outdoor unit, disassemble the bolts from the maintenance

board, and pull it in the direction of the arrow to remove the

with their respective mached numbers on the terminal block

202000192506 2012.02.08

done at the main power distribution. The distribution has

to be of a low impedance, normally the required

The power cord type designation is H07RN-F.

Remark per EMC Directive 2004/108/EC

national wiring regulations.

of the indoor and outdoor unit.

according to circuit drawing.

well to avoid cross-disturbance.

carefully after wiring.

conditions do apply.

plate of the product.

11.1 Connect the cable

protection board.)

11.3 Wiring figure

(Refer to Fig.11-1~Fig.11-6)

of indoor and outdoor units.

Re-install the cover or the protection board.

11.2 The Specification of Power (Refer to Table11-1 \sim Table 11-8)

with rated voltage.

	Be sure only trained and qualified service personnel to install, repair or service the equipment.	Otherwise, it will cause fire or electrical shock. Carry out the specified installation work after taking int		
	Improper installation, repair, and maintenance may result in electric shocks, short-circuit, leaks, fire or other damage to the equipment.	account strong winds, typhoons or earthquakes. Improper installation work may result in the equipment fallin and causing accidents.		
		installation man		
5.4	Install The Panel	Adjust the four panel hook screws to keep the par horizontal, and screw them up to the ceiling evenly. (<i>Refer</i> Fig.5-12.3)		
	CAUTION Never put the panel face down on floor or against the	 Regulate the panel in the direction of the arrow in <i>Fig.5-12</i> slightly to fit the panel's center to the center of the ceiling opening. Guarantee that hooks of four corners are fixed well 		
	wall, or on bulgy objects. Never crash or strike it.	Keep fastening the screws under the panel hooks, until t thickness of the sponge between the body and the pane outlet has been reduced to about 4~6mm. The edge of the		
1 R	Remove the air-in grill.	 panel should contact with the ceiling well. (Refer to Fig.5-13) Malfunction described in Fig.5-14 can be caused 		
•	Slide two grill switches toward the middle at the same time, and then pull them up. (<i>Refer to Fig.5-9</i>)	If the gap between the panel and ceiling still exists af		
•	Draw the grill up to an angle of about 45 [°] , and remove it. (<i>Refer to Fig.5-10</i>)	fastening the screws, the height of the indoor unit show be modified again. (<i>Refer to Fig.5-15-left</i>)		
_	Remove the installation covers at the four corners	 You can modify the height of the indoor unit through t openings on the panel's four corners, if the lift of t indoor unit and the drainpipe is not influenced (Refer Fig 5.40 minut) 		
•	Wrench off the bolts, loose the rope of the installation covers, and remove them. (<i>Refer to Fig.5-11</i>)	Fig.5-16-right).4 Hang the air-in grill to the panel, then connect the least sector.		
3 Ir	nstall the panel	terminator of the swing motor and that of the control b with corresponding terminators on the body respectively.		
•	Align the swing motor on the panel to the tubing joints of the body properly. (<i>Refer to Fig.5-12</i>)	5 Relocate the air-in grill in the procedure of reversed order		
•	Fix hooks of the panel at swing motor and its opposite sides to the hooks of corresponding water receiver. (Refer to	6 Relocate the installation cover.		
	<i>Fig.5-12.1)</i> Then hang the other two panel hooks onto corresponding hangers of the body. (<i>Refer to Fig.5-12.2</i>)	Fasten the rope of installation cover on the bolt of t installation cover. (Refer to Fig.5-16-left)		
	CAUTION	Press the installation cover into the panel slightly. (Refer Fig.5-16-right)		
	Do not coil the wiring of the swing motor into the seal sponge.			
	sponge.			
5.5	Install the distribution duct Conditioned air can be distributes by means of a distribution	duct.		
		Fresh air intake (ф75)		
	A			

Install according to this installation instructions strictly. If installation is defective, it will cause water leakage,

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

Use the attached accessories parts and specified parts

otherwise, it will cause the set to fall, water leakage,

Install at a strong and firm location which is able to

If the strength is not enough or installation is not properly

Before obtaining access to terminals, all supply circuits

The appliance must be positioned so that the plug is

The enclosure of the appliance shall be marked by word,

For electrical work, follow the local national wiring

standard, regulation and this installation instructions. An

If electrical circuit capacity is not enough or defect in

Use the specified cable and connect tightly and clamp

the cable so that no external force will be acted on the

If connection or fixing is not perfect, it will cause heat-up or

Wiring routing must be properly arranged so that control

If control board cover is not fixed perfectly, it will cause

heat-up at connection point of terminal, fire or electrical

If the supply cord is damaged, it must be replaced by the

An all-pole disconnection switch having a contact

separation of at least 3mm in all poles should be

When carrying out piping connection, take care not to let

Otherwise, it will cause lower capacity, abnormal high

Do not modify the length of the power supply cord or use

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

pressure in the refrigeration cycle, explosion and injury.

air substances go into refrigeration cycle.

manufacture or its service agent or a similarly qualified

independent circuit and single outlet must be used.

electrical work, it will cause electrical shock or fire.

or by symbols, with the direction of the fluid flow.

The appliance must be installed 2.3m above floor.

The appliance shall not be installed in the laundry.

electrical shock and fire.

deficiency.

for installation.

electrical shock and fire.

withstand the set' s weight.

must be disconnected.

accessible.

terminal.

shock

fire at the connection.

board cover is fixed properly.

person in order to avoid a hazard.

connected in fixed wiring.

other electrical appliances.

done, the set will drop to cause injury.

PAGE

CONTENTS

PRECAUTIONS....

WIRING

INSTALLATION INFORMATION......

ATTACHED FITTINGS......

INDOOR UNIT INSTALLATION......

OUTDOOR UNIT INSTALLATION

INSTALL THE CONNECTING PIPE

INSTALLATION OF FLANGE AND DUCT

Keep this manual where the operator can easily find them.

For safety reason the operator must read the following

The safty precautions listed here are divided into two categories.

WARNING

CAUTION

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

WARNING

the owner's manual for future reference.

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

If you do not follow these instrutions exactly, the unit may

cause property damage, personal injury or loss of life.

If you do not follow these instrutions exactly, the unit may

cause minor or moderate property damage, personal

Read this manual attentively before starting up the units.

CONNECT THE DRAIN PIPE.....

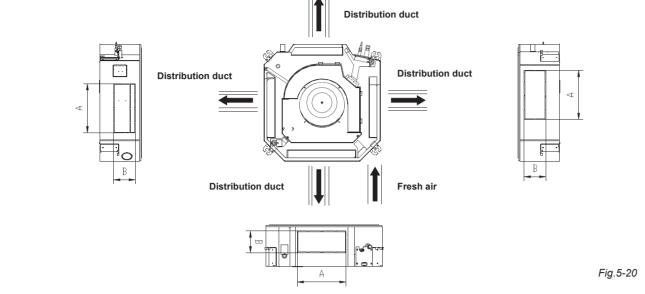
CONNECTIVE DIAGRAM......

TEST OPERATION......

1. PRECAUTIONS

cautions carefully.

INSPECTING AND HANDLING THE UNIT



e refrigerant leaks during installation, ventilate the immediately.	2. INSTALLATION INFORMATION
gas may be produced if the refrigerant comes into the	

3. ATTACHED FITTINGS

INSTALLATION FITTINGS

Tubing & Fittings

Drainpipe Fittings

Remote controller & Its Frame

Installation accessory

(The product you have might not be

provided the following accessory)

6.2 Figure of body size

-

30~36

48

646 138

Prepare a polyviny chloride with 21mm inner diameter

a DOWN-SLOPE pitch of 1/25 to 1/100

Connect a siphon, as shown in figure below

8. CONNECT THE DRAIN PIPE

market or from your dealer.

Install the drainpipe of the indoor unit

You can use a polyethylene tube as the drainpipe

• Set the mouth of the drainpipe onto the root of the body's

(fittings) together firmly with the out-let pipe clasp (fitting).

• The body's pump pipe and the drainpipe (especially the

prevent condensation caused by entered air.

Refer to Fig.5-17.a in the figure page)

it.(Refer to Fig.5-17.c in the figure page)

Fig.5-18 in the figure page)

the drain pipe.

Table 11-5

Table 11-7

MODEL

PHASE

indoor) FREQUENCY AND VOL

CIRCUIT BREAKER/FUSE(A)

pump-pipe, and clip the drainpipe and the out-let pipe sheath

indoor part) should be covered evenly with the out-let pipe

sheath (fittings) and be bound tightly with the constrictor to

To prevent water from flowing backwards into the air

conditioner while the air conditioner stops, please lean the

drainpipe down toward outdoor (outlet-side) at a degree of

over 1/ 50. And please avoid any bulge or water deposit. (

prevent the body from being pulled. Meanwhile, one

supportpoint should be set every 1~1.5m to prevent the

drainpipe from yielding (Refer to Fig.5-17a in the figure page).

Or you can tie the drainpipe with the connecting pipe to fix

In the case of prolonged drainpipe, you had better tighten its

• If the outlet of the drainpipe is higher than the body's pump

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

indoor part with a protection tube to prevent it from loosing.

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. (Refer to

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

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 Specification of Power(independence power supply)

Do not drag the drainpipe violently when connecting to

(out-dia.37-39mm, in-dia.32mm). It could be bought at local

• Fasten the tube to the drain hose with an adhesive and the

field-supplied clamp. The drain piping must be performed with

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

NAME

1. Installation paper board

2. Soundproof / insulation sheath

3. Connecting pipe group

4. Out-let pipe sheath

5. Out-let pipe clasp

Drain joint

7. Seal ring

8. Remote controller(on some models)

9. Remote controller holder (on some models)

10 Mounting screw(ST2.9×10-C-H)

11. Alkaline dry batteries (AM4)

12. Owner's manual

13. Installation manual

14. Expansible hook

15. Installation hook

16 .Orifice(on some models)

SHAPE

Q

 \bigcirc

& June

QUANTITY

1

1

1

1

If the refrigerant leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant comes into the	2. INSTALLATION INFORMATION		
place contacting with fire. The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.	 To install properly, please read this "installation manual" a first. The air conditioner must be installed by qualified persons. 		
After completing the installation work, check that the refrigerant does not leak.	When installing the indoor unit or its tubing, please follow this manual as strictly as possible.		
Toxic gas may be produced if the refrigerant leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.	If the air conditioner is installed on a metal part of th building, it must be electrically insulated according to th relevant standards to electrical appliances.		
CAUTION	When all the installation work is finished, please turn of the power only after a thorough check.		
Ground the air conditioner.	Regret for no further announcement if there is any chang of this manual caused by product improvement.		
Do not connect the ground wire to gas or water pipes,			
lightning rod or a telephone ground wire. In appropriate grounding may result in electric shocks.			
De sure te install en south leskage brasker	INSTALLATION ORDER		
Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks.	 Select the location; 		
	Install the indoor unit;		
Connect the outdoor unit wires , then connect the indoor unit wires. You are not allowed to connect the air conditioner with the	 Install the outdoor unit; 		
power supply until the wiring and piping is done.	Install the connecting pipe ;		
While following the instructions in this installation	 Connect the drain pipe; 		
manual, install drain piping in order to ensure proper drainage and insulate piping in order to prevent condensation.	■ Wiring;		
Improper drain piping may result in water leakage and property damage.	 Test operation. 		
Install the indoor and outdoor units, power supply wiring and connecting wires should be at least 1 meter away from televisions or radios in order to prevent image interference or noise. Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.			
The appliance is not intended for use by young children or infirm persons without supervision.			
Don't install the air conditioner in the following circumstance:			
There is petrolatum existing.			
There is salty air surrounding (near the coast).			
There is caustic gas (the sulfide, for example) existing in the air (near a hot spring).			
The Volt vibrates violently (in the factories).			
In buses or cabinets.			
In kitchen where it is full of oil gas.			
There is strong electromagnetic wave existing.			
 There are inflammable materials or gas. 			
 There is acid or alkaline liquid evaporating. 			

installation manual

6. OUTDOOR UNIT INSTALLATION NOTE model 18 to 24 Series A=350mm; Series B=85mm 6.1 Installation Place model 36 to 48 Series A=350mm; Series B=155mm The outdoor unit should be installed in the location that _____ meets the following requiements: There is enough room for installation and maintenance. • The air outlet and the air inlet are not impeded, and can not be reached by strong wind. It must be a dry and well ventilating place. • The support is flat and horizontal and can stand the

Two-way

In case of one duct connection

In case of two duct connection

18 to 24 unit.

36 to 48 unit.

be sealed.

installation manual

installation manual

Fig.7-5

Fig.7-6

installation manual

The max. length of duct is 2m.

be sealed In case of two duct connection.

to 24 unit.

to 48 unit.

weight of the outdoor unit. And will no additional noise or vibration. • Your neighborhood will not feel uncomfortable with the noise or expelled air. It is easy to install the connecting pipes or cables. AUT 30/36/45/54L • Determine the air outlet direction where the discharged air is not blocked. There is no danger of fire due to leakage of inflammable

> gas. The piping length between the outdoor unit and the indoor unit may not exceed the allowable piping length. In the case that the installation place is exposed to strong wind such as a seaside, make sure the fan operating

properly by putting the unit lengthwise along the wall or using a dust or shield.(Refer to Fig.6-1) • If possible, do not install the unit where it is exposed to direct sunlight. If necessary, install a blind that does not interfere with the

air flow. Fia.5-2 • During the heating mode, the water drained off the outdoor unit ,The condensate should be well drained away by the drain hole to an appropriate place, so as not to interfere other people.

 Select the position where it will not be subject to snow The air volume in duct is around 300-360m3/h for model 18 drifts, accumulation of leaves or other seasonal debris. If unavoidable, please cover it with a shelter. The air volume in duct is around 400-640m3/h for model 36 Locate the outdoor unit as close to the indoor unit as

possible. • If possible, please remove the obstacles nearby to prevent the performance from being impeded by too little The original air outlet with the same direction of duct should of air circulation.

• The minimum distance between the outdoor unit and 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 The air volume in one duct is around 200-260m3/h for model directions.(Refore to Fig.6-4, Fig.6-5) The air volume in one duct is around 300-500m3/h for model

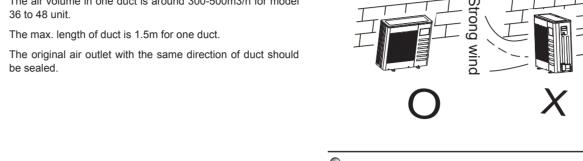


Fig.6-1 NOTE All the figures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased. The actual unit shall prevail.

1. Split type outdoor unit Fig.6-2 2. Vertical discharge type outdoor unit Fig.6-3 шОΩ

Table 6-1

MODEL A B C D E F H REMARK 530 290 315 270 282 593 Fig.6-2 290 315 270 282 593 Fig.6-2 335 360 312 324 695 Fig.6-2 582 368 390 328 340 660 Fig.6-2 333 355 302 313 862 Fig.6-2 366 396 340 354 966 *Fig.6-2* 24 366 396 340 354 966 *Fig.6-2* 3. Centrifugal fan outdoor unit 333 355 302 313 862 Fig.6-2 4 366 396 340 354 966 Fig.6-2 600 376 400 340 360 1245 Fig.6-3 366 396 340 354 966 Fig.6-2 600 376 400 340 360 1245 *Fig.6-3* 624 366 396 340 354 966 *Fig.6-2* 600 376 400 340 360 1245 Fig.6-3 590 378 400 330 340 1167 Fig.6-3 600 376 400 340 360 1245 Fig.6-3 590 378 400 330 340 1167 *Fig.6-3* Table 6-3 Fig.6-5 1. Split type outdoor unit

4. INSPECTING AND HANDLING THE UNIT **5.3** Install the main body At delivery, the package should be checked and any damage should The existing ceiling (to be horizontal) be reported immediately to the service agent. 1 Cut a quadrangular hole of 880x880mm in the ceiling When handling the unit, take into account the following: according to the shape of the installation paper board. (Refer to Fig.5-2) 1 Fragile, handle the unit with care. The center of the hole should be at the same position of that of the air conditioner body. $\frac{1}{2}$ Keep the unit upright in order to avoid compressor · Determine the lengths and outlets of the connecting pipe, damage drainpipe and cables. 2 Choose on before hand the path along which the unit is to be • To balance the ceiling and to avoid vibration, please brought in. enforce the ceiling when necessary. 3 Move this unit as originally package as possible. 2 Select the position of installation hooks according to the hook holes on the installation board. 4 When lifting the unit , always use protectors to prevent belt • Drill four holes of Ø12mm, 45~50mm deep at the selected damage and pay attention to the position of the unit's centre positions on the ceiling. Then embed the expansible of gravity. hooks (fittings). • Face the concave side of the installation hooks toward the expansible hooks. Determine the length of the installation unnecessary part. 5. INDOOR UNIT INSTALLATION · If the ceiling is extremely high, please determine the 5.1 Installation place (Refer to Fig.5-1, Fig.5-2, Fig.5-3 and Table 5-1 for specification.) evenly, to ensure the balance of the body. The indoor unit should be installed in a location that meets the following reauirements: • There is enough room for installation and maintenance. • The ceiling is horizontal, and its structure can endure the Fig.5-6). weight of the indoor unit. • In general, L is half of the screw length of the installation • The outlet and the inlet are not impeded, and the hook.(Refer to Fig.5-6) influence of external air is the least. • Locate the air conditioner firmly by wrenching the nuts The air flow can reach throughout the room. after having adjusted the body's position well.(Refer to Fig.5-7) The connecting pipe and drainpipe could be extracted out easily. New built houses and ceilings • There is no direct radiation from heaters. 1 In the case of new built house, the hook can be embedded in advance (refer to 2 mentioned above). But it should be CAUTION strong enough to bear the indoor unit and will not become loose because of concrete shrinking. Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions After installing the body, please fasten the installation paper and radios. This is to prevent image interference and board onto the air conditioner with bolts(M6X12) to noise in those electrical appliances. (Noise may be determine in advance the sizes and positions of the hole generated depending on the conditions under which the opening on ceiling.(Refer to Fig.5-8) electric wave is generated, even if 1 meter is kept.) • Please first guarantee the flatness and horizontal of ceiling when installing it. 5.2 Installation procedures for fresh air • Refer to 1 mentioned above for others. intake duct connection 3 Refer to 3 above for installation. Preparing the connection hole • Cut off the knockout hole on the side plate with a nipper. • Cut the inner insulation of the hole portion with a cutter. CAUTION (Refer to Fig.5-4) Placing the insulation Put the insulation tightly around the hole of the unit as shown grounded well. The ends of the side plate and the inner insulation must be completely adhered without leaving any clearance along the circumference of the hole.

installation manual

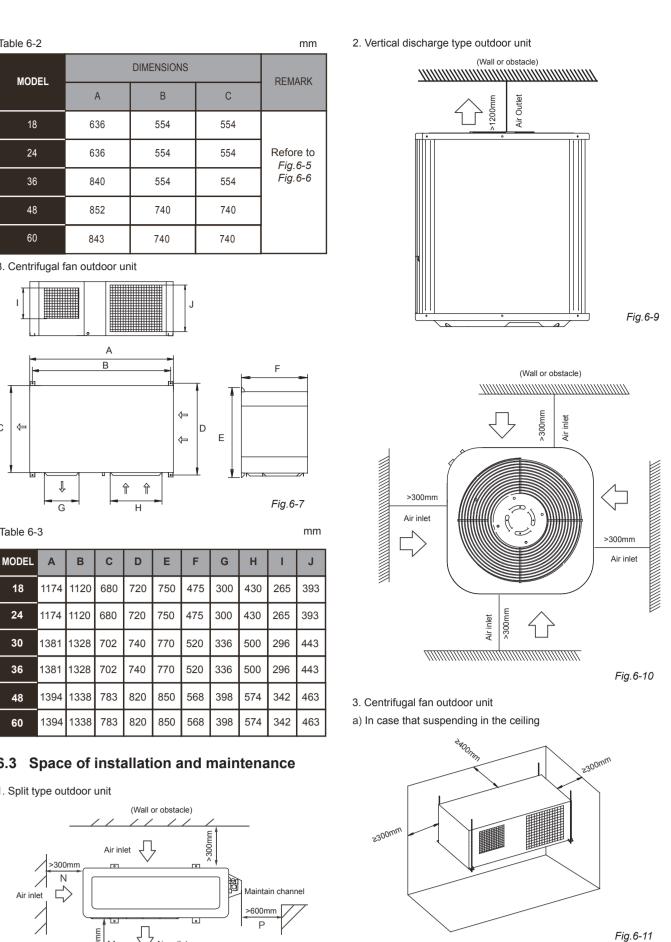


Fig.7-11

Drainage test

the ceiling.

cover to its original position.

unit during the heating mode.

Drain joint

joint

NOTE

42~48

42~60

All the figures in this manual are for explanation

purpose only. They may be slightly different from the air

conditioner you purchased. The actual unit shall prevail.

installation manual

Ð

The base pan

of outdoor unit

30~36

1Phase 1Phase 1Phase 1Phase 1Phase

20/16 20/16 20/16 20/16 20/16

1Phase 1Phase 1Phase 1Phase 1Phase

208-240 V 208-240 V 208-240 208-240 208-240 V

30~36

1Phase 1Phase

20/16 40/25 50/30 60/45 60/50

24

42~60

1Phase

Ø

figure page)

Check whether the drainpipe is unhindered.

pipe), and check whether water leaks from the joints.

NOTE

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.

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.

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.

Connect the drain joint with an extension drain hose (Locally

purchased), in case of the condensate draining off the outdoor

The base pan hole

of outdoor unit

Install the drain joint of the outdoor unit

New built house should have this test done before paving

Remove the test cover, and stow water of about 2000ml to the

Fia 6-4

10

installation manual

installation manua

Fig.6-6

hooks from the height of ceiling, then cut off the

length of the installation hook according to facts. 3 Adjust the hexangular nuts on the four installation hooks

• If the drainpipe is awry, leakage will be caused by the malfunction of the water-level switch.

• Adjust the position to ensure the gaps between the body and the four sides of ceiling are even. The body's lower part should sink into the ceiling for 10~12 mm (Refer to

4 Remove the installation paper board.

After installing the body, the four bolts(M6x12)must be fastened to the air conditioner onto ensure the body is

Make sure the inner surface of insulation tightly contacts the inner insulation edge and the side plate. (Refer to Fig.5-5)

installation manual - 4

Table 6-2

338 783 820 850 568 398 574 342 463
 38
 783
 820
 850
 568
 398
 574
 342
 463
 6.3 Space of installation and maintenance

Cooling only

Fig. 9-1

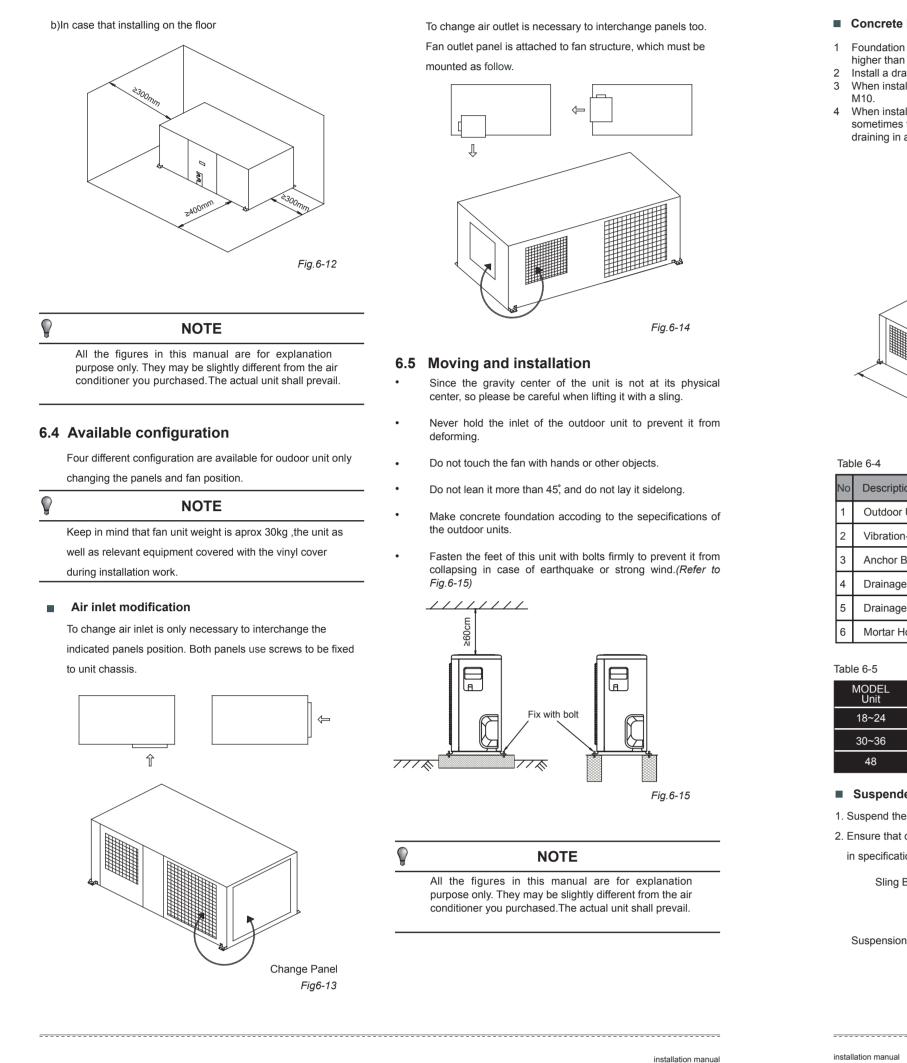
Liquid side

Indoor - Dutdoor

Indoor

Indoor

Fig. 9-3



Installation Type 2

Refrigerant Pipe

2 Stick insulation material 4 at indoor hole

Installation Type 1

Insulation Material(Inside

Installation Type 1

Edge

About 10mm

The hole is oppose to refrigerant pipe

Board

Removal with Pincher

Fig.10-4

Fig.10-5

Fig.10-6

installation manual

Commissure

No insulation material inside, only removal board

Put the insulation material 4 on the interface of the hole as shown in *Fig.10-9*, then sticl

Stick insulation material at the opening part of the board.

Insulation Material

with the inside insulation material and the board.

Ensure the interface of insulation material 4 closely contacts

Board

Insulation Mate

on the inside and surface of the board interface of the hole can not have gap

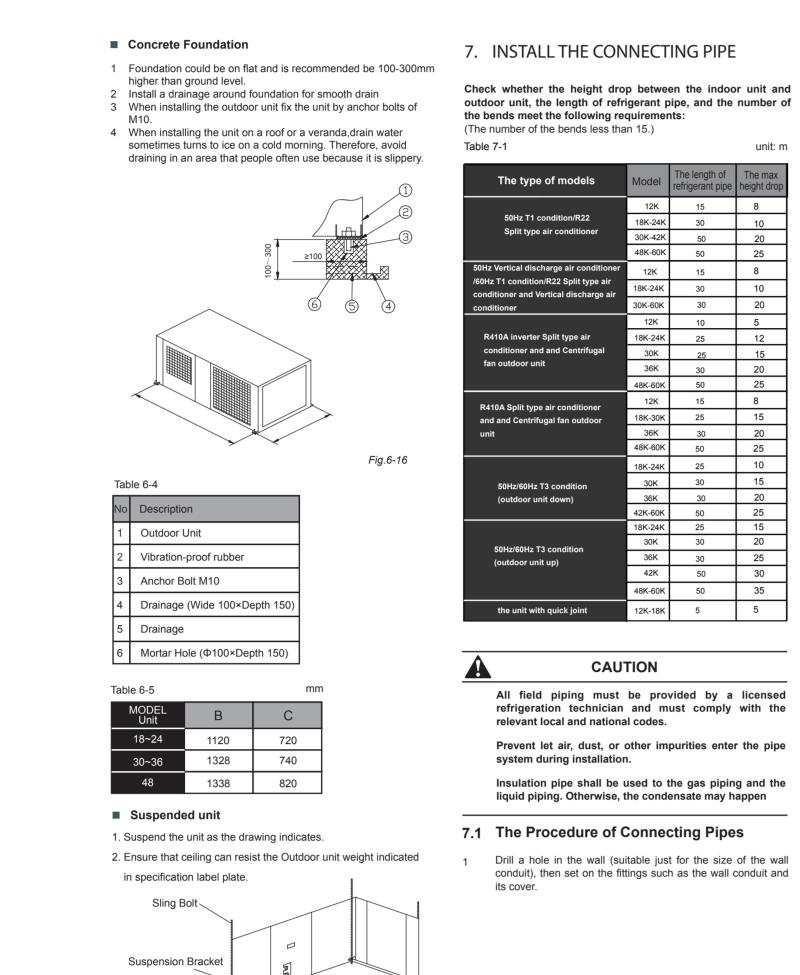


Fig.6-17

Insulation Material 3

Fig.10-7

Insulation Material 3

Fig.10-8

3 Use screw 2 (M4X12, 4 Pieces) to install flange at the hole, and 11. WIRING

(M4×12, 4 pieces)

Wrap the joint to prevent air-leakage

Airproof Adhesive Tape

Ø75 Duct(on field)

Fig.10-9

(M4×12, 4 pieces)

2 Bind the connecting pipe and the cables together tightly with **3** Remove the protection cover of stop valve binding tapes. Pass the bound connecting pipe through the wall conduct from outside. Be careful of the pipe allocation to do on damage to the tubing. 3 Connect the pipes. Refer to "How to Connect the pipes" for details. unit: n Gas Valve Fig.7-3 4 Expel the air with a vacuum pump. Refer to "How to expel the air with a vacuum pump" for details. 4 Connect the indoor unit at first, then the outdoor unit. 5 open the stop values of the outdoor unit to make the • Bend the tubing in proper way. Do not harm to them. refrigerant pipe connecting the indoor unit with the outdoor Bend the pipe with thumb unit in fluent flow. TAR 6 Check the leakage. Check all the joints with the leak detector or soap water. min-radius 100mm Fig. 7-4 • The bending angle should not exceed 90. 7 Cover the joints of the connecting pipe with the soundproof / insulating sheath (fittings), and bind it well with the tapes to Bending position is preferably in the middle of the prevent leakage. bendable pipe. The larger the bending radius the better it CAUTION Do not bend the pipe more than three times. Be sure to with insulating materials cover all the exposed When connecting the flare nut, coat the flare both inside parts of the flare pipe joints and refrigerant pipe on the and outside with either oil or ester oil and initially tighten liquid-side and the gas-side. Ensure that there is no gap by hand 3 or 4 turns before tighting firmly. between them. Incomplete insulation may cause water condensation. How to Connect the pipes 1 Flaring • Cut a pipe with a pipe cutter. (Refer to Fig.7-1) • Be sure to use both a spanner and torque wrench together when connecting or disconnecting pipes to /from $O \times \times \times$ the unit. Insert a flare nut into a pipe and flare the pipe. • Refer to Table 4 for the dimension of flare nut spaces. CAUTION Table 7-2 Too large torque will harm the bellmouthing and too small will cause Pipe gauge Tightening torque Flare dimensin A min (mm) Flare shape leakage. Please determine the torque according to Table 7-2. After the connecting work is finished, be sure to check that there is 15~16 N.m 8.3 8.7 no gas leak. 53~163 kgf.cm) 25~26N.m 12.0 12.4 How to expel the air with a vacuum pump (255~265 kgf.cm) 12.0 12.4 35~36 N.m 15.4 15.8 (357~367 kgf.cm) 45~47 N.m 250~470 N.m Stop valve operation introduction Opening stop valve 18.6 19.0 (459~480 kgf.cm) Ø15. 1. Remove the cap and turn the valve counterclock-wise with the hexagon wrench. 65~67N.m 22.9 23.3 3~684 kgf.cm) 2. Turn it until the shaft stops.Do not apply excessive force to the stop valve. Doing so may breakthe valve body, as Remove the Cycle Service Panel and the Cover the valve is not a backseat type. Always use the special Board, unscrewing the screws which secure it to the structure 3. Make sure to tighten the cap securely. 2. Closing stop valve 1. Remove the cap and turn the valve clockwise with the hexagon wrench. Securely tighten the valve until the shaft contacts the main bodyseal. Make sure to tighten the cap securely. Cycle Service Panel For the tightening torque, refer to the table below. Cover Board Fig.7-2

1. Split type outdoor unit

Protection board

2. Vertical discharge type outdoor unit

Protection Board

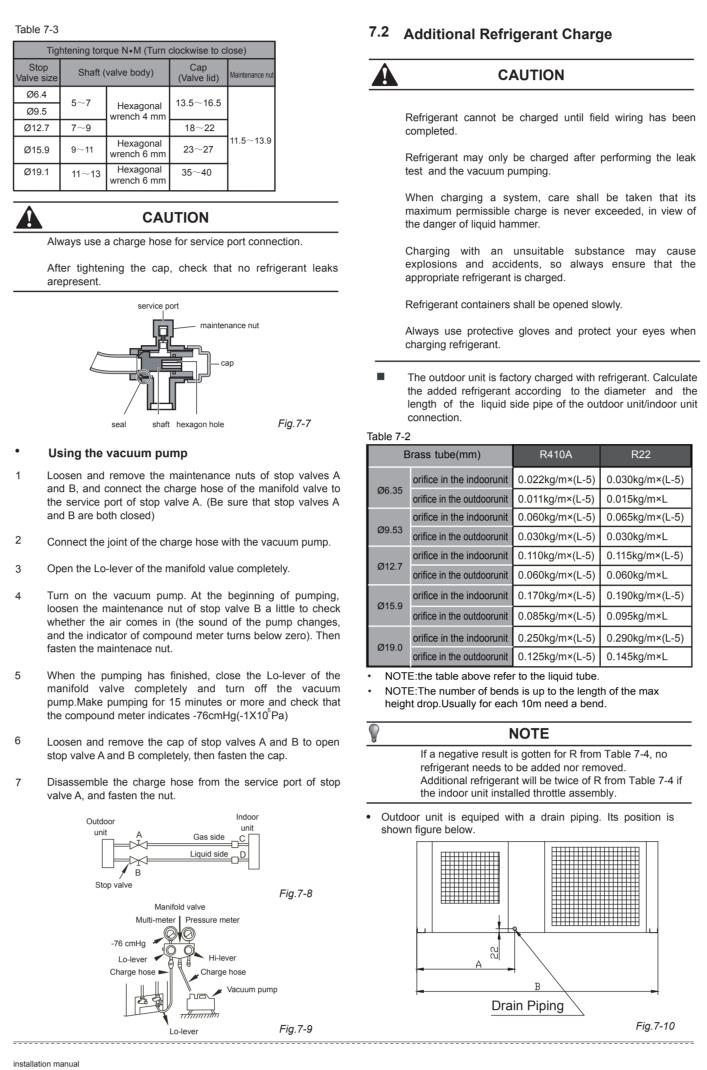
3. Centrifugal fan outdoor unit

Protection Board

Fig.11-1

Fig.11-2

Fig.11-3



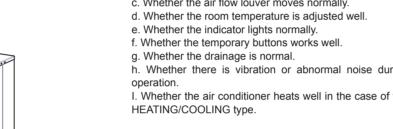
The Specification of Power(indoor power supply)

■ Table 11-1							
	MODEL	18	24	30~36	42~48		
	PHASE	1Phase	1Phase	1Phase	1Phase		
POWER	FREQUENCY AND VOLT	208-240 V	208-240V	208-240V	208-240V		
CIRCUIT BREAKER/FUSE(A)		20/16	40/25	50/30	60/45		

MODEL		30~36	42~60	30~36	42~60
POWER	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(outdoor power supply)

Table 11-3



12. TEST OPERATION

installation has been completed.

The drainage is unimpeded.

conditioner.

and indoor units.

3 reach the indoor unit smoothly

4 Test operation

• The heating insulation works well.

1 The test operation must be carried out after the entire

2 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.

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

According to the user's requirement, install the remote

controller frame where the remote controller's signal can

Tubing and wiring are correctly completed.

The ground wiring is connected correctly.

the refrigerant have been recorded.

The refrigerant pipe system is leakage-checked.

 2) The outdoor unit a. Whether there is vibration or abnormal noise during operation. b. Whether the generated wind, noise, or condensed of by the air conditioner have influenced your neighborhood.

	c. Whether any of the refrigerant is leaked.
NOTE	CAUTION
All the figures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased. The actual unit shall prevail.	A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it is restarted immediately after shut off.

1Phase 208-240V 60/50 20/10 40/25 50/30

60

42~48

1Phase 1Phase

208-240V 208-240V

70/55 70/60

14

30~36 42~60 3Phase 3Phase 208-240V 208-240V 40/25 45/35

POWER PHASE (outdoor) FREQUENCY AND VOLT CIRCUIT BREAKER/FUSE(A) Table 11-6 MODEL PHASE POWFR

208-240V 208-240V 208-240V 208-240V ndoor) FREQUENCY AND VOL CIRCUIT BREAKER/FUSE(A 20/16 20/16 20/16 20/16 3Phase 3Phase 3Phase 3Phase PHASE 380-420 V 380-420 ∨ 208-240 208-240 tdoor) FREQUENCY AND VOLT RCUIT BREAKER/FUSE(A) 25/20 40/25 45/35 25/20

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

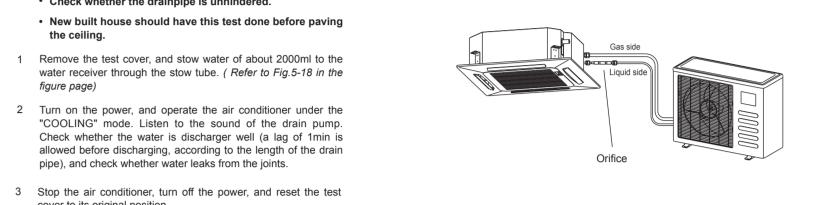
30~36

1Phase

MODEL		18	24	30~36	42~48	60
/ER	PHASE	1Phase	1Phase	1Phase	1Phase	1Phase
	FREQUENCY AND VOLT	220-240 V	220-240V	220-240V	220-240V	220-240V
CUIT BREAKER/FUSE(A)		15/10	15/10	15/10	15/10	15/10
/ER	PHASE	1Phase	1Phase	1Phase	1Phase	1Phase
loor)	FREQUENCY AND VOLT	208-240 V	208-240V	208-240V	208-240V	208-240V
CUIT BREAKER/FUSE(A)		30/20	30/20	40/30	40/35	50/40

MODEL		30~36	42~60	30~36	42~60
POWER (indoor)	PHASE	1Phase	1Phase	1Phase	1Phase
	FREQUENCY AND VOLT	220-240V	220-240V	220-240V	220-240V
CIRCUIT BREAKER/FUSE(A)		15/10	15/10	15/10	15/10
POWER (outdoor)	PHASE	3Phase	3Phase	3Phase	3Phase
	FREQUENCY AND VOLT	380-420 V	380-420 V	208-240V	208-240V
CIRCUIT BREAKER/FUSE(A)		30/20	30/25	50/40	50/40

9. CONNECTIVE DIAGRAM



NOTE For ensuring throttled efficiency, Please mount the Orifice assembly as horizontally as possible; and anti-shock rubber

should be wrapped at external of the Orifice for denoise. CAUTION

Mark the data plate with the Orifice installed(for some models). Please purchase the fittings according to the requirements in

the manual strictly. Refer the diagram when installing. 1. Cooling&heating Liquid side

> Indoor Liquid side Indoor

Indoor of the second second Fig. 9-2

installation manual 16

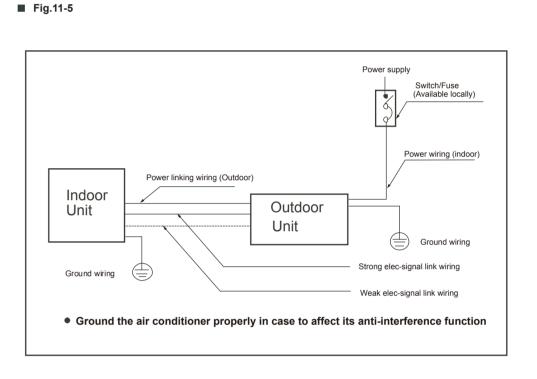
CAUTION

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

Wiring figure

Fig.11-4 Power supply Switch/Fuse (Available locally) Power wiring (indoor) Power linking wiring (Outdoor) Indoor Outdoor Unit X Unit $\left(\frac{\perp}{\underline{}} \right)$ Ground wiring Strong elec-signal link wiring Ground wiring Weak elec-signal link wiring

Ground the air conditioner properly in case to affect its anti-interference function



installation manual 18

installation manual

installation manual

22

ľ	MODEL	24	30~36			
OWER		1Phase	1Phase			
IVVER	FREQUENCY AND VOLT	208-240V	208-240V			
RCUIT	BREAKER/FUSE(A)	40/30	60/40			
able 11-4						
l	MODEL	30~36	42~60			
	PHASE	3Phase	3Phase			
OWER	FREQUENCY AND VOLT	380-420 V	380-420			
RCUIT	BREAKER/FUSE(A)	25/20	25/20			
		20/20	20,20			

remote controller, and check the following points. If there is any malfunction, please resolve it according to the chapter "Troubleshooting" in the "Owner's Manual". • 1) The indoor unit a. Whether the switch on the remote controller works well. b. Whether the buttons on the remote controller works well. c. Whether the air flow louver moves normally.

h. Whether there is vibration or abnormal noise during I. Whether the air conditioner heats well in the case of the

10. INSTALLATION OF FLANGE AND DUCT

Fresh air is intaken by indoor fan motors or ductable fan motor

devices on field. The positions of fresh air intake can be

Fig.10-1

changed according to the installation of ductable fan motor.

NOTE

1. The device can be installed in ceiling cassette type

2. When installing the device, duct is needed on field

When metal duct pass through wooden wall, electric

The duct must be pulled out downside to prevent rain

Net cover must be set at places where duct explodes

installation methods are different and the

Insulation Material(Inside)

Fig.10-2

Removal with Pincher

to outdoor air to prevent birds and animals entering.

For different type of indoor units, the

position of holes are different.

The hole is oppose to drainage pipe

1 Removal the hole on the board.

Installation Type 1

Removal with Pincher Or Incisel with knife

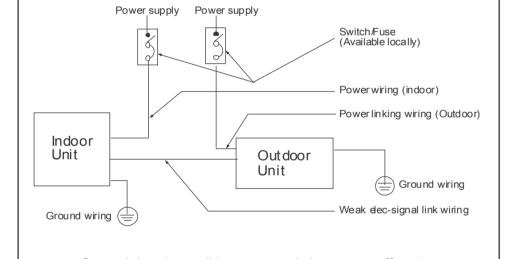
indoor units (several-direction flow).

and the rated diameter is 75mm.

and water entering.

3. The max. length of fresh air duct is 3m.

insulation must be add between duct and wall.



 Ground the air conditioner properly in case to affect its anti-interference function

CAUTION A disconnection device having an air gap contact separation in all active conductors should be incorporated in the fixed wiring according to the National Wiring Regulation.

When wiring, please choose the corresponding chart, or it may cause damage. The signs of the indoor terminal block in the some of following fugures may be replaced by L N L1 N1.

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

installation manual 24

installation manual

installation manual

installation manual

26

installation manual installation manual 28

installation manual

30

installation manual

installation manual installation manual 35

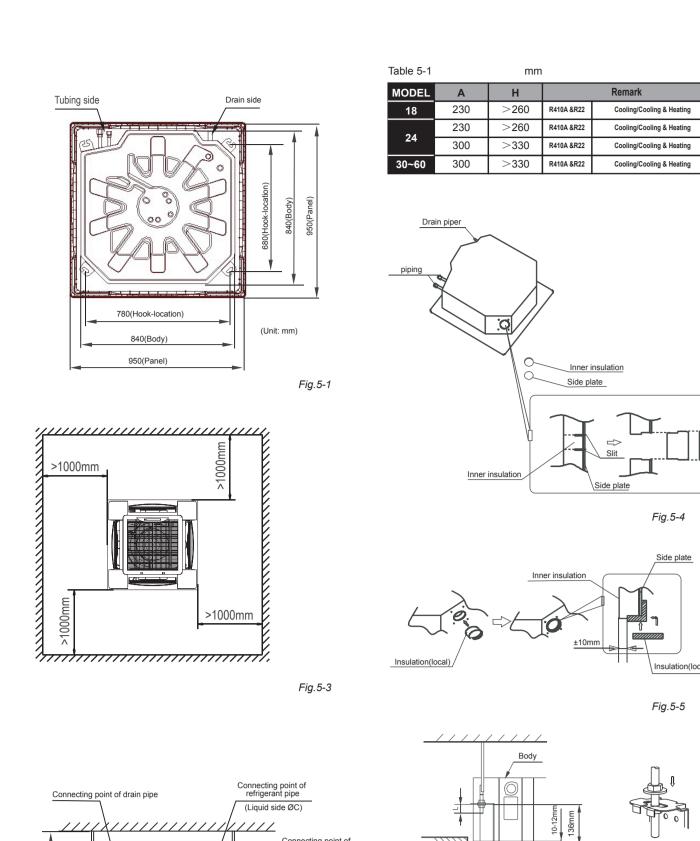
installation manual installation manual

installation manual installation manual 40

INSTALLATION MANUAL

Four-way Cassette Type

Cooling/Cooling & Heating



b)In case that installing on the floor

6.4 Available configuration

during installation work.

Air inlet modification

to unit chassis.

changing the panels and fan position.

NOTE

All the figures in this manual are for explanation

purpose only. They may be slightly different from the air

conditioner you purchased. The actual unit shall prevail.

Four different configuration are available for oudoor unit only

NOTE

well as relevant equipment covered with the vinyl cover

To change air inlet is only necessary to interchange the

indicated panels position. Both panels use screws to be fixed

10. INSTALLATION OF FLANGE AND DUCT

Fresh air is intaken by indoor fan motors or ductable fan motor

devices on field. The positions of fresh air intake can be

changed according to the installation of ductable fan motor.

NOTE

1. The device can be installed in ceiling cassette type

2. When installing the device, duct is needed on field

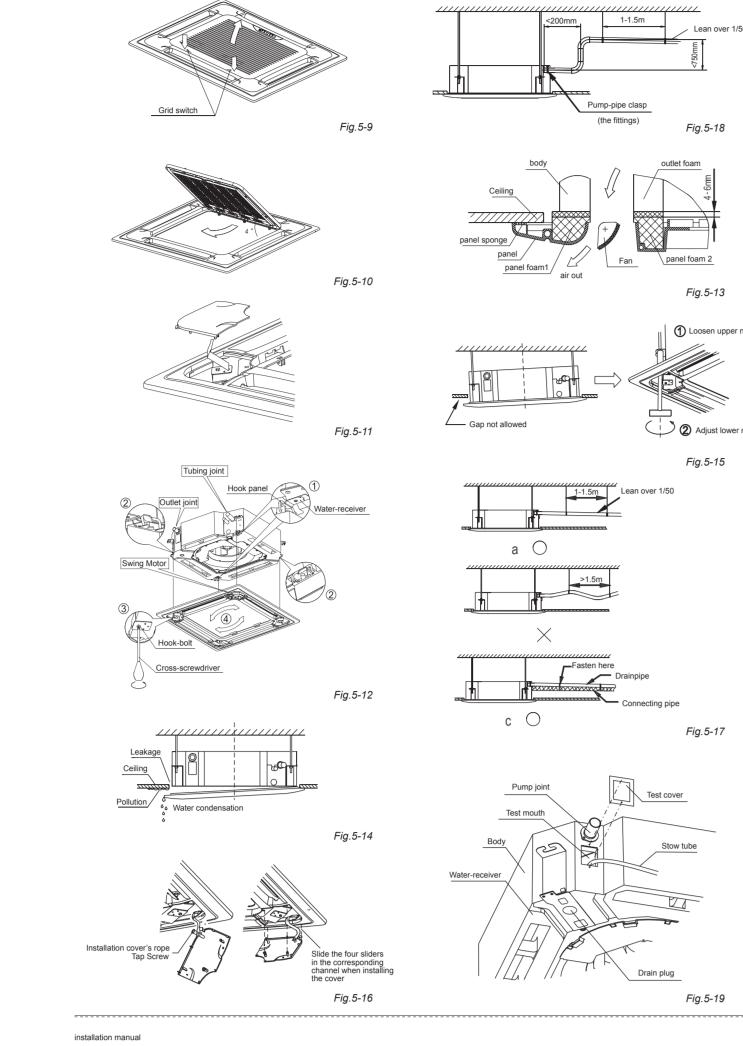
When metal duct pass through wooden wall, electric

indoor units (several-direction flow).

and the rated diameter is 75mm.

3. The max. length of fresh air duct is 3m.

Keep in mind that fan unit weight is aprox 30kg ,the unit as



			installation manual 1
1-1.5m Lean over 1/50	5.4 Install The Pa	anel	Adjust the four panel hook screws to keep the panel horizontal, and screw them up to the ceiling evenly. (<i>Refer to</i> <i>Lie 5 (2 2)</i>)
Line and the second sec		CAUTION	 Fig.5-12.3) Regulate the panel in the direction of the arrow in Fig.5-12.4 slightly to fit the panel's center to the center of the ceiling's
V	Never put the pa wall, or on bulgy	anel face down on floor or against the objects.	 opening. Guarantee that hooks of four corners are fixed well. Keep fastening the screws under the panel hooks, until the
(the fittings) (the fittings) (the fittings)	Never crash or st	rike it.	 thickness of the sponge between the body and the panel's outlet has been reduced to about 4~6mm. The edge of the
outlet foam	1 Remove the air-in g		 panel should contact with the ceiling well. (Refer to Fig.5-13) Malfunction described in Fig.5-14 can be caused by inappropriate tightness the screw.
	and then pull them	tches toward the middle at the same time, up. (<i>Refer to Fig.5-9</i>) to an angle of about 45 [°] , and remove it.	 If the gap between the panel and ceiling still exists after fastening the screws, the height of the indoor unit should
	(Refer to Fig.5-10)		be modified again. (<i>Refer to Fig.5-15-left</i>)You can modify the height of the indoor unit through the
Fan panel foam 2		tion covers at the four corners ts, loose the rope of the installation covers,	openings on the panel's four corners, if the lift of the indoor unit and the drainpipe is not influenced (<i>Refer to</i> <i>Fig.5-16-right</i>).
Fig.5-13	and remove them.		4 Hang the air-in grill to the panel, then connect the lead terminator of the swing motor and that of the control box
D Loosen upper nut	3 Install the panelAlign the swing model	otor on the panel to the tubing joints of the	with corresponding terminators on the body respectively.
	body properly. (Re		5 Relocate the air-in grill in the procedure of reversed order.
	to the hooks of o <i>Fig.5-12.1)</i> Then	corresponding water receiver. (<i>Refer to</i> hang the other two panel hooks onto ligers of the body. (<i>Refer to Fig.5-12.2</i>)	to Relocate the installation cover.
(2) Adjust lower nut Fig.5-15	A	CAUTION	 Press the installation cover into the panel slightly. (Refer to Fig.5-16-right)
1-1.5m Lean over 1/50	Do not coil the v sponge.	wiring of the swing motor into the seal	
	5.5 Install the dis	stribution duct	
>1.5m	Conditioned air ca	an be distributes by means of a distribut	ution duct.
-Fasten here Drainpipe			A
Connecting pipe			Distribution duct
Fig.5-17	Г		

binding tapes.

details.

damage to the tubing.

unit in fluent flow.

or soap water.

prevent leakage.

between them.

1 Flaring

How to Connect the pipes

Pass the bound connecting pipe through the wall conduct

from outside. Be careful of the pipe allocation to do on

refrigerant pipe connecting the indoor unit with the outdoor

3 Connect the pipes. Refer to "How to Connect the pipes" for

4 Expel the air with a vacuum pump. Refer to "How to expel the

6 Check the leakage. Check all the joints with the leak detector

7 Cover the joints of the connecting pipe with the soundproof /

CAUTION

insulating sheath (fittings), and bind it well with the tapes to

Be sure to with insulating materials cover all the exposed

parts of the flare pipe joints and refrigerant pipe on the

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

Incomplete insulation may cause water condensation.

 $O \times X \times X$

Lean crude

• Cut a pipe with a pipe cutter. (Refer to Fig.7-1)

air with a vacuum pump" for details.

CONTENTS

PRECAUTIONS....

WIRING

INSTALLATION INFORMATION......

ATTACHED FITTINGS.....

INDOOR UNIT INSTALLATION......

OUTDOOR UNIT INSTALLATION......

INSTALL THE CONNECTING PIPE

CONNECT THE DRAIN PIPE

CONNECTIVE DIAGRAM.....

TEST OPERATION......

1. PRECAUTIONS

cautions carefully.

INSTALLATION OF FLANGE AND DUCT

Keep this manual where the operator can easily find them.

For safety reason the operator must read the following

The safty precautions listed here are divided into two categories.

WARNING

CAUTION

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

the owner's manual for future reference.

the equipment.

customers that they should store this installation manual along with

WARNING

install, repair or service the equipment.

Be sure only trained and qualified service personnel to

Improper installation, repair, and maintenance may result in

electric shocks, short-circuit, leaks, fire or other damage to

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

If you do not follow these instrutions exactly, the unit may

cause property damage, personal injury or loss of life.

If you do not follow these instrutions exactly, the unit may

cause minor or moderate property damage, personal

Read this manual attentively before starting up the units.

INSPECTING AND HANDLING THE UNIT

CAUTION	Regulate the panel in the direction of the arrow in <i>Fig.5-12.4</i>
t the panel face down on floor or against the n bulgy objects.	slightly to fit the panel's center to the center of the ceiling's opening. Guarantee that hooks of four corners are fixed well.
sh or strike it.	Keep fastening the screws under the panel hooks, until the thickness of the sponge between the body and the panel's outlet has been reduced to about 4~6mm. The edge of the
e air-in grill. grill switches toward the middle at the same time, built them up. (<i>Refer to Fig.5-9</i>) grill up to an angle of about 45,° and remove it. <i>Fig.5-10</i>) e installation covers at the four corners if the bolts, loose the rope of the installation covers, <i>ve</i> them. (<i>Refer to Fig.5-11</i>) anel swing motor on the panel to the tubing joints of the erly. (<i>Refer to Fig.5-12</i>) of the panel at swing motor and its opposite sides	 panel should contact with the ceiling well. (<i>Refer to Fig.5-13</i>) Malfunction described in <i>Fig.5-14</i> can be caused by inappropriate tightness the screw. If the gap between the panel and ceiling still exists after fastening the screws, the height of the indoor unit should be modified again. (<i>Refer to Fig.5-15-left</i>) You can modify the height of the indoor unit through the openings on the panel's four corners, if the lift of the indoor unit and the drainpipe is not influenced (<i>Refer to Fig.5-16-right</i>). Hang the air-in grill to the panel, then connect the lead terminator of the swing motor and that of the control box with corresponding terminators on the body respectively. Relocate the air-in grill in the procedure of reversed order.
oks of corresponding water receiver. (<i>Refer to</i> 1) Then hang the other two panel hooks onto ding hangers of the body. (<i>Refer to Fig.5-12.2</i>)	 6 Relocate the installation cover. Fasten the rope of installation cover on the bolt of the installation cover. (<i>Refer to Fig.5-16-left</i>)
CAUTION	Press the installation cover into the panel slightly. (Refer to Fig.5-16-right)
oil the wiring of the swing motor into the seal the distribution duct red air can be distributes by means of a distribution	ı duct.
Distribution duct	Fresh air intake (ф75)

Install according to this installation instructions strictly. If installation is defective, it will cause water leakage,

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

Use the attached accessories parts and specified parts

otherwise, it will cause the set to fall, water leakage,

Install at a strong and firm location which is able to

If the strength is not enough or installation is not properly

Before obtaining access to terminals, all supply circuits

The appliance must be positioned so that the plug is

The enclosure of the appliance shall be marked by word,

For electrical work, follow the local national wiring

standard, regulation and this installation instructions. An

If electrical circuit capacity is not enough or defect in

Use the specified cable and connect tightly and clamp

the cable so that no external force will be acted on the

If connection or fixing is not perfect, it will cause heat-up or

Wiring routing must be properly arranged so that control

If control board cover is not fixed perfectly, it will cause

heat-up at connection point of terminal, fire or electrical

If the supply cord is damaged, it must be replaced by the

An all-pole disconnection switch having a contact

separation of at least 3mm in all poles should be

When carrying out piping connection, take care not to let

Otherwise, it will cause lower capacity, abnormal high

Do not modify the length of the power supply cord or use

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

pressure in the refrigeration cycle, explosion and injury.

air substances go into refrigeration cycle.

Otherwise, it will cause fire or electrical shock.

account strong winds, typhoons or earthquakes.

manufacture or its service agent or a similarly qualified

independent circuit and single outlet must be used.

electrical work, it will cause electrical shock or fire.

or by symbols, with the direction of the fluid flow.

The appliance must be installed 2.3m above floor.

The appliance shall not be installed in the laundry.

electrical shock and fire.

deficiency.

for installation.

electrical shock and fire.

withstand the set' s weight.

must be disconnected.

accessible.

terminal.

shock

fire at the connection.

board cover is fixed properly.

person in order to avoid a hazard.

connected in fixed wiring.

other electrical appliances.

and causing accidents.

done, the set will drop to cause injury.

PAGE

	Series A=350mm; Series B=85mm Series A=350mm; Series B=155mm	6.1 Installation Place
		The outdoor unit should be installed in the location that meets the following requiements:
		There is enough room for installation and maintenance.
		 The air outlet and the air inlet are not impeded, and can not be reached by strong wind.
		 It must be a dry and well ventilating place.
	One-way	 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.
•	AUT 30/36/45/54L	 It is easy to install the connecting pipes or cables.
		 Determine the air outlet direction where the discharged air is not blocked.
		 There is no danger of fire due to leakage of inflammable gas.
		 The piping length between the outdoor unit and the indoor unit may not exceed the allowable piping length.
	Two-way AUT 30/36/45/54L	 In the case that the installation place is exposed to strong wind such as a seaside, make sure the fan operating properly by putting the unit lengthwise along the wall or using a dust or shield.(<i>Refer to Fig.6-1</i>)
		 If possible, do not install the unit where it is exposed to direct sunlight.
	Fig.5-20	 If necessary, install a blind that does not interfere with the air flow.
	19.0 20	 During the heating mode, the water drained off the outdoor unit ,The condensate should be well drained away by the drain hole to an appropriate place, so as not to interfere other people.
In case of one duct connect	ction	• Select the position where it will not be subject to snow
The air volume in du to 24 unit.	ict is around 300-360m3/h for model 18	drifts, accumulation of leaves or other seasonal debris. If unavoidable, please cover it with a shelter.
The air volume in du to 48 unit.	ict is around 400-640m3/h for model 36	 Locate the outdoor unit as close to the indoor unit as possible.
The max. length of d	uct is 2m.	• If possible, please remove the obstacles nearby to
The original air outle be sealed In case of	t with the same direction of duct should two duct connection.	prevent the performance from being impeded by too little of air circulation.
In case of two duct connect	tion	 The minimum distance between the outdoor unit and obstacles described in the installation chart does not mean that the same is applicable to the situation of an

be sealed.

installation manual

Table 7-3

Ø15.9 9~1

arepresent.

wrench 6 mm

CAUTION

Always use a charge hose for service port connection.

service port

After tightening the cap, check that no refrigerant leaks

maintenance nut

 Ø19.1
 11~13
 Hexagonal wrench 6 mm
 35~40

ase of two duct connection	obstacles described in the installation chart does not mean that the same is applicable to the situation of an
The air volume in one duct is around 200-260m3/h for model 18 to 24 unit.	airtight room. Leave open two of the three directions.(<i>Refore to Fig.6-4, Fig.6-5</i>)
The air volume in one duct is around 300-500m3/h for model 36 to 48 unit.	Ling Ling
The max, length of duct is 1.5m for one duct.	

If the refrigerant leaks during installation, ventilate the 2. INSTALLATION INFORMATION

Toxic gas may be produced if the refrigerant comes into the

room and comes into contact with a source of fire, such as a **If the air conditioner is installed on a metal part of the**

first.

To install properly, please read this "installation manual" at

The air conditioner must be installed by qualified persons.

When installing the indoor unit or its tubing, please follow

building, it must be electrically insulated according to the

When all the installation work is finished, please turn on

Regret for no further announcement if there is any change

of this manual caused by product improvement.

6. OUTDOOR UNIT INSTALLATION

Charging with an unsuitable substance may cause

explosions and accidents, so always ensure that the

appropriate refrigerant is charged.

Refrigerant containers shall be opened slowly.

this manual as strictly as possible.

relevant standards to electrical appliances.

the power only after a thorough check.

INSTALLATION ORDER

Install the indoor unit;

Install the outdoor unit;

Install the connecting pipe ;

Connect the drain pipe;

Wiring;

Select the location;

area immediately.

tube.

place contacting with fire.

refrigerant does not leak.

fan heater, stove or cooker.

Ground the air conditioner.

electric shocks.

condensation.

property damage.

circumstance:

There is petrolatum existing.

in the air (near a hot spring).

In kitchen where it is full of oil gas.

In buses or cabinets.

Other special conditions.

installation manual

interference or noise.

unit wires.

grounding may result in electric shocks.

Be sure to install an earth leakage breaker.

power supply until the wiring and piping is done.

The temperature of refrigerant circuit will be high, please

keep the interconnection cable away from the copper

After completing the installation work, check that the

Toxic gas may be produced if the refrigerant leaks into the

CAUTION

Do not connect the ground wire to gas or water pipes,

lightning rod or a telephone ground wire.Inappropriate

Failure to install an earth leakage breaker may result in

Connect the outdoor unit wires , then connect the indoor

You are not allowed to connect the air conditioner with the

While following the instructions in this installation

manual, install drain piping in order to ensure proper

drainage and insulate piping in order to prevent

Install the indoor and outdoor units, power supply wiring

and connecting wires should be at least 1 meter away

from televisions or radios in order to prevent image

Depending on the radio waves, a distance of 1 meter may not

The appliance is not intended for use by young children

Don't install the air conditioner in the following

be sufficient enough to eliminate the noise.

or infirm persons without supervision.

There is salty air surrounding (near the coast).

The Volt vibrates violently (in the factories).

There is strong electromagnetic wave existing.

There are inflammable materials or gas.

There is acid or alkaline liquid evaporating.

There is caustic gas (the sulfide, for example) existing

NOTE

Improper drain piping may result in water leakage and

6.2 Figure of body size

1. Split type outdoor unit

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

Table 6-1

Fig.6-2

Fig.6-3

MODEL A B C D E F H REMARK

530 290 315 270 282 593 Fig.6-2

290 315 270 282 593 *Fig.6-2*

335 360 312 324 695 *Fig.6-2*

) 333 355 302 313 862 *Fig.6-2*

366 396 340 354 966 *Fig.6-2*

624 366 396 340 354 966 *Fig.6-2*

24 | 366 | 396 | 340 | 354 | 966 | *Fig.6-2*

600 376 400 340 360 1245 Fig.6-3

600 376 400 340 360 1245 *Fig.6-3*

600 376 400 340 360 1245 Fig.6-3

 590
 378
 400
 330
 340
 1167
 Fig.6-3

600 376 400 340 360 1245 *Fig.6-3*

590 378 400 330 340 1167 *Fig.6-3*

Fig.6-5

2. Vertical discharge type outdoor unit

366 396 340 354 966 Fig.6-2

624 366 396 340 354 966 *Fig.6-2*

0 333 355 302 313 862 Fig.6-2

582 368 390 328 340 660 Fig.6-2

4. INSPECTING AND HANDLING THE UNIT **5.3** Install the main body

installation manual

Table 6-2

4

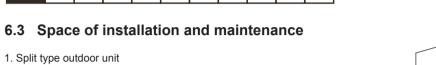
At delivery, the package should be checked and any damage should The existing ceiling (to be horizontal)

At delivery, the package should be checked and any damage should be reported immediately to the service agent.	The existing ceiling (to be horizontal)
When handling the unit, take into account the following:	1 Cut a quadrangular hole of 880x880mm in the ceiling according to the shape of the installation paper board. (<i>Refer to Fig.5-2</i>)
1 Fragile, handle the unit with care.	 The center of the hole should be at the same position of that of the air conditioner body.
$\left \underline{\uparrow \uparrow} \right $ Keep the unit upright in order to avoid compresson damage.	 Determine the lengths and outlets of the connecting pipe, drainpipe and cables.
2 Choose on before hand the path along which the unit is to be brought in.	
Move this unit as originally package as possible.	2 Select the position of installation hooks according to the hook holes on the installation board.
When lifting the unit , always use protectors to prevent belt damage and pay attention to the position of the unit's centre of gravity.	
5. INDOOR UNIT INSTALLATION	 Face the concave side of the installation hooks toward the expansible hooks. Determine the length of the installation hooks from the height of ceiling, then cut off the unnecessary part.
	 If the ceiling is extremely high, please determine the length of the installation hook according to facts.
5.1 Installation place (Refer to Fig.5-1, Fig.5-2, Fig.5-3 and Table 5-1 for specification.)	3 Adjust the hexangular nuts on the four installation hooks evenly, to ensure the balance of the body.
The indoor unit should be installed in a location that meets the following reauirements:	
There is enough room for installation and maintenance.The ceiling is horizontal, and its structure can endure the	 Adjust the position to ensure the gaps between the body and the four sides of ceiling are even. The body's lower part should sink into the ceiling for 10~12 mm (<i>Refer to</i> <i>Fig.5-6</i>).
weight of the indoor unit.The outlet and the inlet are not impeded, and the	 In general, L is half of the screw length of the installation hook.(<i>Refer to Fig.5-6</i>)
influence of external air is the least.	• Locate the air conditioner firmly by wrenching the nuts
The air flow can reach throughout the room.The connecting pipe and drainpipe could be extracted out	after having adjusted the body's position well.(<i>Refer to Fig.5-7</i>)
easily.There is no direct radiation from heaters.	New built houses and ceilings
CAUTION	In the case of new built house, the hook can be embedded in advance (refer to 2 mentioned above). But it should be strong enough to bear the indoor unit and will not become loose because of concrete shrinking.
Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances. (Noise may be generated depending on the conditions under which the	2 After installing the body, please fasten the installation paper board onto the air conditioner with bolts(M6X12) to determine in advance the sizes and positions of the hole
electric wave is generated, even if 1 meter is kept.)	 Please first guarantee the flatness and horizontal of ceiling when installing it.
5.2 Installation procedures for fresh air intake duct connection	Refer to 1 mentioned above for others.
	3 Refer to 3 above for installation.
Preparing the connection holeCut off the knockout hole on the side plate with a nipper.	4 Remove the installation paper board.
• Cut the inner insulation of the hole portion with a cutter. (<i>Refer to Fig.5-4</i>)	CAUTION
 Placing the insulation Put the insulation tightly around the hole of the unit as shown. The ends of the side plate and the inner insulation must be completely adhered without leaving any clearance along the circumference of the hole. 	grounded well.
Make sure the inner surface of insulation tightly contacts the inner insulation edge and the side plate. (<i>Refer to Fig.5-5</i>)	

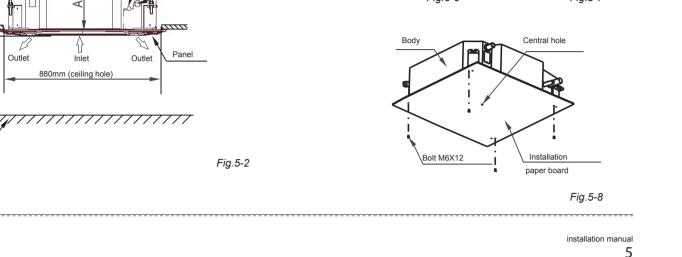
inner insulation edge and the sid

mm 2. Vertical discharge type outdoor unit

(Wall or obstacle) DIMENSIONS В 554 554 554 efore to Fig.6-6 554 3. Centrifugal fan outdoor unit Fig.6-9 Fig.6 Table 6-MODEL A B C D E F G H I 0 680 720 750 475 300 430 265 393 680 720 750 475 300 430 265 393 02 740 770 520 336 500 296 443 740 770 520 336 500 296 443 Fig.6-10
 338
 783
 820
 850
 568
 398
 574
 342
 463
 3. Centrifugal fan outdoor unit
 3
 783
 820
 850
 568
 398
 574
 342
 463
 a) In case that suspending in the ceiling 6.3 Space of installation and maintenance



(Wall or obstacle)



mounted as follow.

6.5 Moving and installation

deforming.

the outdoor units.

1111111

Installation Type 2

Refrigerant Pipe

2 Stick insulation material 4 at indoor hole

The hole is oppose to refrigerant pipe

Board

Removal with Pincher

Commissure

Board

No insulation material inside, only removal board

_____<u>_</u>

Fig.6-15)

Since the gravity center of the unit is not at its physical

center, so please be careful when lifting it with a sling.

Never hold the inlet of the outdoor unit to prevent it from

Do not lean it more than 45°, and do not lay it sidelong.

Make concrete foundation accoding to the sepecifications of

Fasten the feet of this unit with bolts firmly to prevent it from

NOTE

All the figures in this manual are for explanation

purpose only. They may be slightly different from the air

conditioner you purchased. The actual unit shall prevail.

collapsing in case of earthquake or strong wind.(Refer to

• Do not touch the fan with hands or other objects.

Fig.6-12

Fia6-1

Fig.10-1

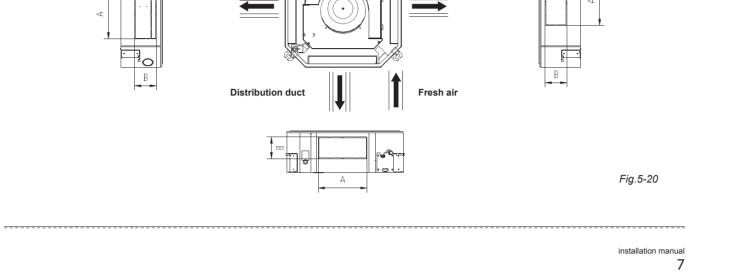
To change air outlet is necessary to interchange panels too.

Fan outlet panel is attached to fan structure, which must be

Fig.6-14

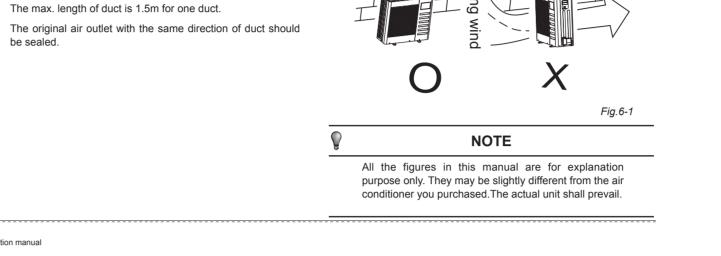
Fig.6-15

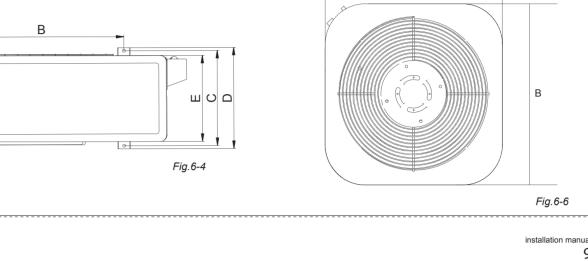
installation manual



2 Bind the connecting pipe and the cables together tightly with 3 Remove the protection cover of stop valve

5 open the stop values of the outdoor unit to make the • Bend the tubing in proper way. Do not harm to them.





Drainage test

the ceiling.

cover to its original position.

figure page)

Check whether the drainpipe is unhindered.

· New built house should have this test done before paving

Remove the test cover, and stow water of about 2000ml to the

2 Turn on the power, and operate the air conditioner under the

pipe), and check whether water leaks from the joints.

3 Stop the air conditioner, turn off the power, and reset the test

NOTE

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.

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.

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.

Connect the drain joint with an extension drain hose (Locally

purchased), in case of the condensate draining off the outdoor

The base pan hole

of outdoor unit

Fia 8

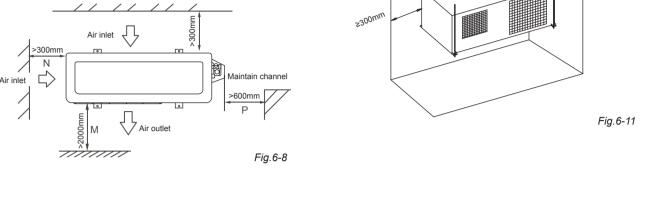
Install the drain joint of the outdoor unit

water receiver through the stow tube. (Refer to Fig.5-18 in 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



installation manual 10

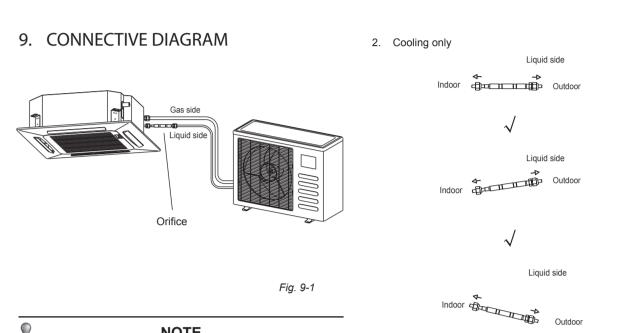


Fig. 9-3

NOTE For ensuring throttled efficiency, Please mount the Orifice assembly as horizontally as possible; and anti-shock rubber should be wrapped at external of the Orifice for denoise.

Orifice

CAUTION

Mark the data plate with the Orifice installed(for some models).						
•	Please purchase the fittings according to the requirements in					

the manual strictly. Refer the diagram when installing. 1. Cooling&heating

Liquid side Indoor

Liquid side Indoor Indoor Outdoor

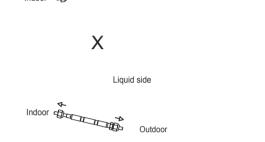
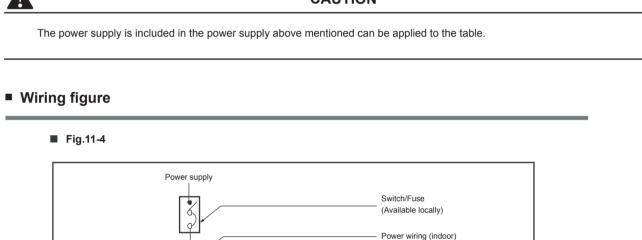
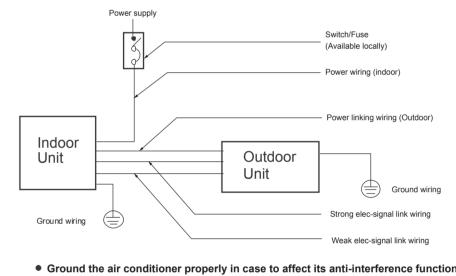


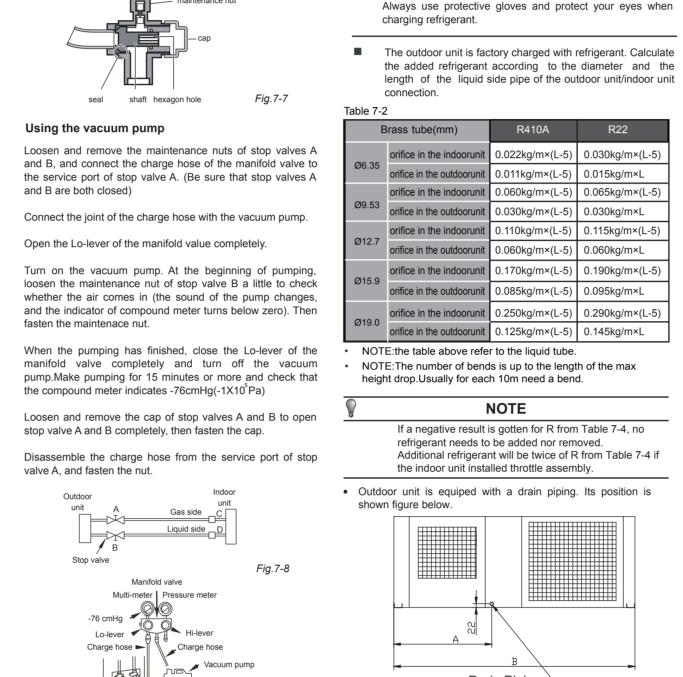
Fig. 9-2

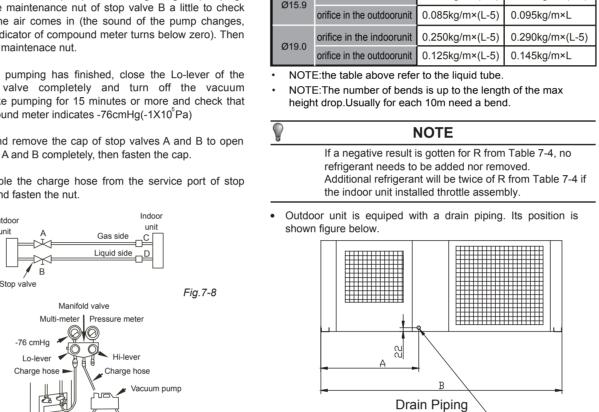
_____ installation manual 16





 Using the vacuum pump Fig.7-5 1 Loosen and remove the maintenance nuts of stop valves A • Be sure to use both a spanner and torque wrench and B, and connect the charge hose of the manifold valve to together when connecting or disconnecting pipes to /from the service port of stop valve A. (Be sure that stop valves A and B are both closed) 2 Connect the joint of the charge hose with the vacuum pump. 3 Open the Lo-lever of the manifold value completely. Fig.7-6 4 Turn on the vacuum pump. At the beginning of pumping, loosen the maintenance nut of stop valve B a little to check whether the air comes in (the sound of the pump changes, CAUTION and the indicator of compound meter turns below zero). Then fasten the maintenace nut. Too large torque will harm the bellmouthing and too small will cause leakage. Please determine the torque according to Table 7-2. After the connecting work is finished, be sure to check that there is pump.Make pumping for 15 minutes or more and check that the compound meter indicates -76cmHg(-1X10°Pa) How to expel the air with a vacuum pump 6 Loosen and remove the cap of stop valves A and B to open Stop valve operation introduction stop valve A and B completely, then fasten the cap. Opening stop valve 1. Remove the cap and turn the valve 7 Disassemble the charge hose from the service port of stop counterclock-wise with the hexagon wrench. valve A, and fasten the nut. 2. Turn it until the shaft stops.Do not apply excessive force to the stop valve. Doing so may breakthe valve body, as Outdoor unit A Gas side the valve is not a backseat type. Always use the special 3. Make sure to tighten the cap securely. [−] / _B Stop valve 2. Closing stop valve Fig.7-8 1. Remove the cap and turn the valve clockwise with the Manifold valve hexagon wrench. Multi-meter Pressure meter Securely tighten the valve until the shaft contacts the





Drain Piping ------Fig.7-10 Fig.7-9 Lo-lever

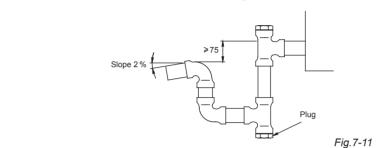
The Specification of Power(indoor power supply)

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

I	MODEL	30~36	42~60	30~36	42~60
POWER	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 duct must be add between duct and wall. The duct must be pulled out downside to prevent rain and water entering. Net cover must be set at places where duct explodes to outdoor air to prevent birds and animals entering.		 Install Duct (the rated diameter:Ø75) Connect the duct to the flange.(the flange is assembled with the interface of duct.) After connection, use the ethylene tape (provided on field) to wrap the joint to prevent air-leakage. 	 Remark per EMC Directive 2004/108/EC For to prevent flicker impressions during the start of the compressor (technical process), following installation conditions do apply. 1 The power connection for the air conditioner has to be done at the main power distribution. The distribution has 	Fig. 11-2 3. Centrifugal fan outdoor unit	 "Troubleshooting" in the "Owner's Manual". 1) The indoor unit a. Whether the switch on the remote controller works well. b. Whether the buttons on the remote controller works well. c. Whether the air flow louver moves normally. d. Whether the room temperature is adjusted well. 	MODEL2430~3642~4860POWERPHASE1Phase1Phase1Phase1PhaseFREQUENCY AND VOLT208-240V208-240V208-240V208-240V	(outdoor)FREQUENCY AND VOLT380-420 V380-420 V208-240V208-240VCIRCUIT BREAKER/FUSE(A)25/2025/2040/2545/35The Specification of Power for the invert type air conditioner(independence power supply)	Ground the air conditioner properly in case to affect its anti-interference function
 For different type of indoor units, the installation methods are different and the position of holes are different. Removal the hole on the board. Installation Type 1 The hole is oppose to drainage pipe 	<image/> <complex-block><text><text><text><image/><image/></text></text></text></complex-block>	A) Bend too much Wrong B) Too many bender Wrong 1	 to be of a low impedance, normally the required impedance reaches at a 32 A fusing point. No other equipment has to be connected with this power line. For detailed installation acceptance please refer to your power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens. For power details of the air conditioner refer to the rating plate of the product. For any question contact your local dealer. 11.1 Connect the cable Dissemble the bolts from the cover.(If there isn't a cover on the outdoor unit, disassemble the bolts from the maintenance board, and pull it in the direction of the arrow to remove the protection board.) Connect the connective cables to the terminals as identified with their respective mached numbers on the terminal block of indoor and outdoor units. Re-install the cover or the protection board. 11.2 The Specification of Power (Refer to Table11-1~Table 11-8)	<image/> <image/> <image/> <image/> <image/> <section-header></section-header>	 e. Whether the indicator lights normally. e. Whether the temporary buttons works well. g. Whether the drainage is normal. h. Whether there is vibration or abnormal noise during operation. l. Whether the air conditioner heats well in the case of the HEATING/COOLING type. 2) The outdoor unit a. Whether there is vibration or abnormal noise during operation. b. Whether there is vibration or abnormal noise during operation. b. Whether there is vibration or abnormal noise during operation. b. Whether there is vibration or abnormal noise during operation. c. Whether the generated wind, noise, or condensed of by the air conditioner have influenced your neighborhood. c. Whether any of the refrigerant is leaked. 11 Mathematic Provided State A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it is restarted immediately after shut off. 	Image: Non-solution of the second s	Image: Transmitter Testing indication in the image in th	Fig.11-5
Insulation Material(Inside) Board Fig. 10-2	Fig. 10-6 Ensure the interface of insulation material 4 closely contacts with the inside insulation material and the board. installation manual 17	C) diameter reduce	(Refer to Fig.11-1~Fig.11-6)		installation manual 19	installation manual 20	POWER (outdoor) PHASE SFRase SFRase SFRase SFRase SFRase FREQUENCY AND VOLT 380-420 V 380-420 V 208-240V 208-240V CIRCUIT BREAKER/FUSE(A) 30/20 30/25 50/40 50/40	installation manual 22

7.2 Additional Refrigerant Charge CAUTION 30~36 Refrigerant cannot be charged until field wiring has been 48 646 138 Prepare a polyviny chloride with 21mm inner diameter Refrigerant may only be charged after performing the leak test and the vacuum pumping. Fasten the tube to the drain hose with an adhesive and the field-supplied clamp. The drain piping must be performed with When charging a system, care shall be taken that its a DOWN-SLOPE pitch of 1/25 to 1/100 maximum permissible charge is never exceeded, in view of the danger of liquid hammer. Connect a siphon, as shown in figure below



8. CONNECT THE DRAIN PIPE Install the drainpipe of the indoor unit

You can use a polyethylene tube as the drainpipe

unit during the heating mode. (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 (fittings) together firmly with the out-let pipe clasp (fitting).

• 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 Ø prevent condensation caused by entered air. To prevent water from flowing backwards into the air conditioner while the air conditioner stops, please lean the drainpipe down toward outdoor (outlet-side) at a degree of over 1/ 50. And please avoid any bulge or water deposit. (Refer to Fig.5-17.a in the figure page)

 Do not drag the drainpipe violently when connecting to prevent the body from being pulled. Meanwhile, one supportpoint should be set every 1~1.5m to prevent the drainpipe from yielding (Refer to Fig.5-17a in the figure page). Or you can tie the drainpipe with the connecting pipe to fix it.(Refer to Fig.5-17.c in the figure page)

 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. (Refer to Fig.5-18 in the figure page) • The end of the drainpipe should be over 50mm higher than the ground or the bottom of the drainage chute, and do not

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.

Table 11-5

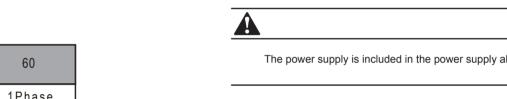
POWFR

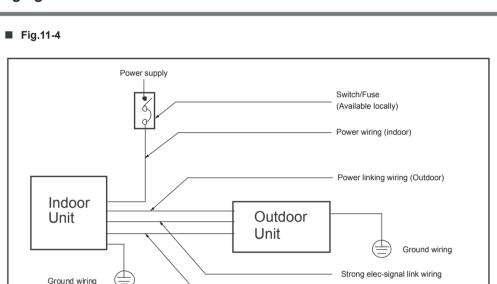
POWFR

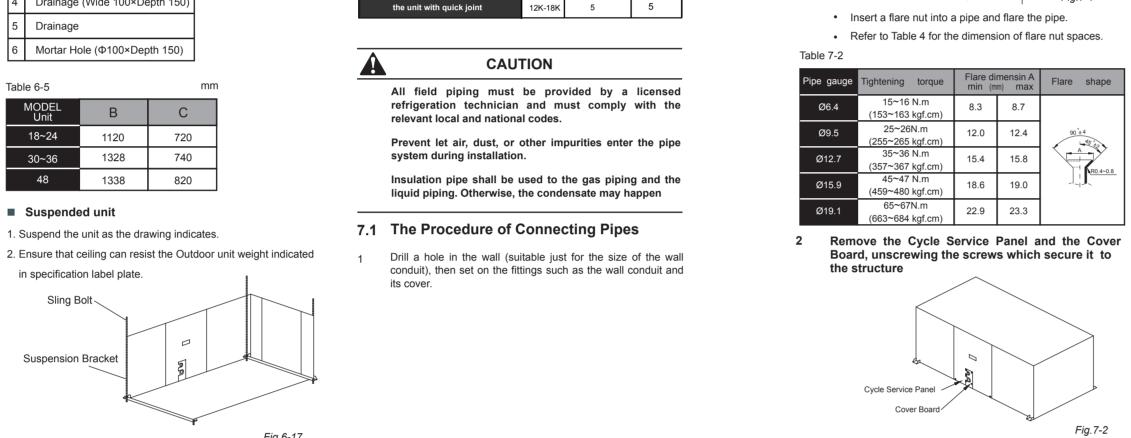
POWER

MODEL

42~60







unit: n

The length of The max

10

25 1

36K 30 20

42K 50 30

35

25 15



Concrete Foundation

Table 6-4

No Description

Outdoor Unit

Vibration-proof rubber

Drainage (Wide 100×Depth 150)

Mortar Hole (Φ100×Depth 150)

1120

1328

1338

1. Suspend the unit as the drawing indicates.

740

820

Anchor Bolt M10

Drainage

Table 6-5

48

Suspended unit

in specification label plate.

Sling Bolt

Suspension Bracket

QSQ4I-017AEN

higher than ground level.

1 Foundation could be on flat and is recommended be 100-300mm

3 When installing the outdoor unit fix the unit by anchor bolts of

sometimes turns to ice on a cold morning. Therefore, avoid

draining in an area that people often use because it is slippery.

2 Install a drainage around foundation for smooth drain

4 When installing the unit on a roof or a veranda, drain water

3 Use screw 2 (M4X12, 4 Pieces) to install flange at the hole, and 11. WIRING then stick insulation material 3.

(M4×12, 4 pieces)

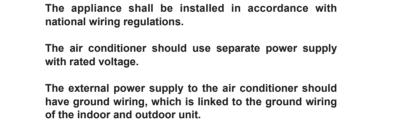
Flange

(M4×12, 4 pieces)

Insulation Material 3

Fig.10-7

Insulation Material 3



7. INSTALL THE CONNECTING PIPE

the bends meet the following requirements:

(The number of the bends less than 15.)

The type of models

50Hz T1 condition/R22

Split type air conditioner

Vertical discharge air condition

z T1 condition/R22 Split type a

tioner and Vertical discharge

R410A inverter Split type air

fan outdoor unit

Fig.6-16

onditioner and and Centrifuga

R410A Split type air conditioner

nd and Centrifugal fan outdoor

50Hz/60Hz T3 condition

(outdoor unit down)

50Hz/60Hz T3 condition

(outdoor unit up)

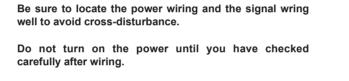
Table 7-1

Check whether the height drop between the indoor unit and

outdoor unit, the length of refrigerant pipe, and the number of

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

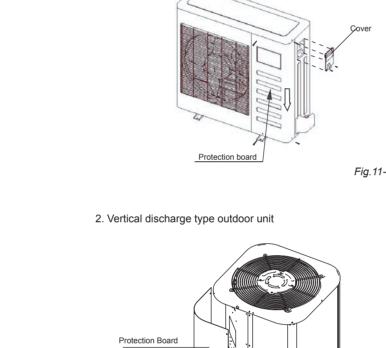
device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national



The power cord type designation is H07RN-F.

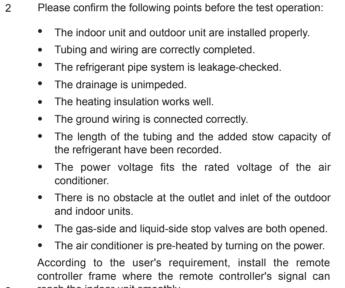
NOTE Remark per EMC Directive 2004/108/EC

Fig.10-8



1. Split type outdoor unit

Fig.11-1 conditioner. and indoor units. 3 reach the indoor unit smoothly 4 Test operation



• 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. According to the user's requirement, install the remote controller frame where the remote controller's signal can

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

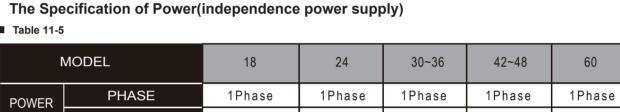
"Troubleshooting" in the "Owner's Manual".

remote controller, and check the following points. If there is any malfunction, please resolve it according to the chapter

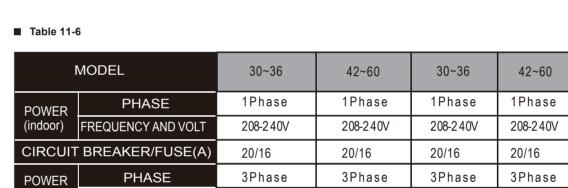
Table 11-2

The Specification of Power(outdoor power supply) Table 11-3

The base pan joint of outdoor unit NOTE All the figures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased. The actual unit shall prevail.



PHASE indoor) FREQUENCY AND VOL 208-240 V 208-240 V 208-240 V 208-240 V 208-240 V IRCUIT 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 208-240 V 208-240 V 208-240 V 208-240 V CIRCUIT BREAKER/FUSE(A) 20/16 40/25 50/30 60/45 60/50

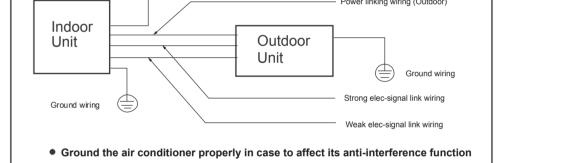


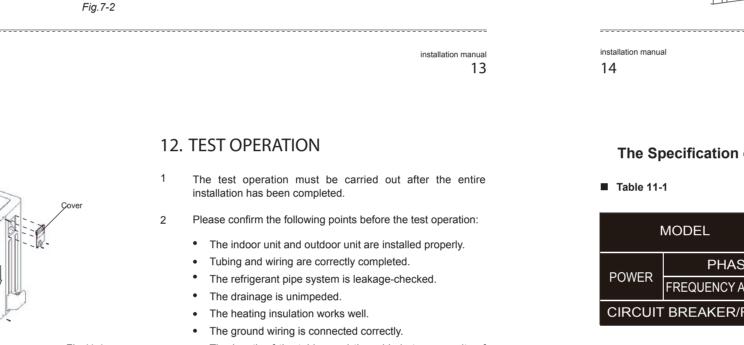
Drain joint

Ð

installation manual

CAUTION





Gas Valve Fig.7-3

min-radius 100mm Fig. 7-4

4 Connect the indoor unit at first, then the outdoor unit.

• The bending angle should not exceed 90.

Do not bend the pipe more than three times.

by hand 3 or 4 turns before tighting firmly.

the unit.

main bodyseal.

Make sure to tighten the cap securely.

For the tightening torque, refer to the table below.

no gas leak.

Bend the pipe with thumb

TAR

Bending position is preferably in the middle of the

When connecting the flare nut, coat the flare both inside

and outside with either oil or ester oil and initially tighten

bendable pipe. The larger the bending radius the better it

Fig.11-6

Power supply Power supply Switch/Fuse (Available locally) – Powerwiring (indoor) – Power linking wiring (Outdoor) Indoor Unit Outdoor Unit (≟) Ground wiring Weak dec-signal link wiring Ground wiring (=) Ground the air conditioner properly in case to affect its anti-interference function

CAUTION A disconnection device having an air gap contact separation in all active conductors should be incorporated in the fixed wiring according to the National Wiring Regulation.

When wiring, please choose the corresponding chart, or it may cause damage. The signs of the indoor terminal block in the some of following fugures may be replaced by L N L1 N1.

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

202000192506 2012.02.08

installation manual installation manual 24

installation manual installation manual 26

installation manual installation manual 28

installation manual installation manual

installation manual installation manual

installation manual installation manual 34