USER'S MANUAL

CASSETTE SERIES

ASC-24A, ASC-36A, ASC-42A



CONTENTS

1

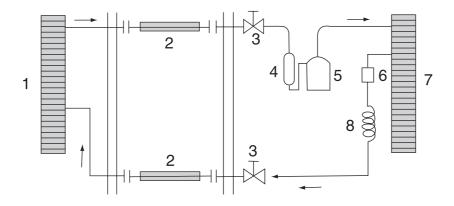
	Operation mechanism and working range	1
	Names and functions of parts	2
	Safety cautions	4
ocedure	Remote control operation procedure	6
Operation procedure	Optimum operation	15
Operat	Trouble shooting	16
	Installation notes	18
	Care and maintenance	19
	Technical specifications	23
Installation	Installation accessories and drawings	24
	Indoor unit installation	26
	Outdoor unit installation	34
	Test and check items after installation	36

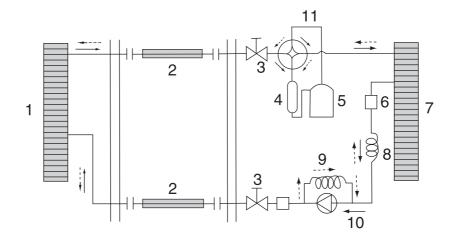
Thank you purchasing this SINCLAIR air conditioner.Read this MANUAL carefully prior to use of the air conditioner and then keep it properly for future reference.

Working temperature range.

	Indoor side DB/WB (°C)	Outdoor side DB/WB (°C)
maximum cooling	32/23	43/26
minimum cooling	21/15	21/15
maximum heating	27/-	24/18
minimum heating	20/-	-5/-6

O Schematic diagram for cooling only type.





1. Indoor heat-exchanger

7. Outdoor heat-exchanger

4. Accumulator

2

10. One-way valve

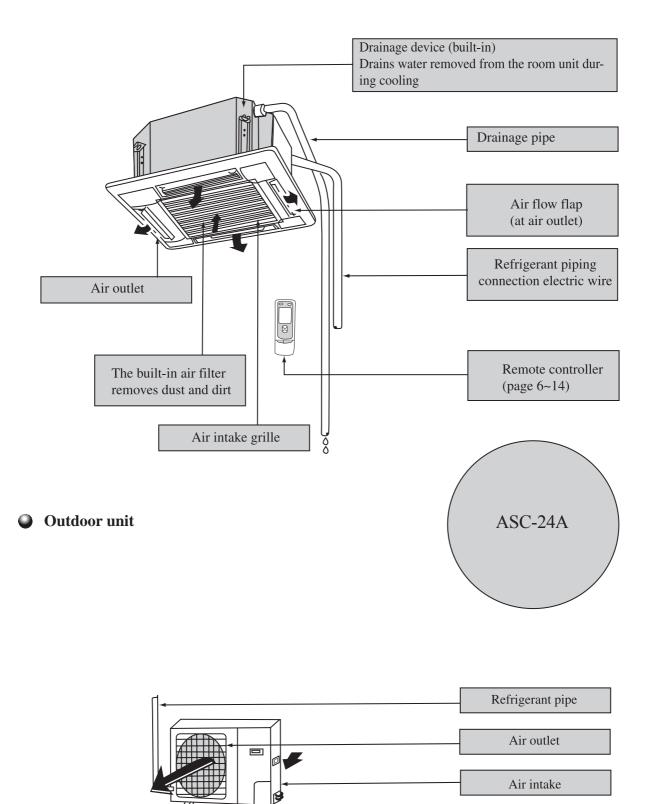
- 5. Compressor
- 3. Check valve
- ssor
- 6. Filter
 - 9. Auxiliary capillary
- 8. Master capillary
 11. Four-way reversing valve

2. Connecting pipe

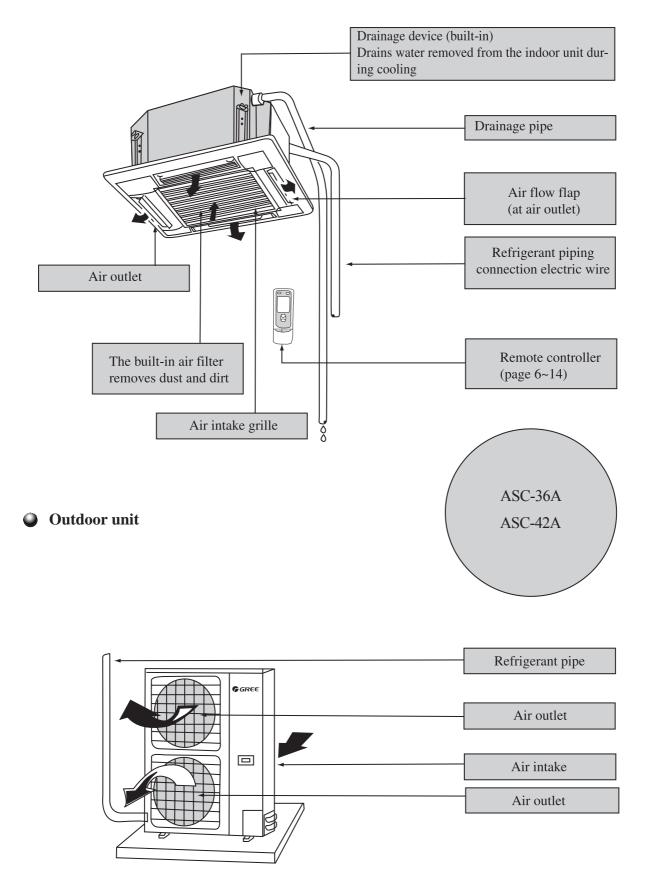
Operation mechanism and working range

3

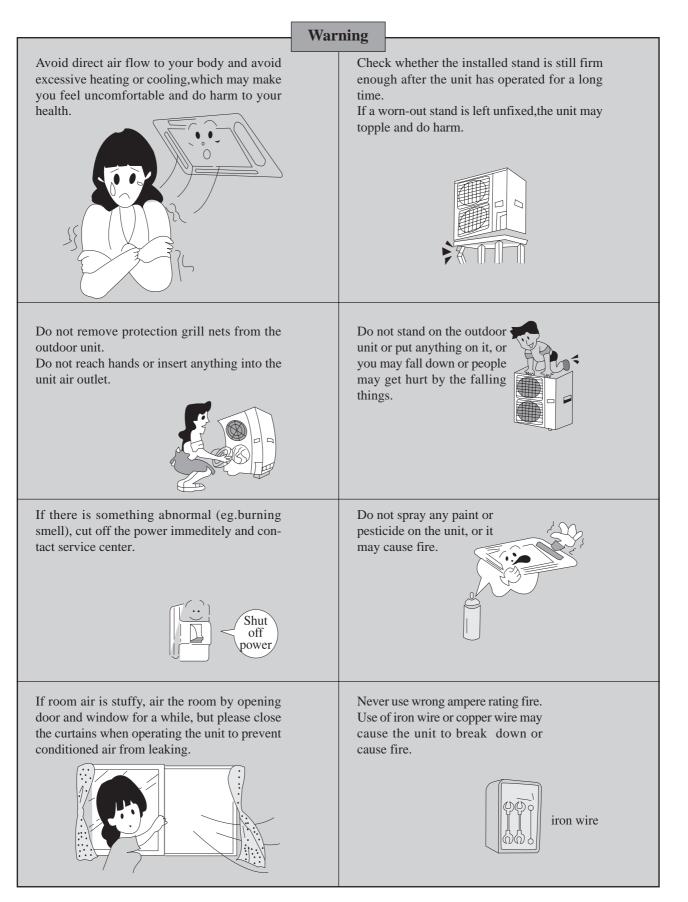
Indoor unit

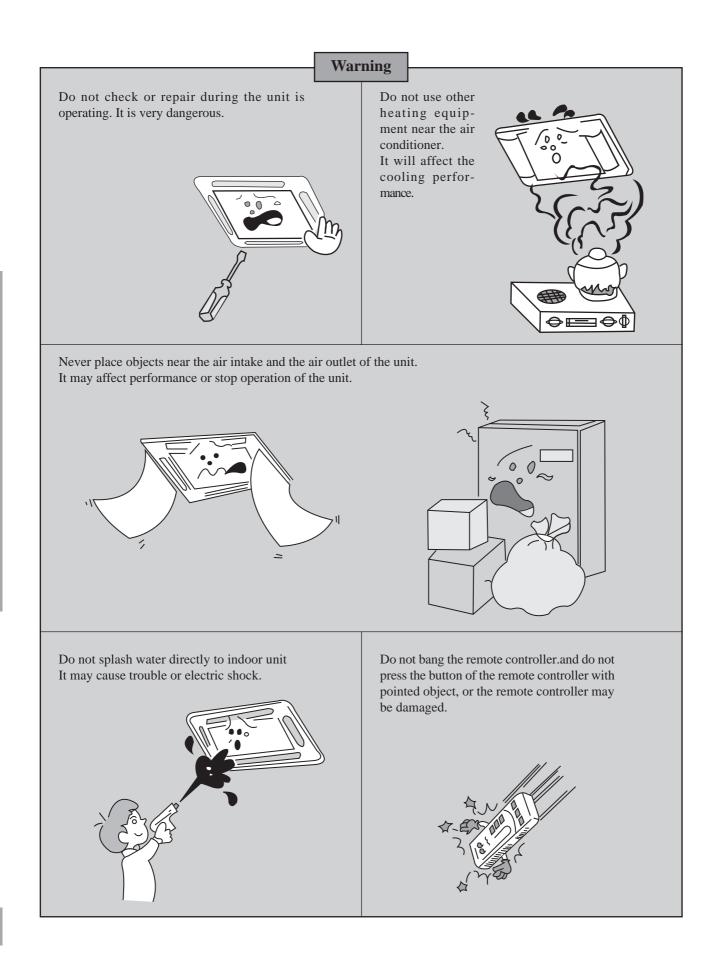


Indoor unit



Read the following carefully to assure safe use.





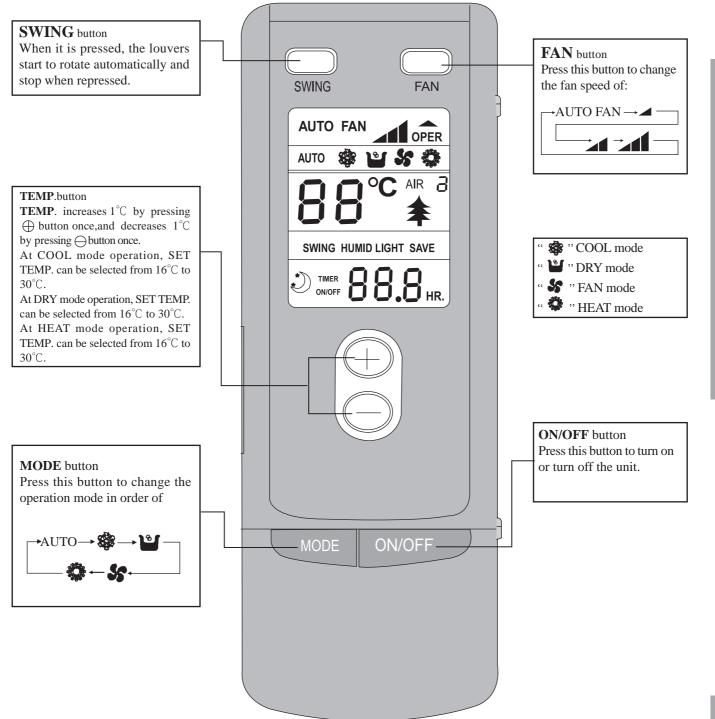
Safety cautions

Name and Function-Remote Control

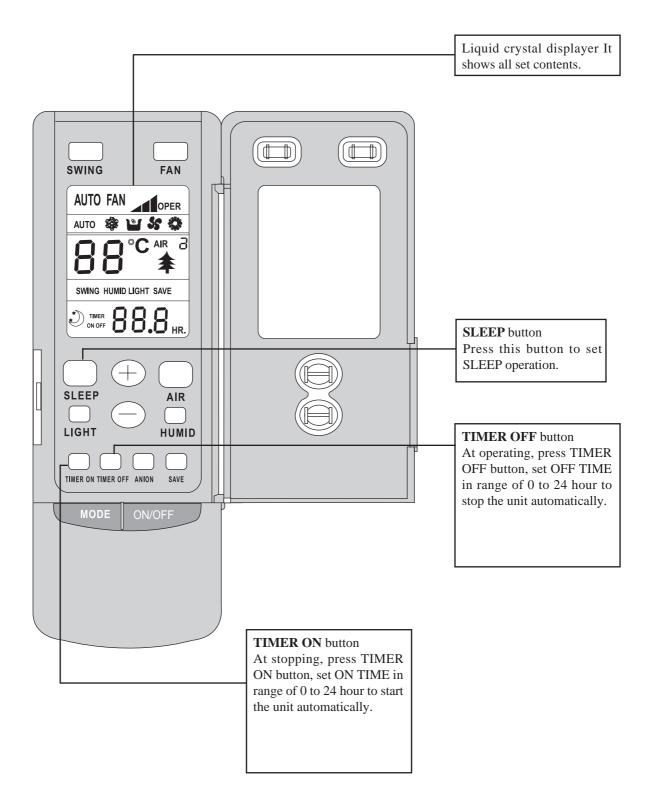
Note:

• Be sure that there are no obstructions.

- Don't drop or throw the remote controller.
- Don't place the remote controller in a location exposed to direct sunlight.

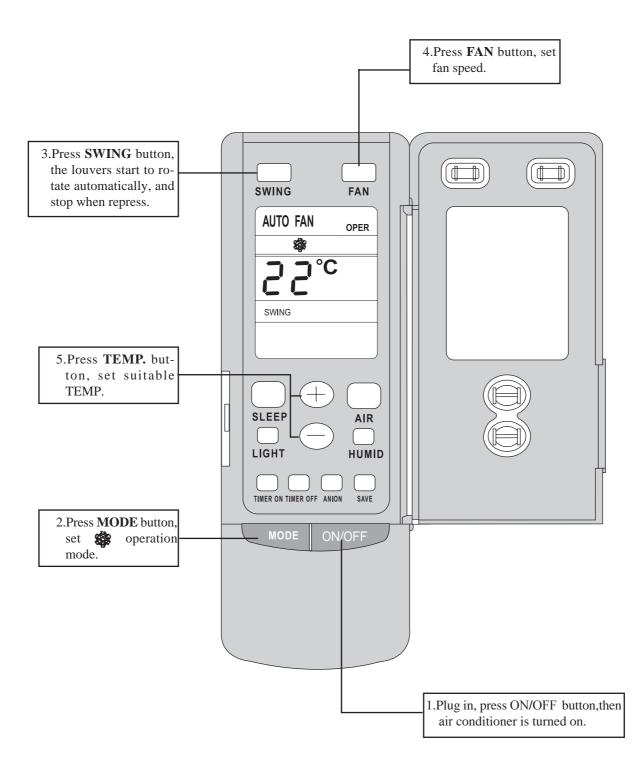


- **•** Name and Function-Remote Control. (Remove the cover)
- Note: This type of remote controller is a kind of new current controller. Some buttons of the controller which are not available to this air conditioner will not be described below.

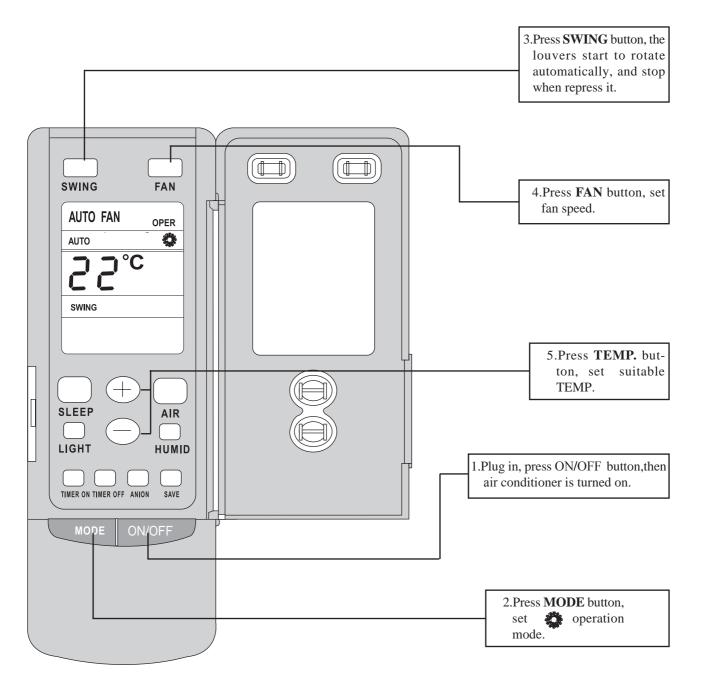


COOL mode operation procedure

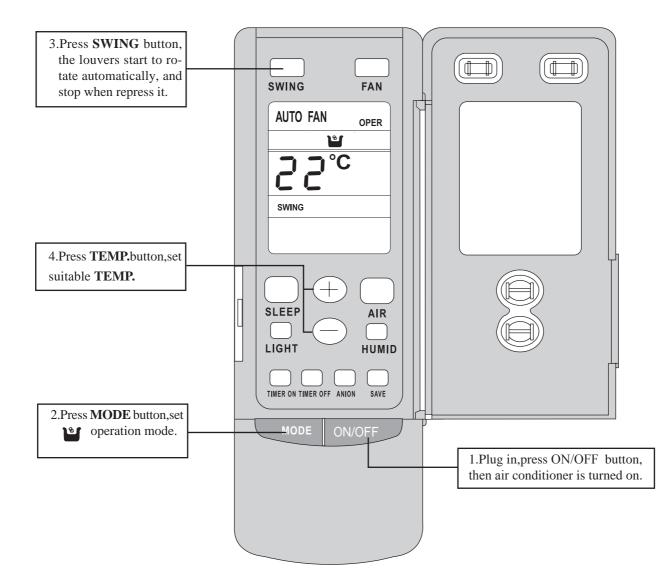
- According to difference between room temp. and set temp., microcomputer can control cooling on or not.
- If room temp. is higher than set temp., compressor runs at COOL mode.
- If room temp. is lower than set temp., compressor stops and only indoor fan motor runs.
- Set TEMP. should be in range of 16 $^\circ C$ to 30 $^\circ C$.



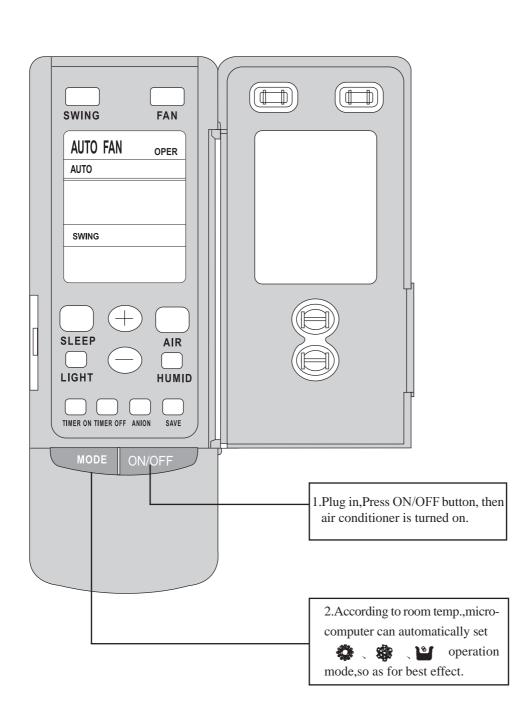
- HEAT mode operation procedure
- If room temp. is lower than set temp., compressor runs at HEAT mode;
- If room temp. is higher than set temp., compressor and outdoor fan motor stop, only indoor fan motor runs.
- Set TEMP. should be in range of 16 $^\circ C$ to 30 $^\circ C$.



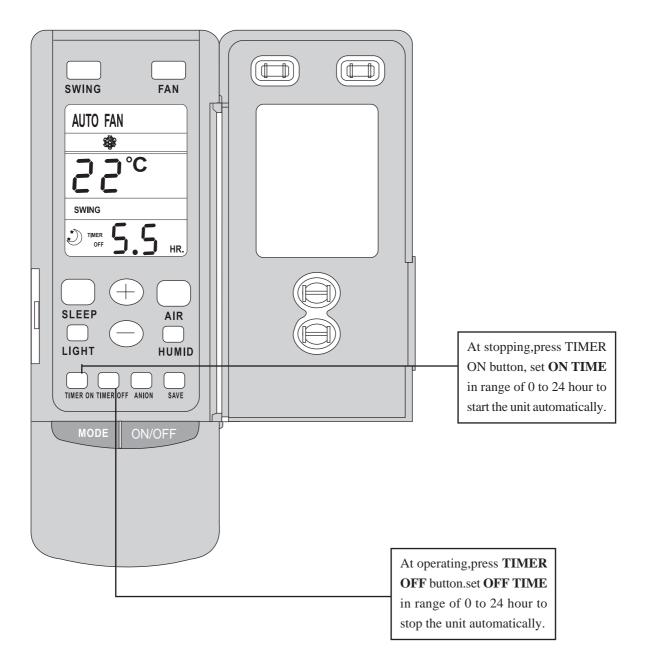
- **ORY mode operation procedure**
- If room temp. is lower than set temp., compressor ,outdoor and indoor fan motor stop. If room temp. is between $\pm 2^{\circ}$ C of set temp., Air conditioner is drying. If room temp. is higher than set temp., it's at COOL mode.
- Set TEMP. should be in range of 16° C to 30° C .



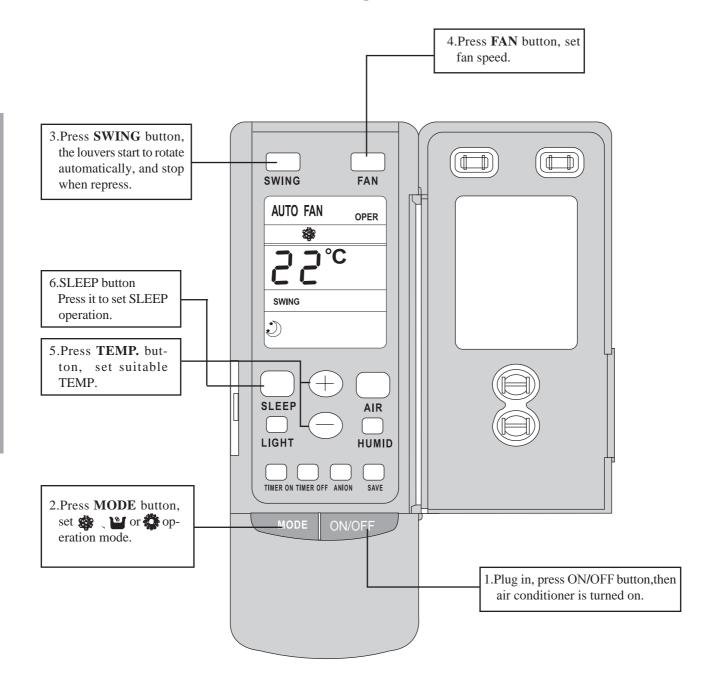
- **AUTO mode operation procedure**
- At AUTO mode operation, standard TEMP. is 25°C for COOL mode and 20°C for HEAT mode.



• TIMER operation procedure



- SLEEP mode operation procedure
- When the unit is cooling or drying, if SLEEP operation is set, TEMP. would increase 1°C in 1 hour and 2°C in 2 hours. Indoor fan motor runs at low speed.
- When the unit is heating , if SLEEP operation is set, TEMP. would decrease $1^{\circ}C$ in 1 hour and $2^{\circ}C$ in 2 hours. Indoor fan motor runs at low speed.

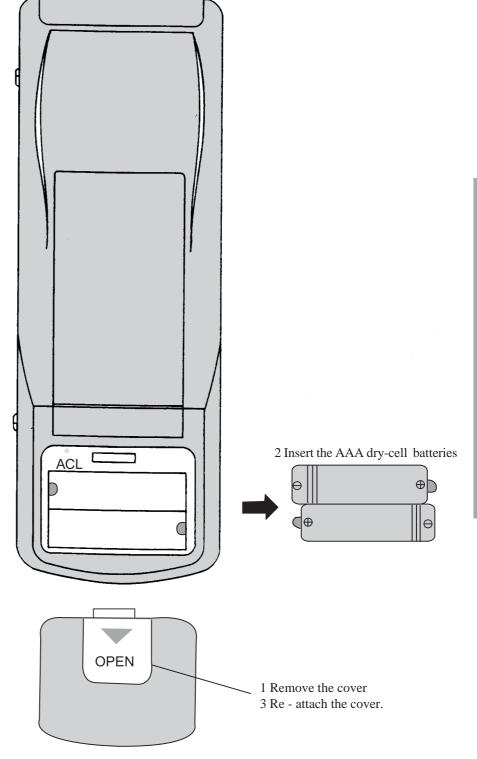


How to insert batteries

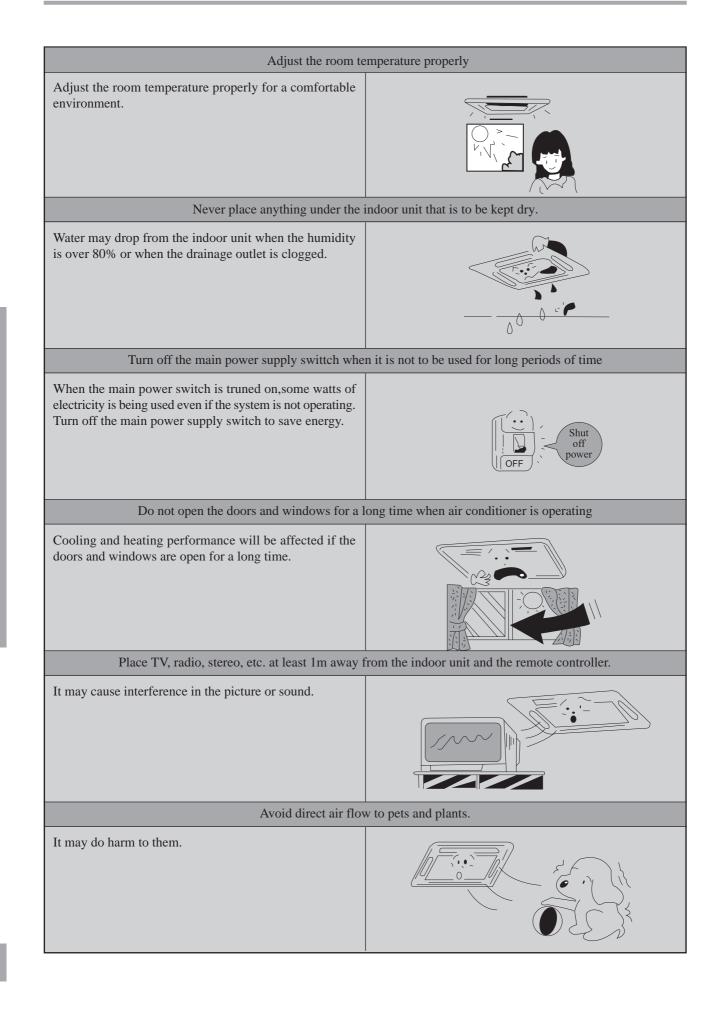
- 1. Remove the cover from the back of the remote controller.
- 2. Insert the two batteries (Two AAA dry cell batteries) and press button "ACL".
- 3. Re attach the cover.

Note:

- Don't confuse the new and worn or different batteries.
- Remove batteries when not in use for a long time.
- The remote control signal can be received at a distance of up to about 10m.



Optimum operation



Warning

- * In case of something abnormal (such as bad smell), shut off the power switch immediately and contact service center.
- * Do not repare the air conditioner by yourself because wrong repair may cause fire, please contact service center to do it for you.

• Check item shown below before contacting service center.

Symptom	Cause	Corrective Measures
The system does not	Pause off or fuse broken	Change fause or replace fuse
operate at all	Power off	It will restart when power is on
	Loose plug	Put the plug into place
	Batteries of remote controller fall	Replace batteries
	Out of the remote controlling range	Keep distance in 8m or less
The system stops right	Object at the air intake and	Romove them
after it is started	air outlet of the air conditioner	
Cooling and heating is	Object at the air intake and	Romove them
melfunctioning	air outlet of indoor and out door units	
	Wrong temperature setting	Refer to p6
	Low fan speed	Refer to p6
	Air direction is not correct	Refer to p6
	Doors or windows are open	Close them
	Direct sunshine	Close the curtain or blinder
	Too many people in the room	
	Too many heating sources	
	Dirty air fliter	Clean it

Trouble shooting

Note:

If trouble still exists after checking the about items, please contact service center.

• The following are not troubles

	" Trouble"	Cause
The unit does not	Restart right after stopping	Once the unit is stopped, it will not operate
operate when	Press SET TEMP.and then release immediately.	for about 3 minutes to protect it
	Power is switched on	Wait for 1 minute
Mist is emitted	When cooling	Room air is chilled rapidly and becomes
		foggy.
Outdoor unit is hot	after the unit is stopped	Compressor is emitting heat to get ready
		for restarting.
Noise	Buzz is heard at starting	It's the starting sound of thermostat and
		will turn low after 1 minute.
	Sound of running water can be heard	This is caused by the refrigerant flowing
	during operation	inside the unit
	A "shuh" sound which is heard at the start	This is the noise of refrigerant caused by
	or immediately after the stop of operation or	flow stop and flow change.
	which is heard at the start or immediately	The noise is heard when the drainage pump
	after the stop of defrosting operation.	is in operation.
	A continuous low "shah" sound is heard	
	when the system is in cooling operation or	
	at a stop.	
		This is caused by the panel expanding or
	Cracking noise can be heard during or after	contracting due to the change in
	operation.	temperature.
Dust from the units	Starting operation after not using for a long	Dust absorbed by the unit blows out
	time.	
Wind from the outlet	During operation	This is caused by the odors in the room
smells		which have gotten onto the air conditioner

Installation notes

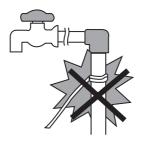
Location	Noise
 The air conditioner must be firmly installed and 3~4 liability checks must be done every year. Avoid place whthin easy reach of young children. Avoid other heat sources or direct sun light. Install indoor unit away from TV set or radio. Avoid where inflammable gas is likely to leak. At salty coastal areas or special areas such as the vicinity of a sulphurous hot spring, please contact dealer before installation to make sure it is safe to use the unit. Not to be installed in laundries. 	 Select a place with good ventilation or it may affect performance or increase noise. Install the air conditioner on a foundation that can withstand its weight.insufficient strength may result in the fall of equipment and cause injury. Select a place so as not to annoy neighbor with the hot air or noise. Never place objects near the air outlet or the unit, it may affect performance or increase noise. If there is abnormal noise during the operating, contact dealer immediately.
Installation and transportation	Wiring arrangement
 Installation and transportation of the unit must be done by skilled personnel. Be sure to use only the specified accessories and parts for installation, failure to use may lead to electric shock, leakage or fire. Carry out installation with consideration of strong winds, typhoons, or earthquakes. Improper installation work may result in accidents due to fall of equipment. If the unit is to be moved to other place, please consult dealer first. The suction grille must be opened by skilled personnel. 	 Make sure wiring is carried out by qualified personnel according to laws and regulations and this manual, using a separate circuit and suitable fuse. Be sure to install an earth leakage breaker. Diameter of power supply cord must be big enough. (Refer to P24 about the sizes of diameter) If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similary qualified person in order to avoid a hazard. The appliance shall be installed in accordance with relative wiring regulations.

E arthB e sure to connect the earth wire to earth device of the building. Install an earth leakage breaker.B e sure to install enough ampere rating air power switch. (specifications are illustrated in the following
table) Do not connect the earth wire to gas or water pipes, lightning condutor or telephone earth wire.

Model	Air power switch
ASC-24A	25A
ASC-36A ASC-42A	20A

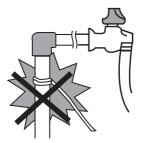
Water pipe

Some parts of the water pipe are made of plastic materials and not suitable for earthing.

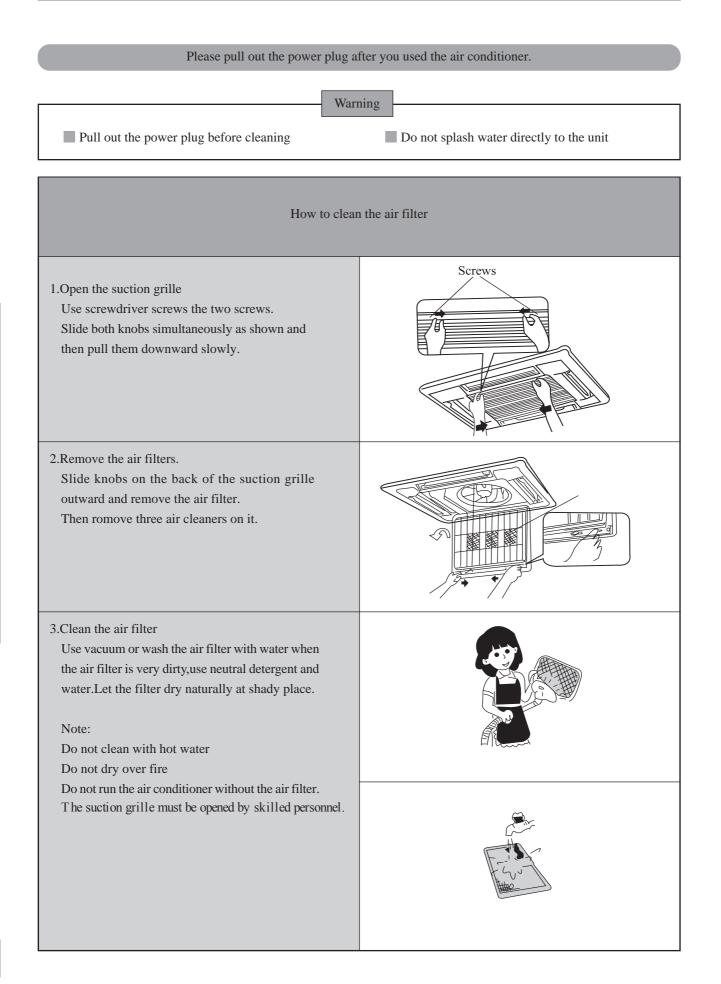


Gas pipe

If there is electrical leakage accidently from air conditioner, it is easy to cause fire or explosion.

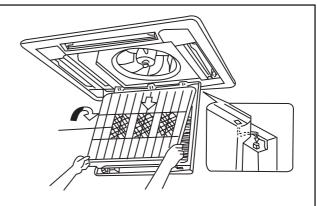


Care and maintenance



4.Fix the air filters

- Fix three air cleaner on the air filter and then fix the air filter to the suction grille by hanging it to the projected portion above suction grille.
- Set air filter by sliding the knob on the back of the suction grille inward.



Shut the suction grille.

Refer to step 1.

How to clean the suction grille				
1.Open the suction grille.	See step 1 of "How to clean the air filter"			
2.Remove the air filters.	See step 2 of "How to clean the air filter"			
3.Remove the suction grille Open the suction grille at 45° and then lift.				
4.Wash with water.When the suction grille is very dirty, use soft brush and neutral detergent. Shake off water and dry in a shady place.Notes: Do not wash with hot water.				
5.Fix the suction grille	Refer to step 3.			
6.Fix the air filter.	See step 4 of "How to clean the air filter"			
7.Close the suction grille	Refer to step 1.			

Care and maintenance

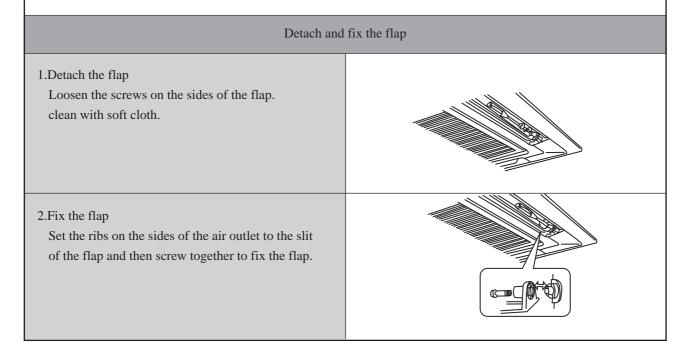
Changing air cleaner				
1.Open the suction grille	See step 1 of "How to clean the air filter"			
2.Remove the air cleaner Remove the air filter,and remove the air cleaner affter unscrewing.				
3.Take off packing bag and put in new static electricity fiber filer,then fix them on the air filter.				
4.Fix the air filter	See step 4 of "How to clean the air filter"			
Air cleaner functions and service cycle time				

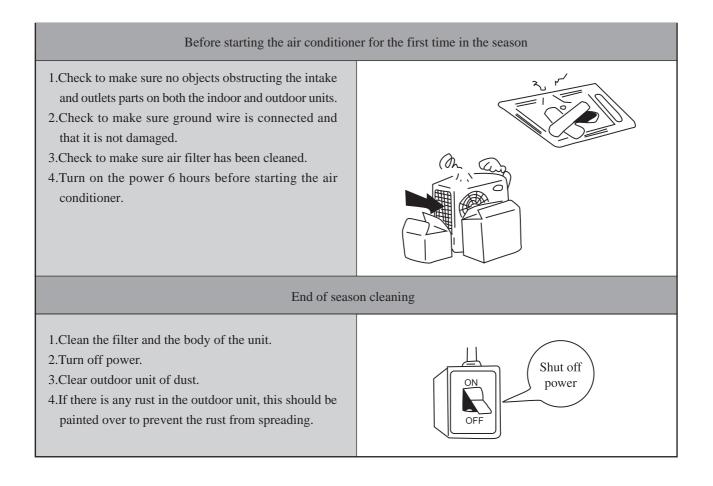
- Absorbs bad smell in air such as carbon monoxide carbon dioxide, benzol, gasoline and so on.
- Absorbs harmful objects bigger than 1.0 um in air such as dust, flower power, germ, virus and so on.
- It can be used for about half a year to one year.

Care and maintenance

How to clean the air outlet and case.

- Clean with soft cloth or use water and neutral detergent.
- Do not use gasoline, benzene, thiner, polishing powder, liquid insecticide, which may cause discoloring or warping. If the air flow flap is very dirty, you may remove it to clean as shown below.





Technical specification

Cooling/heating 6.2/5.48 ASC-42A R410A 8.8/9.0 1860 53/63 11.5 3.6 12000 12500 38/6.5/112 $3N-380V \sim 400V \sim 50Hz$ Cooling/heating ASC-36A 5.8/4.6 R410A 6.5/6.3 1860 10000 10500 IP24 52/62 3.5 10.4 Ħ ____ ī 220-230V~ 50Hz 30/6.5/75 Cooling/heating 14.5/14.5 R410A 3.7/3.8 ASC-24A 1180 47/59 2.4 7000 7500 16 Anti-electric shock protection Recycling air volume(m³/h) Noise(indoor/outdoor)(dB (A)) Rated voltage and frequency Cooling capacity(w) Heating capacity(w) Waterproof level Cooling/Heating Rated power(kW) Cooling/Heating I nput current(A) Current input(A) And weight(kg) Refrigerant Functions Maximum Weight(kg) Climate M odel

Technical specifications

* Data listed above may be changed without informing the consumers;

Outdoor:95 \times 84 \times 41.2

Main unit:84 \times 84 \times 24 Panel:95 \times 95 \times 6

(main unit/panel/outdoor)

(width* height* depth)

Dimension(cm)

Outdoor:95 \times 124 \times 41.2

M ain unit:84 \times 84 \times 32 Panel:95 \times 95 \times 6

* Please see the nameplate for actual data.

24

Technical specifications

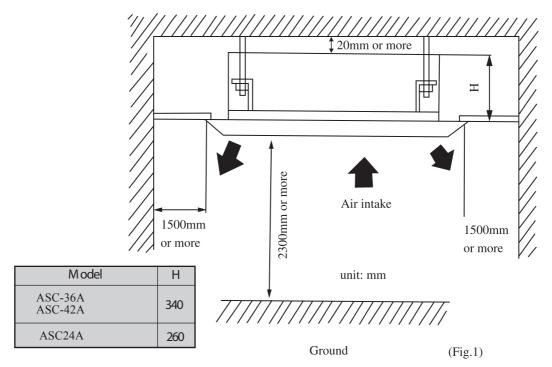
Installation accessories and drawings

Accessories

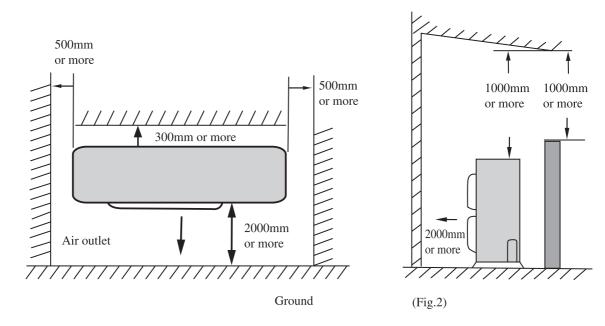
	Name	Shape	Quantity	Specification	Notes
1	Drainage hose	0	1		
2	Clamp		1		
3	Washer	6	10	10	
4	Clamp		4	L=200	
5	Paper pad for installaition	\diamond	1		
6	Screws		4	ST4.8 imes13-F	
7	Washer fixing plate	B	4		
8	Insulation for gas pipe		1		
9	Insulation for liquid pipe	O REAL	1		
10	Big sealing pad		1	5 imes 160 $ imes$ 300	
11	Sealing pad		1	5 imes45 imes300	
12	Small sealing pad		2	3 imes 30 imes 150	
13	Outdoor unit drainage head		1		
14	Sealing bar		1	120 imes 65 imes 25	
15	PVC tape		2	30 × 10	
16	R emote controller		1		
17	Battery	€]+ -)	2	AAA 1.5V	
18	Plastic sleeve		1		
19	Power supply wire		1		
20	Power connecting wire		1		
21	Corrugated pipe	Contraction	4		
22	Air cleaner hold	63	3		
23	Air cleaner		3		
24	Screws	$\blacksquare \boxtimes$	8	ST4.2 imes 9.5PA	
25	Stem	\bigcirc	2		ASH-xxx used
26	Wire controller ZX4B-aV	25	1		

Installation drawings

Indoor unit



Outdoor unit



• Note:

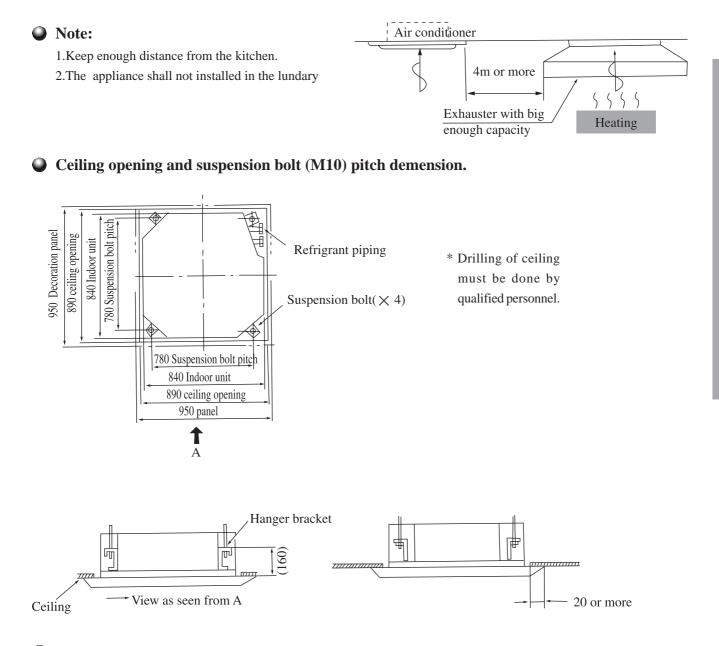
Air conditioner must be installed by skilled personnel according to this manual.

Indoor unit installation

Location

1.Do not place object near the air outlet so that conditioned air can reach the whole room.

- 2.Be sure to install the indoor unit firmly and horizontally.
- 3.Select the place that can support 4 times of the indoor unit's weight and will not increase noise and vibration.
- 4.Select a place easy to drain water and connect with the outdoor unit.
- 5.Make sure there is enough space for maintenance and make sure the distance between the unit and ground is 2.3m or more.
- 6.Make sure the suspension bolt pitch can hold 4 times of the indoor units's weight, otherwise, you should strengthen the suspension bolt pitch.



Note

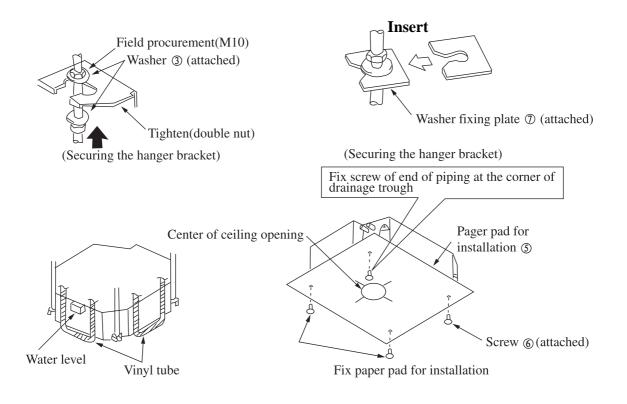
Installation is possible with a ceiling dimension of 890 (marked with * can be 910), but the ceiling-panel overlapping dimension must be 20mm or more.

Indoor unit installation

1.Install the indoor unit temporarily.

- Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer from the upper and lower sides of the hanger bracket. the washer fixing plate ⑦ will prevent the washer from falling.
- Refer to the paper pad for installation (5) for ceiling opening dimension.
- The center of the ceiling is indicated on the paper pad for installation, the center of the unit is indicated on the label attached to the unit and on the paper pad for installation.
- Fix the paper pad to the unit with screws (6) (\times 3)
- 3.Refer to diagram 3, adjust the unit.to the right position for installation.
- 4. Check if the unit is horizontally level.
- The indoor unit is equipped with a built-in drainage pump and float switch. At each of the unit's 4 corners, verify that it is level by using a water level or a water filled vinyl tube. (If the unit is tilted against condensate flow, the float switch my malfunction and cause water to drip.)

5.Remove the washer fixing plate ⑦ used for preventing the washer from falling and tighten the upper nut. 6.Remove the paper pad for installation ⑤.



Warning Tighten the nut to prevent the unit from falling.

Connection of refrigerant pipe

- Besure to use both a spanner and torque wrench together as shown in the drawing, connecting or disconnecting pipes to/from the unit.
- Refer to table 1 to determine the proper tightening torque (over tightening may damage the flare and cause leaks.)
- When conecting the flare nut, coat the flare both inside and outside with refrigerating machine oil and initially tighten by hand 3 or 4 turns.
- Check the pipe connector for gas leaks, then insulate it as shown in the drawing below.
- Use sealing pad (11) to wrap joint between gas pipe and the insulation(8).

Coat here with refrigerating machine oil

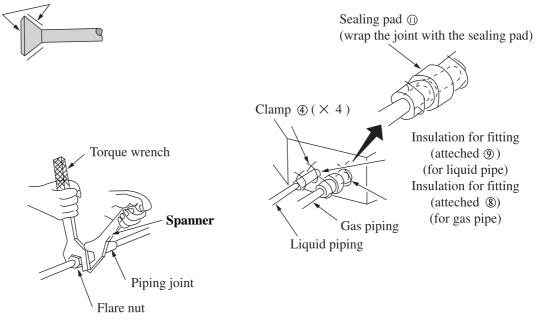


Table 1

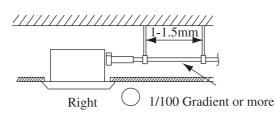
Pipe gauge	Tightening torque	Notes
Φ 9.52	30~40N.m	
Φ 16	60~65N.m	ASC-24A Add 30g ASC-36A Add 30g
Φ 12	45~50N.m	ASC-42A Add 30g
Ф 19	70~75N.m	

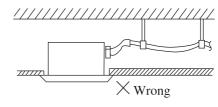
The maximum length for refrigerant piping is 25 meters ,when the length exceeds 10 meters, you should charge additional (refrigerant as shown in following for per-meter added).

Drainage pipe

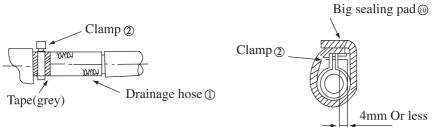
1.Installation of drainage pipe.

- The diameter of the drainage pipe should be greater than of equal to the diameter of the connecting pipe[vinyl tube, pipe size:25mm(outer dimension)]
- Keep the drainage pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming.
- If the drainage hose cannot be sufficiently set on a slope, add a drainage raising pipe.
- To keep the drainage hose from sagging, keep space between hanging hooks at $1 \sim 1.5$ m.



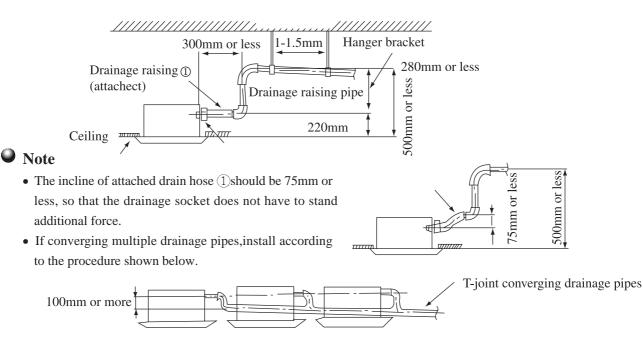


- Use the attached drainage hose ①and clamp②. Insert the drainage hose into the drainage socket up to the grey tape. Tighten the clamp until the screw head is less than 4 mm from the hose.
- Wrap the big sealing pad around clamp of the drainage hose to insulate.
- Insulate the drainage hose inside the room.



Precoutions for drainage raising pipe

- Install the drainage raising pipe at a height of less than 280 mm.
- Install the drainage raising pipe at a right angle to the indoor unit and no more than 300 mm from the unit.

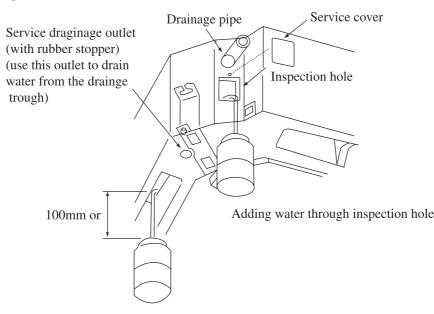


Select converging drainage pipes whose gauge is suitable for the operating capacity of the unit.

Indoor unit installation

- 2. After finishing installation, check if drainage water flows smoothly.
- Add approximately 600 cc of water to the drainage trough through air outlet or inspection hole slowly and check drainage flow.
- When electric wiring is finished, check drainage flow during cooling operation.

Method of adding water.



Warning:Befone obtaining access to terminals, all supply circuits must be disconnected.

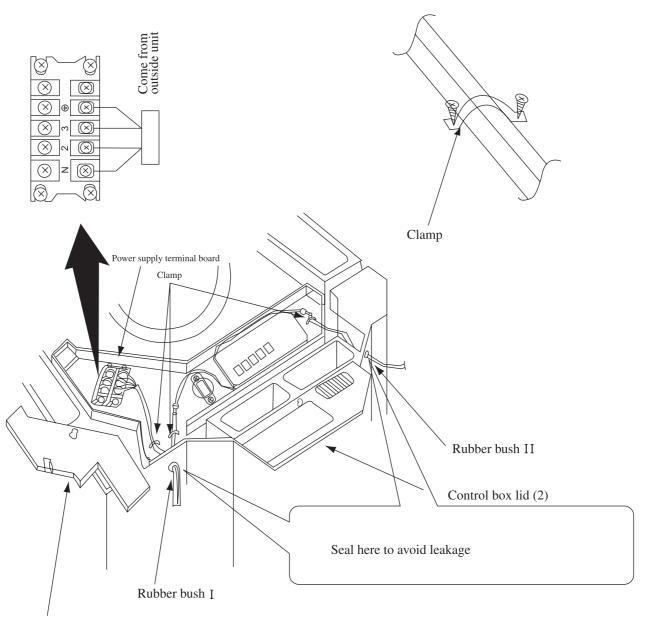
Electric wiring

- All field supplied parts and meterials must conform to local laws and regulations.
- For electric wiring, refer to "WIRING DIAGRAM" attached to the unit body.
- All wiring must be performed by a skilled technician.
- A circuit breaker capable of shutting down power supply to the entire system and which have at least 3 mm contact seperation in each jole must be install in the fixed wiring.
- Earth properly.
- Wiring must conform to national laws and regulations.
- The fixed wiring must be installed with a protector with no more that 30 mA leakage current.
- If the supply cord is damaged, it must be replaced by the manufactory or its service agents or a similarty qualified person in order to avoid a hazard.

Wiring of unit and the controller

- Wiring of the indoor unit.
- Remove the control box lid(1),pull the wires inside through rubber bush [and wiring according to the "WIRING DIAGRAM", then tighten it with clamp.
- Wiring of the controller
- Remove the control box lid(2), pull wires inside through rubber bush [] and connect to the controller.
- Wrap the wire with sealing pad(12).
- After wiring, tighten it with clamp and fix the control box lid(1),(2).
- Heating and cooling:connect the rubber wire (5-cords) to the power supply terminal board in properly.
- Cooling:connect the rubber wire (3-cords) to the power supply termiral board properly.

Indoor unit installation



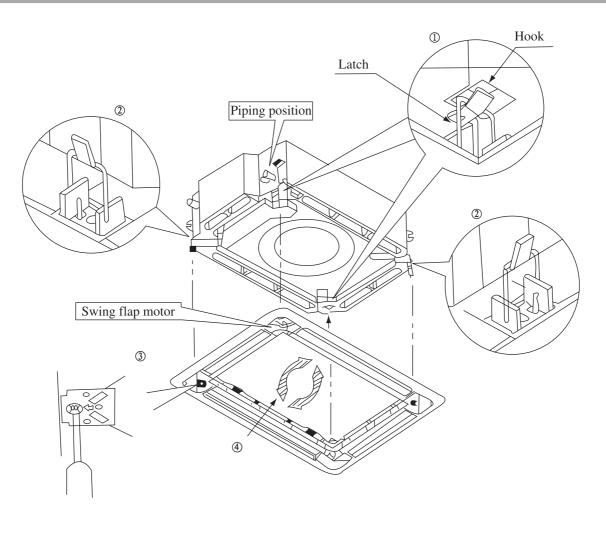
Control box lid (1)

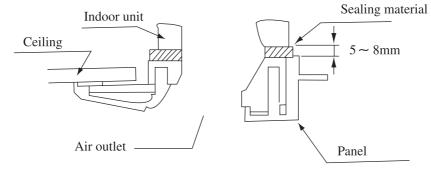
Precautions: Be sure to connect the indoor unit and outdoor unit at right poles.

Installation of panel

1.Set the panel to the indoor unit body by matching the position of the swing flap motor of the decoration panel to the piping position of the panel to the piping position of the indoor unit as shown in fig.4.

- 2.Install the decoration panel
- (1) Hang the latch, which is located on the opposite side of the swing flap motor on the panel, temporarily to the book of the indoor unit. (2 Positions)
- (2) Temporarily hang the remaining 2 latches to the hooks on the sides of the indoor unit. (be careful not to let the swing motor lead wire get caught in the sealing material.)
- (3) Screw all 4 hexagon head screws located right beneath the latches in approximately 15mm.(panel will rise)
- (4) A djust the panel by turning it to the arrowed direction in Fig.4 so that the ceiling opening is completely covered.
- (5) Tighten the screws until the thickness of the sealing material between the panel and the indoor unit body is reduced to $5\sim$ 8 mm.

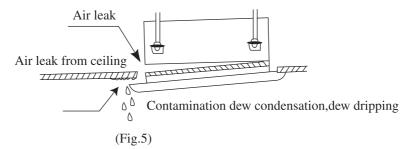




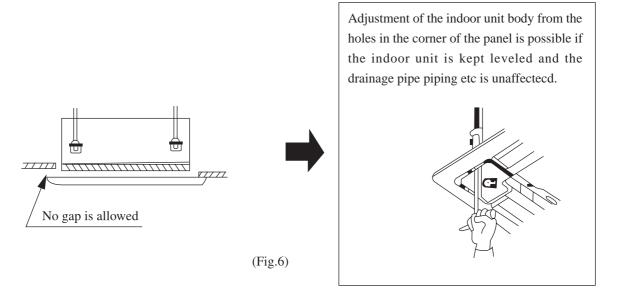
Precautions

(Fig.4)

1.Improper screwing of the screws may cause the troubles shown in Fig.5



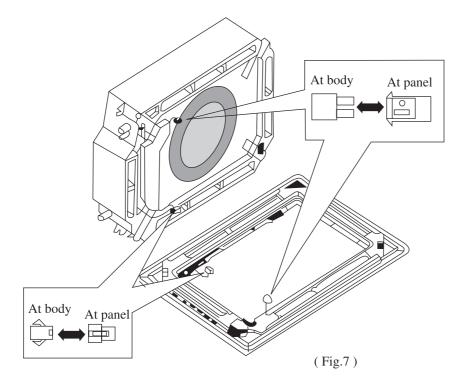
2. If gap is still left between the celling and the panel after screwing the screws, readjust height of the indoor unit body (Refer to Fig.6)



* After fixing, be sure no gap left between the ceiling and the panel

3. Wiring of the decoration panel.

(6) Connect the joints for swing flap motor lead wire(at 2 places) installed on the panel (Refer to Fig.7)



Selecting installation site

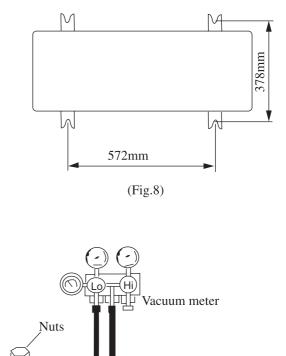
- Select an installation site where the following conditions are satisfied and that meets with your customer's approval.
- Places which are well-ventilated.
- Safe places which can withstand the unit's weight and vibration and where the unit can be installed level.
- Places where the unit does not bother next-door neighbors.
- Places where there is no possibility of flammable gas leak.
- Places where things distressed in water do not exist because water drains off the outdoor unit.
- Places where servicing space can be well ensured.
- Places where strong wind can not blow directly to outdoor unit.

Outdoor unit installation

- 1.Install the unit firmly with combination of M10 or more bolts and nuts on the foundation that can fully support the weight of the unit.and make sure the unit stand vertically.
- 2.Do not installing the unit on the top of building.
- 3.If there is noise caused by vibration add rubber between the unit and the foundation, Please.
- 4. When the air conditioner is heating or defrosting, drain water of the outdoor unit to an appropriate place with the drain hose.
- 5.Fixing method:Fix the outdoor drainage hose head in the hole of the chassis,then connect the drainage hose with the mouth of drainage pipe.

Air purging and leakage test

- 1. Take out the nut cover of the inlet for refrigerant.
- 2. Connect the tube of the vacuum watch with the vacuum pump, having the low-pressure end linking to the inlet for refrigerant.
- 3. Starting the vacuum pump, when the indicator turns to-1 bar, closing the low pressure handle and stopping vacuumize. keep for 15 minutes, ensuring the pressure of the vacuum watch remains.
- 4. Take out the valve cover of the gas valve together with the liquid valve.
- 5. Loosing the cord of liquid valve until the pressure rise to 0 bar.
- 6. Dismantle the tube from the cover of the inlet for refrigerant then, tighten the cover.
- 7. Loose the valve cord of the gas valve as well as the liquid valve entirely.
- 8. Tighten the valve cover of the gas valve and liquid valve so as to check whether leakage occurred.



(Fig.9)

Liquid pipe Gas pipe Vacuum pump

Outdoor unit installation

Electric wiring

(1) Read the name plate carefully, then arrange wiring according to the "WIRING DIAGRAM".

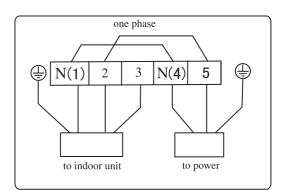
- (2) A circuit breaker capable of shutting down power supply to the entire system must be installed.
- (3) Earth properly.
- (4) All wiring must be perfomed by a skilled electrican according to the "WIRING DIAGRAM". Wrong wiring may cause fire of electric shock.

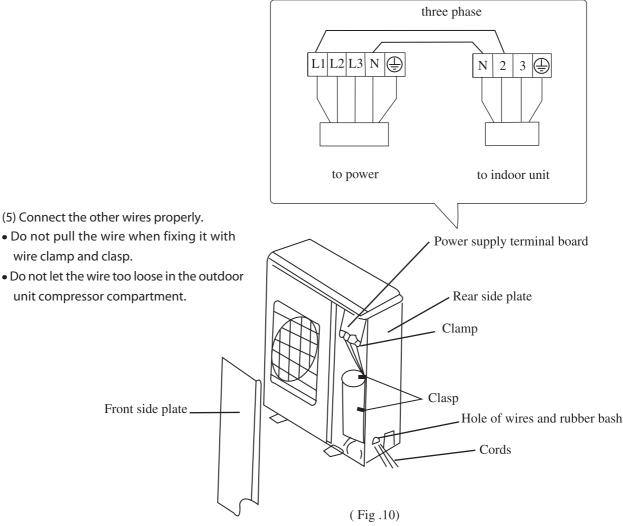
Connect the power connecting wires

- (1) Remove the front side plate (Fig. 11)
- (2) Break through the hole for wires and put on rubber bush.
- (3) Pull all wires through the rubber bush.
- (4) Connect the outdoor unit according to the"WIRING DIAGAM " of outdoor unit.Make sure to wire firmly.
- (5) Tighten the wires with clamp and clasp.

Note

- (1) Earth the units firmly.
- (2) W ire the units firmly.
- (3) Don't pull the connector too forcefully.





- Do not pull the wire when fixing it with wire clamp and clasp.
- Do not let the wire too loose in the outdoor unit compressor compartment.

Outdoor unit installation

Test operation

- 1. Prepare for test
- (1) Do not turn on the power switch before all installation is finsihed.
- (2) Connect wires correctly and firmly.
- (3) Open the check valve.
- (4) Remove all dust.
- 2. Testing
- (1) Turn on the power switch and press "ON/OFF" button.
- (2) Press "MODE" button select COOL,HEAT,FAN,etc to test whether it operates mormally.
- 3. Emergency operation.
- When the batteries fail or when the remote controller is missing, operate as shown below.
- * On stopping you can press the "AUTO" button on cover NO. [] until it is in "AUTO" mode. The air conditioner select from COOL,HEAT,DRY,FAN
- modes automatically.
- * On operating, press the "AUTO" button, the air conditioner will stop.

The "TEST" button on the cover No.]] is specially for testing the air conditioner.When pressing it, the air conditioner will be forced to operate or stop. Do not press it when air conditioner is in normal operation.

For the following items, take special care during construction and check after installation is finished.

Items to check	If not properly done, what is likely to happen	Check
Is the indoor unit fixed firmly?	The unit may drop, vibrate or make noise.	
Is the gas leak test finished?	It may result in insufficient cooling.	
Is the unit fully insulated?	Condensate water may drip.	
Does drainage flow smoothly?	Condensate water may drip.	
Does the power supply voltage correspond to	The unit may malfunction or the components burn	
that shown on the nameplate	out.	
Ano mining and siming compat?	The unit may malfunction or the components burn	
Are wiring and piping correct?	out.	
Is the unit safely grounded?	Risk of electric leakage.	
Is wiring size according to apositions?	The unit may malfunction or the components burn	
Is wiring size according to specifications?	out.	
Is something blocking the air outlet or intake	It may regult in oufficient appling	
of either the indoor or outdoor units?	It may result insufficient cooling.	
Have records of refrigerant piping length and	Volume of refrigerant charge in the system is not	
additional refrigerant charge been made?	clear.	

Note to the installer

Be sure to instruct the customer how to operate the system and show him/her the attached operation manual.

lacksquare

ENVIRONMENTAL INFORMATION

This unit contains fluorinated gases with greenhouse effect covered by the Kyoto Protocol. Maintenance and disposal must be carried out by qualified persons only. Refrigerant gas R410A, GWP = 1730

EXTRA REFRIGERANT CHARGE

Pursuant to Regulation EC 842/2006 on certain fluorinated greenhouse gases, in case of extra refrigerant charge, it is compulsory to:

- Fill in the label accompanying the unit inserting the factory quantity of refrigerant charge (see the technical label), the extra refrigerant charge and the total charge.
- Apply the label next to the technical label applied on the unit. For the split-type air conditioner apply on the outdoor unit.

