

CABINET TYPE AIR CONDITIONER OPERATION MANUAL AND INSTALLATION MANUAL



AP140S2SK1FA
AP140S2SK1FA(H)
AP160S2SK1FA(H)

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No.0150561435

- **This product must only be installed or serviced by qualified personnel. Please read this manual carefully before installation. This appliance is filled with R32. Keep this manual for future reference. Original instructions**



Haier

Haier Industrial Park, No.1 Haier road, Qingdao,P.R.China

EUROPEAN REGULATIONS CONFORMITY FOR THE MODELS

CE

All the products are in conformity with the following European provision:

- Low voltage Directive
- Electromagnetic Compatibility

ROHS

The products are fulfilled with the requirements in the directive 2011/65/EU of the European parliament and of council on the Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment(EU RoHS Directive)

WEEE

In accordance with the directive 2012/19/EU of the European parliament,herewith we inform the consumer about the disposal requirements of the electrical and electronic products.

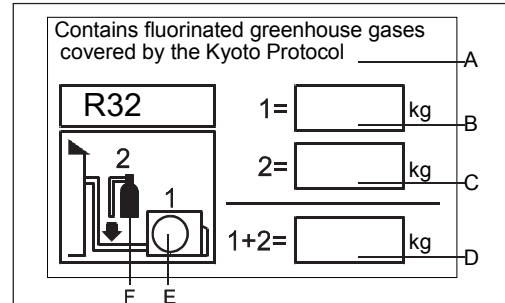
DISPOSAL REQUIREMENTS:



Your air conditioning product is marked with this symbol.This means that electrical and electronic products shall not be mixed with unsorted household waste.Do not try to dismantle the system yourself:the dismantling of the air

conditioning system,treatment of the refrigerant,of oil and of other part must be done by a qualified installer in accordance with relevant local and national legislation.Air conditioners must be treated at a specialized treatment facility for reuse, recycling and recovery.By ensuring this product is disposed of correctly,you will help to prevent potential negative consequences for the environment and humen health.Please contact the installer or local authority for more information. Battery must be removed from the remote controller and disposed of separately in accordance with relevant local and nationl legislation.

IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED



This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.Do not vent into the atmosphere.

Refrigerant type:R32

GWP: 675

GWP=global warming potential

Please fill in with indelible ink,

- 1 the factory refrigerant charge of the product
- 2 the additional refrigerant amount charged in the field and
- 1+2 the total refrigerant charge

on the refrigerant charge label supplied with the product. The filled out label must be adhered in the proximity of the product charging port(e.g.onto the inside of the stop value cover).

A contains fluorinated greenhouse gases covered by the Kyoto Protocol

B factory refrigerant charge of the product:see unit name plate

C additional refrigerant amount charged in the field

D total refrigerant charge

E outdoor unit

F refrigerant cylinder and manifold for charging

⚠ WARNING

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

The appliances are not intended to be operated by means of an external timer or separate remote-control system.

Keep the appliance and its cord out of reach of children less than 8 years.

Cautions

Disposal of the old air conditioner

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in a air conditioner can be recycled. Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damaged prior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal.

Disposal of the packaging of your new air conditioner

All the packaging materials employed in the package of your new air conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling. Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

Safety Instructions and Warnings

Before starting the air conditioner, read the information given in the User's Guide carefully. The User's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

- Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.
- Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.
- Installation shall be done by professional people, don't install unit by yourself.
- For the purpose of safety, the air conditioner must be properly grounded in accordance with specifications.
- Always remember to unplug the air conditioner before opening inlet grill. Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.
- All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditioner.
- Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.
- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.
- Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

Cautions

Specifications

- The refrigerating circuit is leak-proof.

The machine is adaptive in following situation

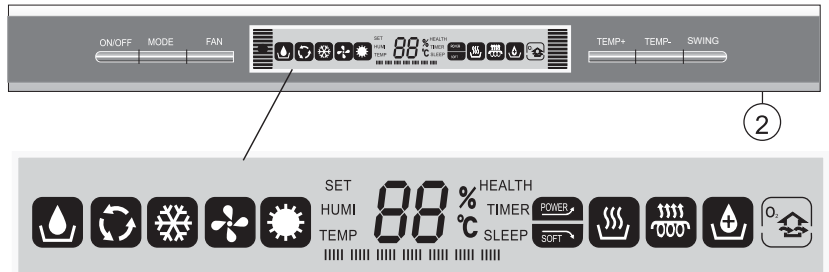
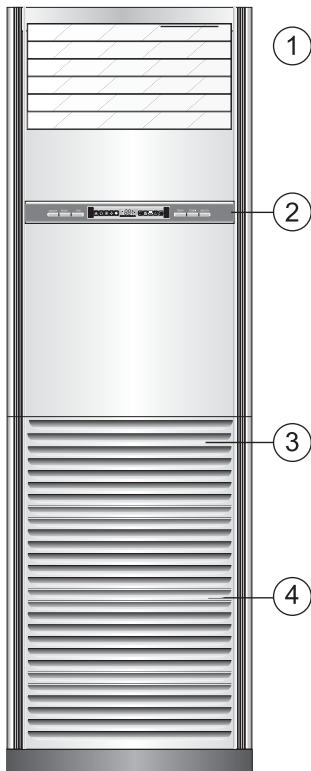
- Applicable ambient temperature range:

Cooling	Indoor temperature	max. DB/WB min. DB/WB	32/23°C 18/14°C
	Outdoor temperature	max. DB/WB min. DB/WB	46/26°C 10/6°C
Heating	Indoor temperature	max. DB/WB min. DB/WB	27°C 15°C
	Outdoor temperature	max. DB/WB min. DB/WB	24/18°C -15°C

- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.
- If the fuse on PC board is broken please change it with the type of T 3.15A /250VAC. Please check the circuit diagram about the fuse replaced.
- The wiring method should be in line with the local wiring standard.
- The power cable and connecting cable are self-provided. All the cables shall have got the local authentication certificate.
- The breaker of the air conditioner should be all-pole switch; and the distance between its two contacts should be no less 3mm. Such means for disconnection must be incorporation in the fixed wiring.
- The waste battery shall be disposed properly.

Parts and Functions

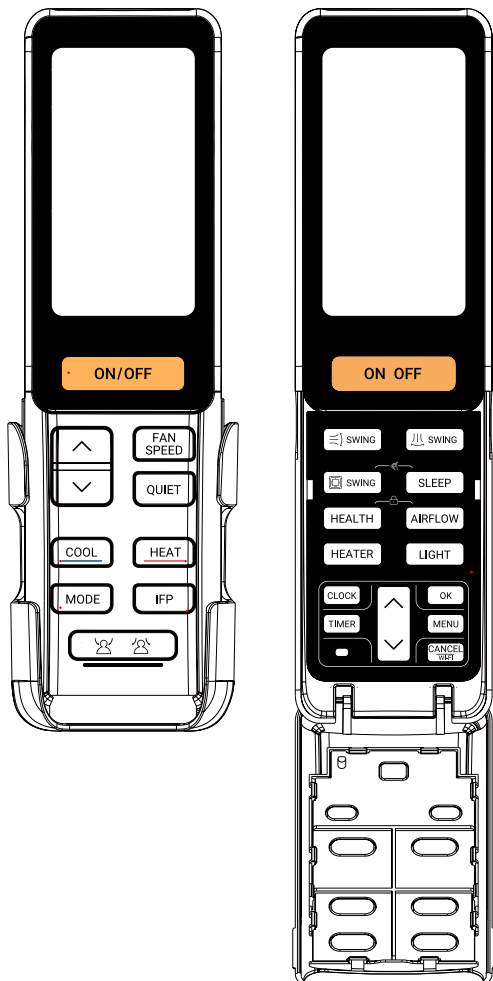
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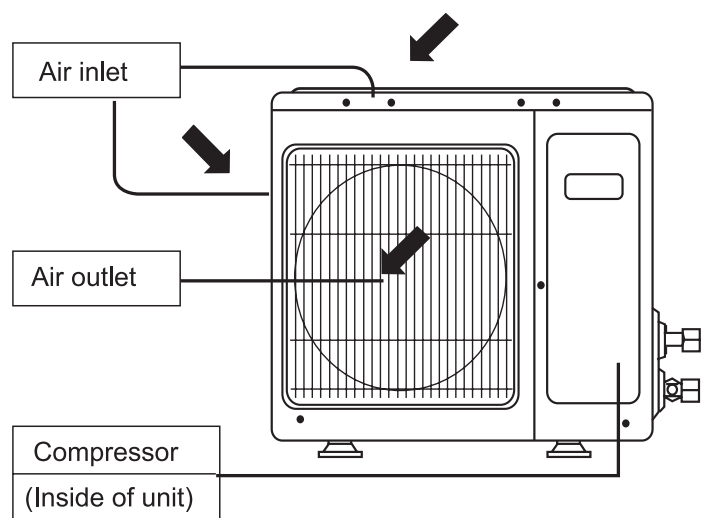
Indoor unit

- ① Outlet grill
- ② Operation panel
- ③ Inlet grill
- ④ Air filter (inside the unit)

Remote controller



Outdoor unit

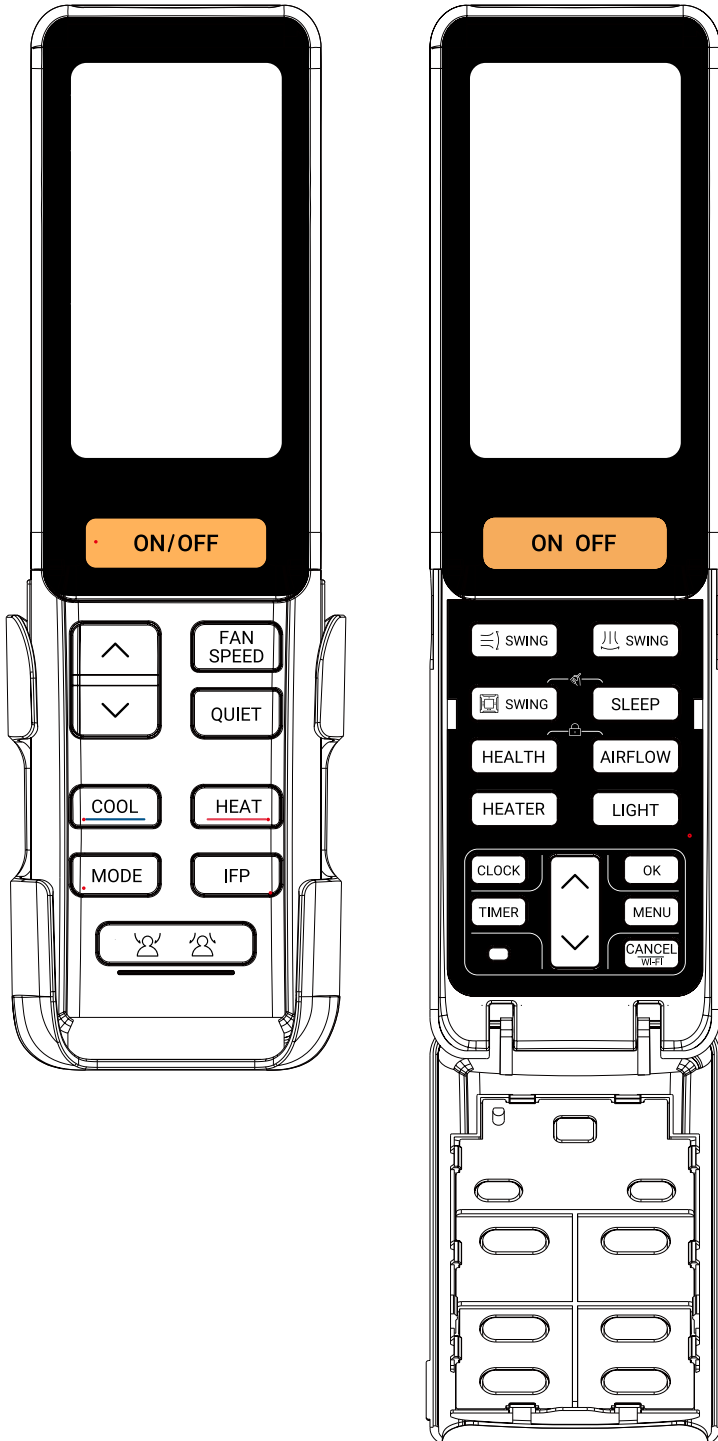


Parts and Functions

External View of Remote Controller

Remote Controller function description

This remote Controller is a general remote Controller, and some functions are valid according to the adaptable model.



Functional description

1.ON/OFF Button:


Turning on the units: Press the **ON/OFF** button to turning on the units.

Note: The initial default operation mode is AUTO and then will display the mode before turning off

Press **ON/OFF** button again to turn off the unit.

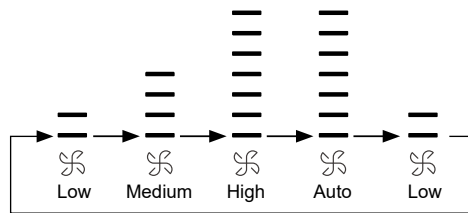
2. temperature +/- Button:

(1) This button is invalid in FAN mode;

(2) Press  button once, temperature will increase or decrease by 0.5°C; pressing and holding the button will make the temperature change quickly.

3. FAN SPEED Button:

Press the **FAN SPEED** button, the cycle sequence is as follows:



4. QUIET

Press **QUIET** button, the controller screen will display " QUIET ". The fan speed in Quiet function is automatic fan speed, but the specific fan speed grade in auto depends on indoor unit.

Note: This function is valid under the mode of COOL and HEAT.

5. COOL/ HEAT

Press **COOL** button and **HEAT** button to execute COOL mode and HEAT mode .




6. MODE




Press the **MODE** button every time, the cycle sequence is as follows:



7. IFP/

(1) Press **IFP** button, display "IFP", IFP function is set, and press **IFP** button again to cancel.

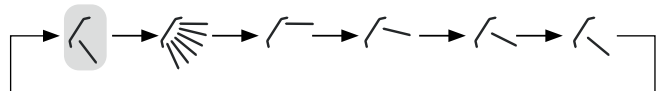
(2) Press  button, display  that expresses following; press it again, display  that expresses evading. Press it the third time to cancel this function.

(3) Airflow angle will adjust automatically along with the location of people. At the same time, ,  and  will disappear.

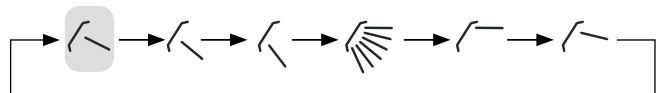
8. Up-and-down SWING Angle

Each time you press the button , Remote control display cycle sequence:

HEAT MODE:



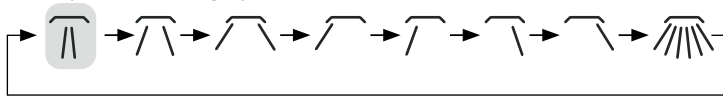
Other modes:




Operation

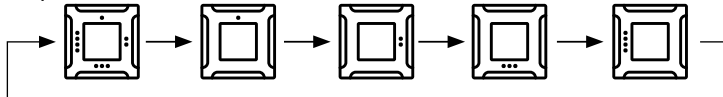
9. Right-and-left SWING Angle adjustment


Each time you press the button , the remote control will display the following cycle:





10. Round-way cassette swing angle adjustment

Each time you press the button , Remote control display cycle sequence:



When pressing  button to select blade, the selected blade flashes. Press "Up-and-down Angle" button to adjust airflow angle of the selected blade.



11. SLEEP

Press the  button, and the remote controller screen will display "Sleep". The SLEEP time is fixed to 8 hours and is not adjustable. Press the  button again, and the sleep function will be cancelled.


Note:


- (1) Sleep function is invalid in FAN mode.
- (2) Sleep function is only valid during the units turning on.

12. HEALTH


- (1) When the controller is switched on, press  button, health function is activated and the remote controller will display "HEALTH".
- (2) When the controller is turned off, press the  button, the controller will be turned on, enter FAN mode and display "HEALTH".
- (3) If the Health function is set and activated, Press Health button will cancel this function.


13. Health AIRFLOW

Press the  button and the remote controller screen displays "AIRFLOW".

Press  again to cancel this function.


14. HEATER

Press the  button, and the remote controller will display "HEATER".

Press  button again, the "HEATER" on the remote controller will disappear, and the HEATER function will be turned off.


Note: Heater function is only valid in AUTO and HEAT mode.

15. LIGHT

Press the  button to activate the light function.

Press the  button again, and the light function is off.

16. CLOCK

Press the  button, the time displayed on the remote controller


flashes. Then Press the  button once, the time increases or


decreases by one minute. Holding the button will quickly increase or decrease the time.

To complete the set time, press  /  button again to confirm.


17. TIME

(1) When the controller is on, you can only set the TIMER OFF. And when the controller is off, you can only set the TIMER ON.



When the remote controller is off, press the  button to enter the TIMER ON adjustment state.

Press the  button under the starting state of the remote control to enter the TIMER OFF adjustment state.




When entering the timing adjustment process, timer ON/OFF icon and clock flash at the same time, the initial default value is:



12:00. Press the  button once to increase or decrease the time

by 1 minutes, pressing and holding the button will speed up the adjustment.


After the time adjustment is completed, press the  /  button again to confirm. Then the time will statically display, and start the countdown.

18. MENU

Press the  button, Functional cycle is as follows: TURBO → FRESH → IFP AC OFF → IFP AC ECO → 3D AIR(reserved) →  →  → 10°C heating (Only valid in HEAT mode) → °F / °C → TURBO

1. Press  button, the current function to be set flashes;
2. Press  button again to set/cancel the current setting function in the above sequence. If there is no operation in 5 seconds, it will exit automatically.

19. Wi-Fi Configuration

Press  button 3S to enter Wi-Fi configuration, remote controller displays COOL mode, LOW fan speed and 30°C. Or you can enter the Wi-Fi configuration through setting Cooling mode, Low fan speed and 30°C.




20. SELF-CLEAN




Press the combined button  and , and the remote controller will display "SELF-CLEAN".

Press  button or  button to exit the self-cleaning function.

Note: The "SELF-CLEAN" function is invalid under "SLEEP" function and "TIMER" function.

21. LOCK

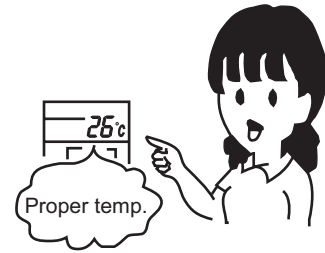
Press the combination key button  and , and the remote controller screen will display "  ". All buttons on the remote control are invalid.

Press the combination button  and  again to cancel the lock, "  " disappear. All buttons on the controller will restore to be valid.

Energy Saving

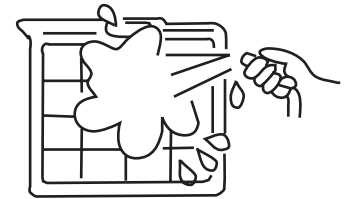
Keep proper room temperature

Too cold or too warm is no good to your health, and power consumption will be increased as well.



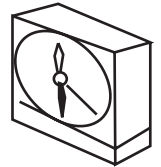
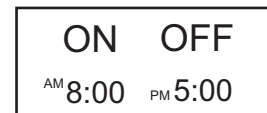
Air filter should be periodically cleaned

If air filter is clogged, it will cause poor cooling and heating efficiency, higher power consumption and even problem may occur. In cooling operation, water will flow out.



Use Timer effectively

You may use Timer mode to keep a comfortable room temp. when you wake up or come home from outside.



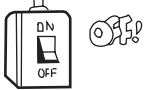


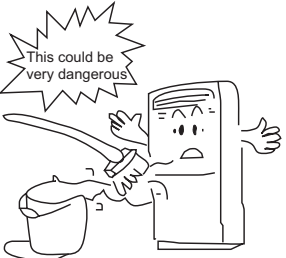
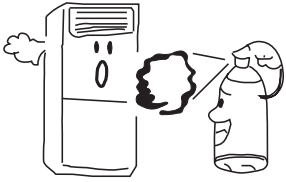
Avoid direct sunlight and air flow



Adjust air flow properly

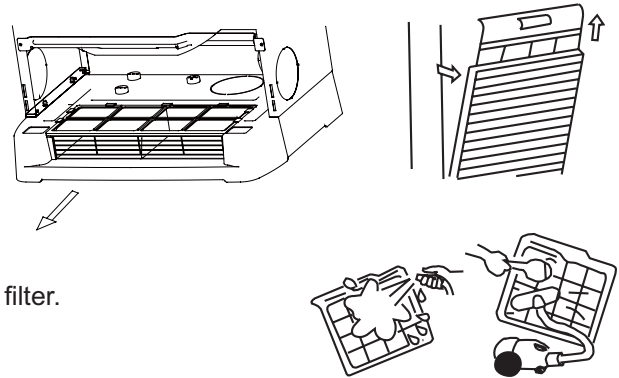


Maintenance

<p>Disconnect power supply</p> 	<p>Don't touch it with wet hand</p> 	<p>Don't wash with hot water or solvent to clean the unit</p> 
<p>Don't splash water directly on indoor unit.</p> 	<p>Don't spray any paint or insecticide on the unit.</p>  <p>This will cause damage or even fire accident.</p>	

Air filter cleaning

- Pull it out from top as shown in Fig.
- Use water or vacuum cleaner to clean it. If it is extremely dirty, wash it with neutral detergent or soap water.
- Wash it with clean water and install it after complete dry.



Caution:

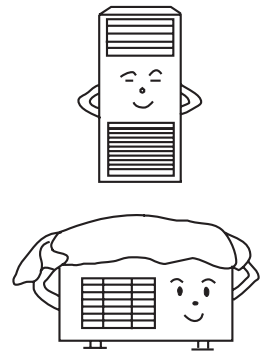
- Don't use hot water over 40°C, as this may cause damage to air filter. Wipe air filter carefully.

Indoor and outdoor cleaning

- Clean it with warm and wet cloth or with neutral detergent, then wipe it dry with clean and soft cloth.
- If air conditioner is very dirty, clean it with cloth soaked in neutral detergent, then wipe off the detergent with clean water.
- Don't use water higher than 40°C, which will cause discoloring and deformation.
- Don't use insecticide or other chemical detergents.

After season maintenance

- Let the unit run in Fan mode for half a day in a fine weather to dry completely the unit inside.
- Turn off the unit and pull out power plug. Otherwise, there might be certain power consumption even if the unit is stopped.
- Clean air filter and indoor unit, cover outdoor unit after cleaning.







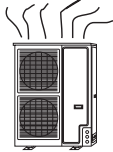

Before season maintenance

- Check if there are obstacles at inlet and outlet of indoor and outdoor unit, which will reduce unit efficiency.
- Don't fail to attach air filter after making sure it is cleaned. Dust will enter into unit causing damages or faults if it is running without air filter.
- To protect compressor at start, please connect external power supply to the unit 12 hrs prior to starting. Also please keep the power supply switch ON during the whole season.



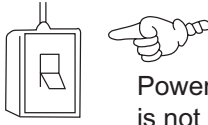
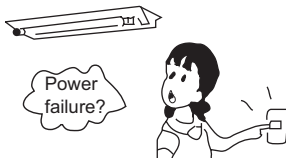
Troubleshooting

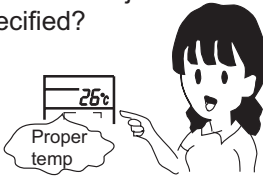
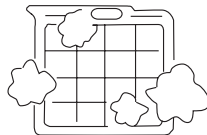

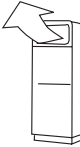
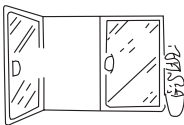
Followings are not problems

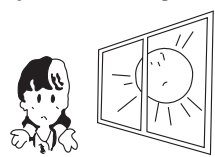


<p>Sound of water flowings are not problems.</p> 	<p>During unit start and operation or at stop, a swishing or gurgling noise may be heard. This noise is generated by refrigerant flowing in the system.</p>
<p>Sound of cracking is heard.</p>	<p>During unit operation, a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes.</p>
<p>Smells are generated.</p>	<p>This is because the system circulates smells from the interior air such as the smell of cigarettes or the painting on the unit.</p>
<p>During operation, white fog or steam comes out of indoor unit.</p> 	<p>When unit is running at places like restaurant where dense edible oil fumes always exist, this will happen.</p>
<p>In cooling operation, unit switches to fan operation.</p>	<p>To prevent frost from accumulating on indoor heat exchanger, unit will switch to fan operation for a while and then resume cooling operation.</p>
<p>Unit will not restart after stop.</p> <p>Won't start?</p> 	<p>Though ON/OFF button is set to ON, the unit won't resume cooling, dry or heating operation in 3 min after it is stopped, this is because of 3-min-delay protection circuit.</p>  <p>Please wait 3 minutes</p>
<p>No outlet air or fan speed can't be changed in dry mode.</p>	<p>Unit will reduce fan speed repeatedly and automatically if room temp. is too low in dry operation.</p>
<p>In heating operation, water or steam are blown out of indoor unit.</p> 	<p>This occurs when frost accumulated on the outdoor unit is removed. (during defrosting operation)</p> 
<p>In heating operation, indoor fan won't stop even if unit is stopped.</p>	<p>After unit stops, indoor fan will go on running until indoor unit cools down.</p>

Troubleshooting

Before asking services, please firstly check your unit according to following.

Air conditioner won't start.		
<p>Is power supply switch turned on?</p>  <p>Power supply switch is not set at ON.</p>	<p>Is city power supply normal?</p>  <p>Power failure?</p>	<p>Is leakage current breaker activated?</p> <p>This is very dangerous, please disconnect power supply immediately and contact your dealer.</p>

Poor cooling or heating		
<p>Are operation controls adjusted correctly as specified?</p>  <p>Proper temp</p>	<p>Is air filter too dirty?</p> 	<p>Are there any obstacles at inlet or outlet grill?</p> 
<p>Are horizontal louvers at up position (in heating mode)?</p> 	<p>Any doors or windows left open?</p> 	

Poor cooling		
<p>Is there any direct sunlight in the room?</p> 	<p>If there are unexpected heat sources in the room?</p> 	<p>Too many people in the room?</p> 

If your unit still can't work properly after above mentioned checks, or following problems occur, please stop it immediately and contact your dealer.

- Fuses or circuit breakers often blow out.
- Water comes out in cooling/dry operation.
- Operation is abnormal or sound is heard.

Troubleshooting

When failure happens,the fan of indoor unit stop running.The method of check failure code as follow.

Diagnosis

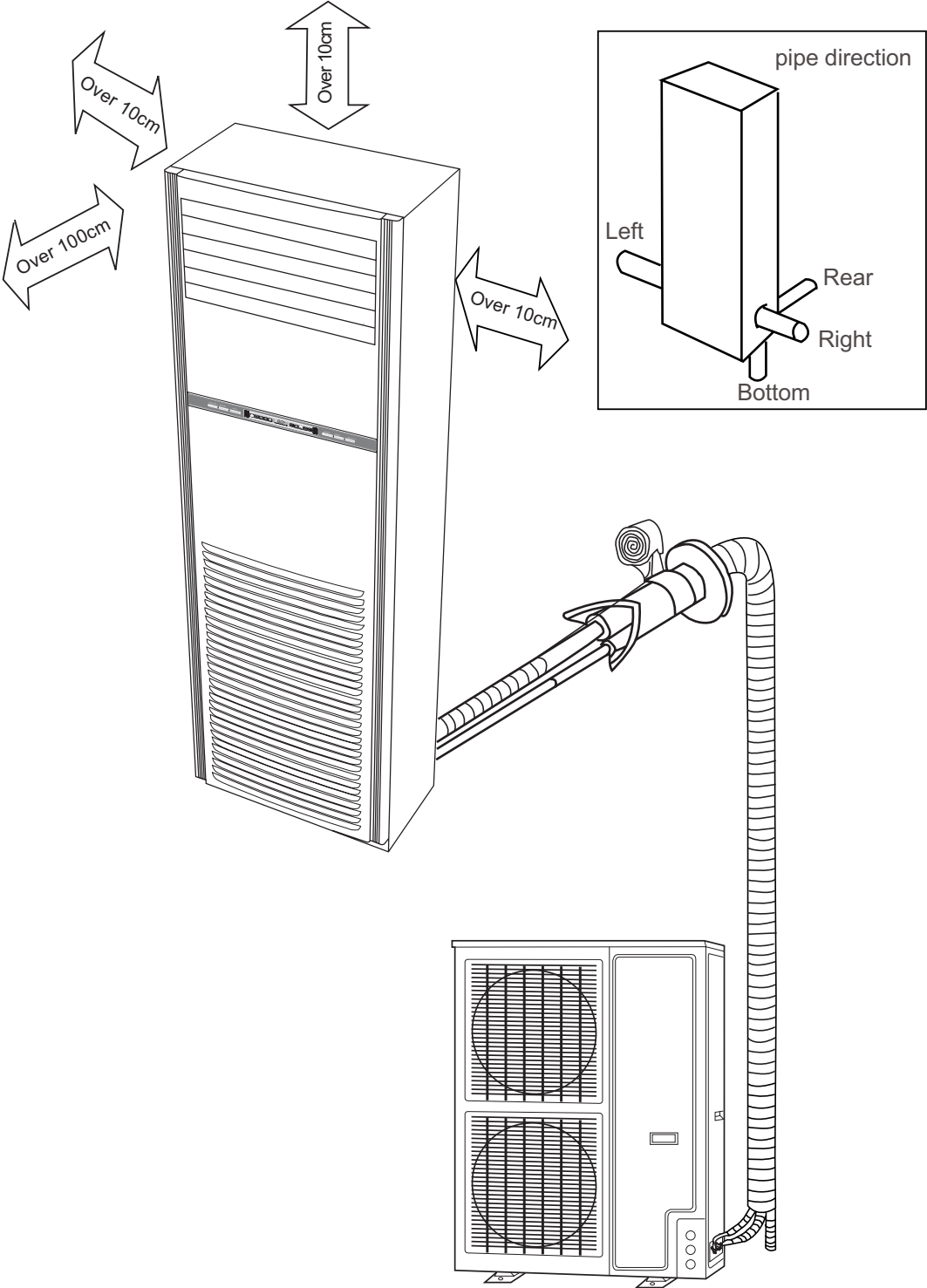
LED flash times of indoor PCB		Malfunction display	Contents of Malfunction	Possible reasons
LED6	LED1			
0	1	E1	Malfunction of indoor unit ambient temperature sensor	Sensor disconnected,or broken,or at wrong position,or short circuit
0	2	E2	Malfunction of indoor unit piping temperature sensor	Sensor disconnected,or broken,or at wrong position,or short circuit
0	6	E6	Outdoor high pressure exceeds the setpoint	The pressure switch is damaged or bad control board
0	7	E7	Over-voltage protection	The power supply voltage,or the control board is damaged
0	8	E8	Abnormal communication between wired controller and indoor unit	Wrong connection or wired controller broken,or PCB faulty
0	9	E9	Indoor and outdoor unit communication failure	Indoor or outdoor control board is damaged; or the communication wiring is damaged
0	14	EA	Indoor unit DC fan motor abnormal	DC Fan motor disconnected,or DC Fan broken or circuit broken
0	/	FC	Indoor pipe temperature is too high	The compressor is not running or damaged

Note:

1. The outdoor failure can also be indicated by the indoor unit,the checking method as follows: LED6 flash times stands for ten's place,and LED1 flash times stands for one's place, use this tendigit number minus 20,then will get the outdoor error code.For example,if the outdoor error code is 15,LED6 will flash 3 times firstly,two seconds later,LED1 will flash 5 times , and four seconds later the process will repeat again.
2. LED6 is a green one on the indoor PCB,LED1 is a yellow one.
3. To get much more details about the out door unit failure,please refer to the outdoor unit trouble shooting list.

Indoor & Outdoor Unit Connection

Installation figure please refers to AP160S2SK1FA(H)



Tools necessary

1. Screw driver
2. Hacksaw
3. 70mm dia. hole core drill
4. Spanner (dia. 22, 36mm)
5. Spanner (16, 18, 22, 36mm)
6. Pipe cutter
7. Flaring tool
8. Knife
9. Nipper
10. Gas leakage detector or soap water
11. Measuring tape
12. Reamer
13. Refrigerant oil

Installation accessories

Following parts shall be field supplied

Part name
Adhesive tape
Pipe clip
Connecting hose
Insulation material
Putty
Drain hose

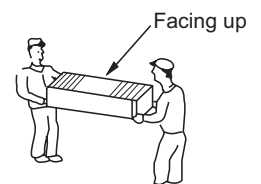
Installation Procedure

Outdoor Unit

Before installation

- Try to bring the packed unit to the installation place.
- When it is inevitable to unpack the unit, be careful not to damage the unit. Wrap it with nylon etc.
- After unpacking, be sure to put it with the front side of the unit facing up.
- When delivering, don't hold plastic parts like inlet and outlet grill etc.

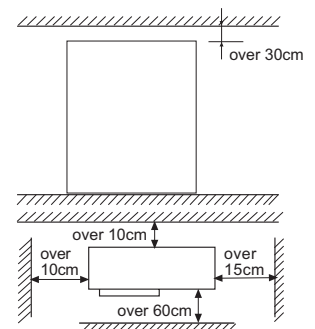
Delivery



Installation of outdoor unit

Selection of outdoor unit installation place

- Place strong enough to support the unit and will not cause vibration and noise.
- Place where discharged wind and noise doesn't cause a nuisance to the neighbors.
- Place where is less affected by rain or direct sunlight and is sufficiently ventilated, or to install a shield.
- Place with enough space for smooth air flow.



Fixing of the outdoor unit

- Fix outdoor unit using M10 bolt to concrete floor horizontally.
- If installed on the wall or on top of a roof, bracket should be fixed securely to resist earthquake or storms.
- Use rubber pad during installation against unit vibration.

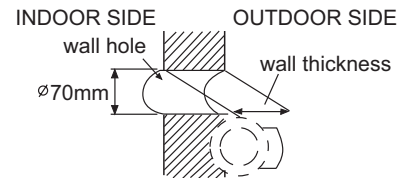
Selection of indoor unit installation place

- Place where it is easy to route drainage pipe and outdoor piping.
- Place away from heat source and with less direct sunlight.
- Place where cool and warm air could be delivered evenly to every corner of the room.
- Place near power supply socket. Leave enough space around the unit (refer to installation drawings).

Installation of indoor unit

1. Position of the wall hole

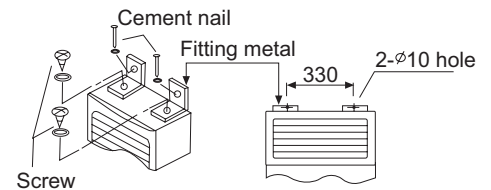
Wall hole should be decided according to installation place and piping direction. (refer to installation drawings)



(Cross section of wall hole)

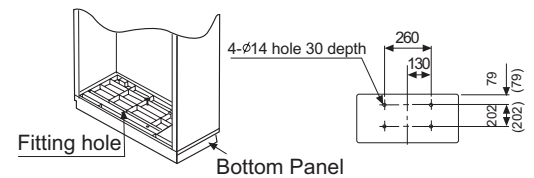
2. Making a wall hole

Drill a hole of 70mm dia. with a little slope towards outside.
Install piping hole cover and seal it with putty after installation.

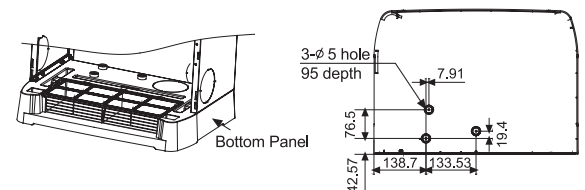


3. Fixing of indoor unit

With the unit set up vertically, fix the fitting metal to the unit with screws, then fix the fitting metal to the wall with cement nail and washer, as shown right:



Moreover, if wanting to fix the unit more firmly, you should fix the bottom panel to the ground with concrete bolts, as shown right:



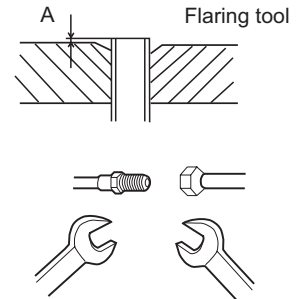
Connecting method

- Apply refrigerant oil at half union and flare nut.
- To bend a pipe, give the roundness as large as possible not to crash the pipe.
- When connecting pipe, hold the pipe centre to centre then screw nut on by hand, refer to Fig.
- Be careful not to let sundries, such as sands enter the pipe.

Pipe cutting and flaring

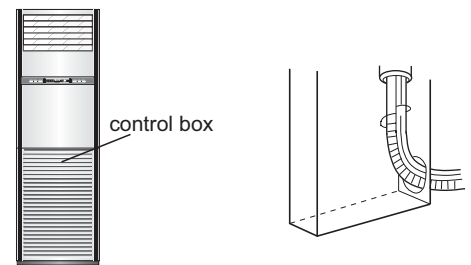
- Be sure to carry out deburring after pipe cutting with a pipe cutter.
- Insert flaring tool to make a flare.

Forced fastening without centering may damage the threads and cause a gas leakage.



	Pipe dia.
Liquid pipe	∅9.52mm (3/8")
Gas pipe	∅19.05mm(3/4")

Correct	Incorrect				
	Lean	Damaged flare	Crack	Partial	Too outside

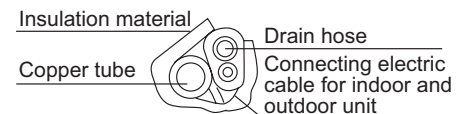


Piping connection of indoor unit

1. Arrangement of piping and drainage pipe

- After opening inlet grill, you will see a control box as shown in the Fig. Remove the cover before wiring work.

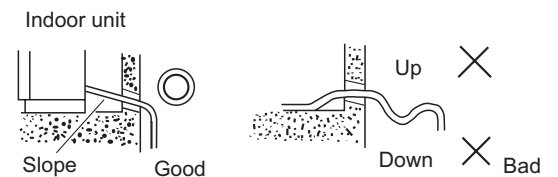
- Cut away, with a hammer or a saw, the lid for piping according to piping direction.



- According to the piping method, connect the piping on indoor unit with union of connecting pipe.
Arrange the piping as per the wall hole and bind drain hose, connecting electric cable and piping together with polyethylene tape.
Insert the bound piping, connecting electric cable and drain hose through wall hole to connect with outdoor unit.

2. Arrangement of drain hose

- Drain hose shall be placed in under place.
- There should be a slope when arrange drain hose. Avoid up and down waves in drain hose.
- If humidity is high, drain pipe(especially in room and indoor unit) must be covered with insulation material.



Piping connection of outdoor unit.

Connect the connecting pipe and inlet / outlet liquid pipe according to the piping method.

Vacuumizing

Discharge the air out of the indoor unit and the refrigerant pipe by vacuumizing.

- (1) Fasten all the nuts of the indoor and outdoor pipes to make these parts out of leakage.
- (2) Under the condition of the complete close of the indoor and outdoor valve center (both liquid and gas side), dismantle the service valve cap. Vacuumizing through the charge mouth of the service valve.
- (3) After vacuumizing, fasten the service valve and dismantle the cap of the big and small stop valve, then loosen the stop valve center completely and fasten the big and small stop valve.

Note:

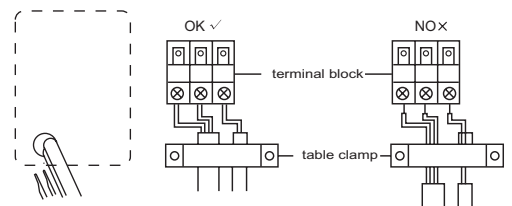
- Electrical wiring must be done by qualified person.
- The power supply connects from the outdoor unit.
- The connecting cable and power cable are self-provided.
- Use copper wire only.
- Air conditioner must use an exclusive line (over 30A)
- When installing air conditioner in a wet place, try to use a circuit breaker against current leakage.
- When installing in other places, use circuit breaker as far as possible.
- The breaker of the air conditioner should be all-pole switch; and the distance between its two contacts should be no less than 3 mm.
- Such means for disconnection must be incorporation in the fixed wiring

The parameter of connecting cable is H05RN-F 4G 2.5mm².

The parameter of the power cable should be over H07RN-F 5G 4.0mm²

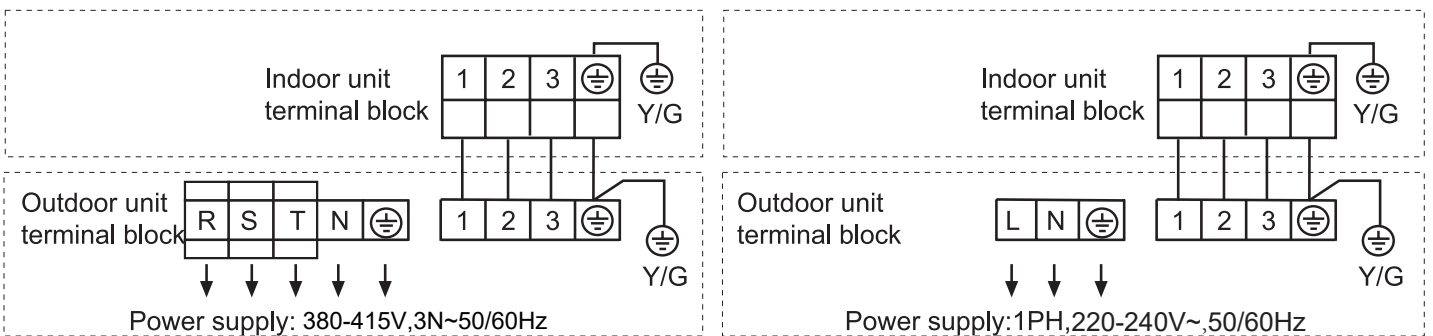
Wiring of indoor unit

- Insert the cable from outside the wall hole where piping already exist.
- Pull it out from front.
- Loosen terminal screws and insert cable end fully into terminal block, then tighten it.
- Pull the cable gently to make sure it is tight.
- Replace cover after wiring.



Wiring of outdoor unit

- Insert the cable from inside the wall hole where piping already exists.
- Pull it out from front.
- Loose terminal screw and insert cable end fully into terminal block, then tighten it.
- Pull the cable gently to make sure it is tight.
- Replace cover after wiring.



Note:

When connecting indoor and outdoor wire, check the number on indoor and outdoor terminal blocks. Incorrect wiring may damage air conditioner's controller or cause operation failure.

Installation inspection and test run:

Please operate unit according to this Manual.

Items to be checked during test run. Please make a "✓" in "□"

- Are there any gas leakage?
- How is insulation at piping connection carried out?
- Are electric wires of indoor and outdoor unit firmly inserted into terminal block?
- Is electric wiring of indoor and outdoor securely fixed?
- Is drainage securely carried out?
- Is earth line (grounding) securely connected?
- Is power supply voltage abided by the code?
- Is there any noise?
- Is control display normal?
- Is cooling operation normal?
- Is room temp. regulator normal?



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