

SPLIT TYPE ROOM AIR CONDITIONER OPERATION MANUAL



AS09GN3ERA
AS12GN3ERA
AS18GN3ERA
AS09GB2HRA
AS12GB2HRA
AS18GD2HRA
AS24GF2HRA

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- Please read this operation manual before using the air conditioner.
Keep this operation manual for future reference.

Cuidados

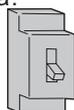
⚠ AVISO

Por favor ligue ao departamento de vendas/assistência técnica para a instalação.

Não tente instalar o aparelho de ar condicionado sozinho porque a instalação incorreta pode causar choque elétrico, fogo e fuga de água.

⚠ AVISO

Se notar alguma anormalidade como uma pequena queimadura, pare imediatamente o funcionamento e contacte o seu ponto de venda.



DESLIGAR



CUMPRIMENTO ESTRITO

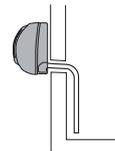
Use uma fonte de energia exclusiva equipada com um interruptor de circuito.



Garanta de forma segura que a instalação da drenagem está correta.



CUMPRIMENTO ESTRITO



Conecte bem o cabo de alimentação à tomada.



CUMPRIMENTO ESTRITO

Use a voltagem correta.



CUMPRIMENTO ESTRITO

1. Não use o cabo de alimentação estendido ou conectado a meio.

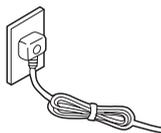
2. Não instale num espaço onde há possibilidade de haver uma fuga de gás à volta do aparelho.

3. Não exponha o aparelho a vapor de água ou óleo.



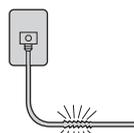
PROIBIÇÃO

Não amarre o cabo de alimentação.



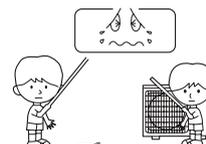
PROIBIÇÃO

Cuidado para não danificar o cabo de alimentação.



PROIBIÇÃO

Não insira objetos na saída e entrada de ar.



PROIBIÇÃO

Não inicie nem termine o funcionamento pela ligação ou desconexão do cabo de alimentação.



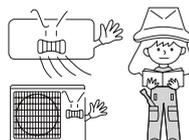
PROIBIÇÃO

Não dirija o fluxo de ar diretamente às pessoas, especialmente crianças ou idosos.

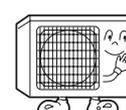


PROIBIÇÃO

Não tente reparar ou reconstruir sozinho.



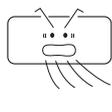
Ligação à terra.



Terra

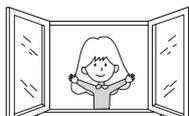
⚠ CUIDADO

Não use o aparelho para armazenar alimentos, obras de arte, equipamentos, criação ou cultivo.



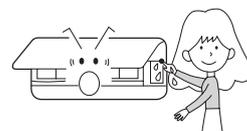
PROIBIÇÃO

Deixe entrar ar fresco ocasionalmente especialmente se um aparelho a gás estiver a funcionar ao mesmo tempo.



CUMPRIMENTO ESTRITO

Não ligue o interruptor com a mão molhada.



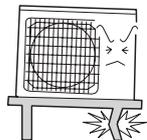
PROIBIÇÃO

Não instale a unidade perto de uma lareira ou de outros aparelhos de aquecimento.



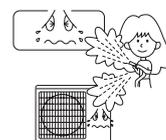
PROIBIÇÃO

Confirma as boas condições do suporte da unidade.



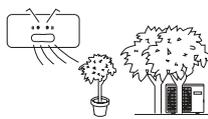
PROIBIÇÃO

Não molhe a unidade quando a limpar.



PROIBIÇÃO

Não coloque animais ou plantas na direção do fluxo de ar.



PROIBIÇÃO

Não coloque nenhum objeto na unidade nem suba para cima dela.

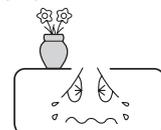


PROIBIÇÃO

Não coloque vasos de plantas, garrafas de água em cima do aparelho.



PROIBIÇÃO



Resolução de problemas

Cuidados

Antes de pedir assistência, leia o seguinte

	Acontecimento	Causas ou pontos de verificação
Inspeção do comportamento normal	O sistema não inicia imediatamente 	<ul style="list-style-type: none"> Quando a unidade é parada, esta não irá reiniciar até terem passado 3 minutos, para proteger o sistema. Quando a tomada elétrica é retirada e reinserida, o circuito de proteção é ativo durante 3 minutos para proteger o aparelho de ar condicionado.
	Ruído estranho 	<ul style="list-style-type: none"> Durante a operação da unidade ou na paragem, é possível que se ouça um sussurro ou gorgolejo. Nos primeiros 2 ou 3 minutos depois de a unidade iniciar, este barulho é mais audível. Este barulho é gerado pela refrigeração do sistema. Durante a operação da unidade, podem ouvir-se estalos, causado pela expansão ou diminuição da cobertura, devido às mudanças de temperatura. Caso haja um grande ruído do fluxo de ar durante a operação da unidade, o filtro de ar pode estar sujo.
	Gera odores	<ul style="list-style-type: none"> Isto é porque o sistema circula odores do interior tal como o odor a mobiliário, pintura ou cigarros.
	Vapor ou névoa é emitido 	<ul style="list-style-type: none"> Durante o modo COOL ou DRY, a unidade interior pode emitir uma névoa. Isto é devido à rápida refrigeração do ar interior.
	No modo DRY, a velocidade do ventilador não pode ser alterada.	<ul style="list-style-type: none"> No modo DRY, quando a temperatura ambiente é inferior à configurada + 2 °C, a velocidade do ventilador é ajustada para LOW, independentemente das configurações para o ventilador.
Inspeções múltiplas		<ul style="list-style-type: none"> O cabo de alimentação está ligado? Há um corte energético? Um fusível fundiu-se?
	Fraco arrefecimento 	<ul style="list-style-type: none"> O filtro de ar está sujo? Deve ser limpo de 15 em 15 dias. Há algum obstáculo na entrada ou saída de ar? A temperatura está correta? Há alguma porta ou janela aberta? Está a entrar luz solar direta através das janelas durante a operação? (usar cortinas). Há muitas fontes de aquecimento ou demasiadas pessoas no espaço durante a operação de refrigeração?

- Não obstrua nem cubra a grelha de ventilação do aparelho. Não ponha os seus dedos ou outras coisas nas grelhas de entrada e saída ou no aileron móvel.
- O aparelho não deve ser usado por crianças pequenas ou pessoas doentes com capacidades físicas, sensoriais ou mentais reduzidas ou falta de experiência e conhecimento, a não ser que tenham supervisão ou instrução da parte de uma pessoa com conhecimento.

Crianças pequenas devem ser supervisionadas de forma a garantir que estas não brincam com o aparelho.

Especificações

- O circuito de refrigeração está desenhado para não haver fugas.

A máquina adapta-se às seguintes situações:

1. Intervalo aplicável à temperatura de ambiente:

Refrigeração	Interior	Máximo	D.B/W.B	32 °C/23 °C
		Mínimo	D.B/W.B	21 °C/15 °C
	Exterior	Máximo	D.B/W.B	43 °C/26 °C
		Mínimo	D.B	18 °C
Aquecimento	Interior	Máximo	D.B	27 °C
		Mínimo	D.B	0 °C
	Exterior	Máximo	D.B/W.B	24 °C/18 °C
		Mínimo	D.B/W.B	-7 °C/-8 °C
(INVERTER)	Máximo	D.B/W.B	24 °C/18 °C	
	Mínimo	D.B	-15 °C	

2. Se o cabo de alimentação está danificado, deve ser substituído pelo fabricante, um assistente técnico ou uma pessoa igualmente qualificada.
3. Se se funde o fusível da placa PC da unidade interior, substitua pelo tipo T.3.15A/250V. Se se funde o fusível da unidade exterior, substitua por um de tipo T.25A/250V.
4. O método de fiação deve estar de acordo com as normas locais.
5. Depois da instalação, a tomada de eletricidade deve ser de fácil alcance.
6. A pilhas usadas devem ser acondicionadas corretamente.
7. Por favor use a tomada de eletricidade correta, que é adequada para o cabo de alimentação.
8. A ficha elétrica e o cabo de alimentação devem cumprir as normas locais.
9. Para proteger as unidades, por favor desligue o aparelho de ar condicionado primeiro, espere 30 segundos, e depois desligue da corrente.
- 10 Para proteger as unidades, por favor desligue o aparelho de ar condicionado primeiro, espere 30 segundos, e depois desligue da corrente.
11. Não insira nenhum sensor na válvula de encaixe de 3 vias.

Haier

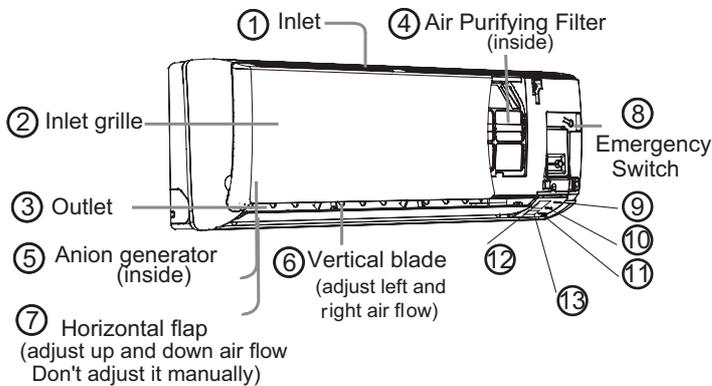
Endereço: No.1 Haier Road, Hi-tech Zone, Qingdao 26610 P.R.China

Contactos TEL +86-532-8893-6943; FAX +86-532-8893-1010

Website: www.haier.com

Parts and Functions

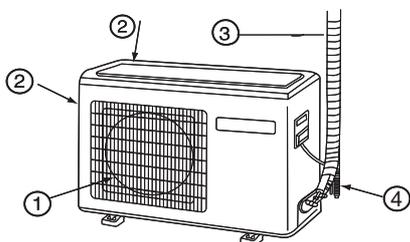
Indoor Unit



- 9 Power indicator (Lights up when unit starts.)
- 10 Timer mode indicator (Lights up when Timer operation is selected.)
- 11 Operation mode indicator (lights up when the compressor is on.)
- 12 Remote signal receiver (A beeping sound is generated when a signal from remote controller is received.)
- 13 Ambient temp display (When receiving the remote control signal, display the set temperature and in the rest time the room temperature is displayed and this room temperature is only for reference.)

Actual inlet grille may vary from the one shown in the manual according to the product purchased

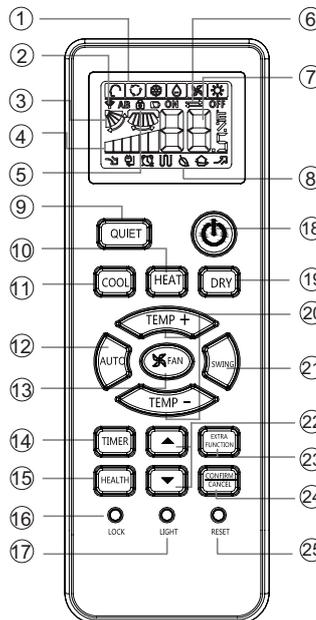
Outdoor Unit



- 1 OUTLET
- 2 INLET
- 3 CONNECTING PIPING AND ELECTRICAL WIRING
- 4 DRAIN HOSE

Please be subject to the actual produce purchased the above picture is just from your reference

Remote controller



1. Mode display

Operation mode	QUIET	SLEEP	Supplemented electrical heating	HEALTH	TURBO
Remote controller					

2. Signal sending display

3. SWING display

4. FAN SPEED display



5. LOCK display

6. TIMER OFF display

7. TIMER ON display

8. TEMP display

Healthy function is not available for some units.

8. Additional functions display

Operation mode	QUIET	SLEEP	Supplemented electrical heating	HEALTH	TURBO
Remote controller					

9. QUIET button

10. HEAT button

11. COOL button

12. AUTO button

13. FAN SPEED button

14. TIMER button

15. HEALTH button

16. LOCK button

Used to lock buttons and LCD display

17. LIGHT button

Control the lightening and extinguishing of the indoor LED display board.

18. POWER ON/OFF button

19. DRY button

20. TEMP button

21. SWING button

22. HOUR button

23. EXTRA FUNCTION button

Function: Sleeping---> Healthy airflow position 1---> Healthy airflow position 2 ---> Power ---> Air sending ---> A-B yard

Function: Setting and cancel to the timer and other additional functions.

Function: Setting and cancel to the timer and other additional functions.

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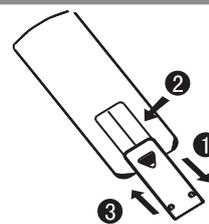
Function: Setting and cancel to the timer and other additional functions.

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Function: Setting and cancel to the timer and other additional functions.

Function: Setting and cancel to the timer and other additional functions.

Loading of the battery



Note:

- The distance between the signal transmission head and the receiver hole should be within 7m without any obstacle as well.
- When electronic-started type fluorescent lamp or change-over type fluorescent lamp or wireless telephone is installed in the room, the receiver is apt to be disturbed in receiving the signals, so the distance to the indoor unit should be shorter.
- Full display or unclear display during operation indicates the batteries have been used up. Please change batteries.
- If the remote controller can't run normally during operation, please remove the batteries and reload several minutes later.

Hint:

Remove the batteries in case won't be in use for a long period. If there is any display after taking-out, just press reset key.

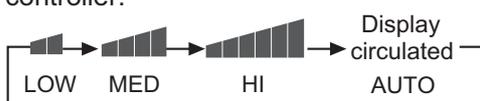
Operation

Base Operation

Remote controller



- 1. Unit start**
Press ON/OFF on the remote controller, unit starts.
- 2. Select operation mode**
COOL button: Cooling mode
HEAT button: Heating mode
DRY button: Dehumidify mode
- 3. Select temp. setting**
Press TEMP+ / TEMP- button
TEMP+ Every time the button is pressed, temp. setting increase 1°C, if kept depressed, it will increase rapidly
TEMP- Every time the button is pressed, temp. setting decrease 1°C, if kept depressed, it will decrease rapidly
Select a desired temperature.
- 4. Fan speed selection**
Press FAN button. For each press, fan speed changes as follows:
Remote controller:



Air conditioner is running under displayed fan speed. When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.

Operation Mode	Remote Controller	Note
AUTO		Under the mode of auto operation, air conditioner will automatically select Cool or Heat operation according to room temperature. When FAN is set to AUTO the air conditioner automatically adjusts the fan speed according to room temperature.
COOL		
DRY		In DRY mode, when room temperature becomes lower than temp. setting + 2°C, unit will run intermittently at LOW speed regardless of FAN setting.
HEAT		In HEAT mode, warm air will blow out after a short period of the time due to cold-draft prevention function. When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.
FAN		In FAN operation mode, the unit will not operate in COOL or HEAT mode but only in FAN mode, AUTO is not available in FAN mode. And temp. setting is disabled. In FAN mode, sleep operation is not available.

Emergency operation and test operation

Emergency Operation:

- Use this operation only when the remote controller is defective or lost, and with function of emergency running, air conditioner can run automatically for a while.
- When the emergency operation switch is pressed, the "Pi" sound is heard once, which means the start of this operation.
- When power switch is turning on for the first time and emergency operation starts, the unit will run automatically in the following modes:

Room temperature	Designated temperature	Timer mode	Fan speed	Operation mode
Above 23°C	26°C	No	AUTO	COOL
Below 23°C	23°C	No	AUTO	HEAT

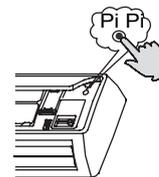


- It is impossible to change the settings of temp. and fan speed, it is also not possible to operate in timer or dry mode.

Test operation:

Test operation switch is the same as emergency switch.

- Use this switch in the test operation when the room temperature is below 16°C, do not use it in the normal operation.
- Continue to press the test operation switch for more than 5 seconds. After you hear the "Pi Pi" sound twice, release your finger from the switch: the cooling operation starts with the air flow speed "HI".
- Under this operation mode, the fan motor of indoor unit will run in high speed.



Air Flow Direction Adjustment

1. Vertical flap

- Pos.1
- Pos.2
- Pos.3
- Pos.4 (Autoswing)
- Pos.5

Remote controller

COOL/DRY/AUTO (Initial state):

HEAT (Initial state):



(no)

- Press button. changes as follows: Pos.4
Press button again, vertical flap will stop over present position, the swing function will be cancelled.

- Press button to choose the Pos.2 and Pos.3.

4. Left and right air flow adjustment (manual)

Move the vertical blade by a knob on air conditioner to adjust left and right direction referring to Fig.

- When adjusting the flap by hand, turn off the unit.
- When humidity is high, condensate water might occur adjusted to left or at air outlet if all vertical louvers are right.
- It is advisable not to keep horizontal flap at downward position for a long time in COOL or DRY mode, otherwise, condensate water might occur.

Note:

When restart after remote turning off, the remote controller will automatically memorize the previous set swing position.

Operation

Sleep Operation

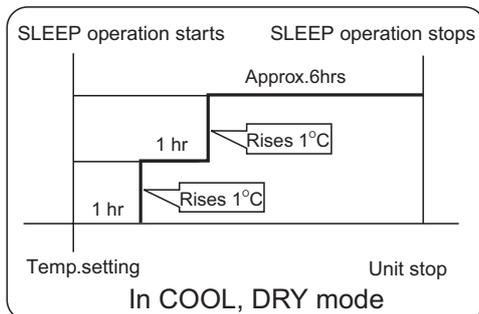
Press  button to enter additional options, when cycle display to ,  will flash. And then press  enter to sleep function.



Operation Mode

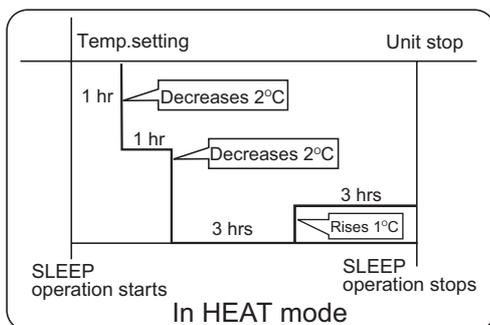
1. In COOL, DRY mode

1 hours after SLEEP mode starts, temp. will become 1°C higher than temp. setting. After another 1 hours, temp. rises by 1°C further. The unit will run for further 6 hours then stops. Temp. is higher than temp. setting so that room temperature won't be too low for your sleep.



2. In HEAT mode

1 hours after SLEEP mode starts, temp will become 2°C lower than temp. setting. After another 1 hours, temp decrease by 2°C further. After more another 3 hours, temp. rises by 1°C further. The unit will run for further 3 hours then stops. Temp. is lower than temp. setting so that room temperature won't be too high for your sleep.



3. In AUTO mode

The unit operates in corresponding sleep mode adapted to the automatically selected operation mode.

4. In FAN mode

It has no SLEEP function.

5. Set the wind speed change when sleeping

If the wind speed is high or middle before setting for the sleep, set for lowering the wind speed after sleeping. If it is low wind, no change.

Note

When TIMER function is set, the sleeping function can't be set up. After the sleeping function is set up, if user resets TIMER function, the sleeping function will be cancelled; the machine will be in the state of timing-on.

POWER/QUIET Operation

(1) POWER Operation

When you need rapid heating or cooling, you can use this function.

Press  button to enter additional options, when cycle display to ,  will flash, and then press , enter to power function. When cancel the function, please enter additional options again and to cancel power function.

(2) QUIET Operation

You can use this function when silence is needed for rest or reading.

Press QUIET button, the remote controller will show , and then achieve to the quiet function. Press again this QUIET button, the quiet function will be cancelled.

Note :

During POWER operation, in rapid HEAT or COOL mode, the room will show inhomogeneous temperature distribution. Long period QUIET operation will cause effect of not too cool or not too warm.

Operation

Timer On/Off On-Off Operation

1. After unit starts, select your desired operation mode.
2. Press TIMER button to change TIMER mode. Every time the button is pressed, display changes as follows:
Remote controller:



Then select your desired TIMER mode (TIMER ON or TIMER OFF or TIMER ON-OFF). " ON "or " OFF "will flash.

3. Press ▼ / ▲ button to set time.

- ▲ Press the button for each time, setting time in the first 12 hours increased by 0.5 hour every time, after 12 hours, increased by 1 hour every time.
- ▼ Press the button for each time, setting time in the first 12 hours decreased by 0.5 hour every time, after 12 hours, decreased by 1 hour every time. It can be adjusted within 24 hours.

4. Confirm timer setting

After adjust the time, press **CONFIRM/CANCEL** button and confirm the time ON or OFF button will not flash any more.

5. Cancel timer setting

Press the timer button by times until the time display eliminated.

Hints:

After replacing batteries or a power failure happens, time setting should be reset.

According to the Time setting sequence of TIMER ON or TIMER OFF, either Start-Stop or Stop-Start can be achieved.

Healthy airflow Operation

1. Press to starting

Setting the comfort work conditions.

2. The setting of healthy airflow function

Press **EXTRA FUNCTION** button to enter additional options, Press this button continuously, the louvers location will cycle between in the following three locations, to choose the swing location what you needed, and then press **CONFIRM/CANCEL** button to confirm.



3. The cancel of the healthy airflow function

Press **EXTRA FUNCTION** button to enter additional options, Press this button continuously, the louvers location will cycle between in the following three locations again, and then press **CONFIRM/CANCEL** button to cancel.

Notice: Do not direct the flap by hand. Otherwise, the grille will run incorrectly. If the grille is not run correctly, stop for a minute and then start, adjusting by remote controller.

Note:

1. After setting the healthy airflow function, the position grill is fixed.
2. In heating, it is better to select the mode.
3. In cooling, it is better to select the mode.
4. In cooling and dry, using the air conditioner for a long time under the high air humidity, condensate water may occur at the grille.

EUROPEAN REGULATIONS CONFORMITY FOR THE MODELS

CE

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

- Low Voltage Directive 2006/95/EC
- Electromagnetic Compatibility 2004/108/EC

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 human 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 national legislation.

IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

Contains fluorinated greenhouse gases covered by the Kyoto Protocol		A
R410A	1 = <input type="text"/> kg	B
	2 = <input type="text"/> kg	C
	1+2 = <input type="text"/> kg	D
	F	E

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

Refrigerant type: R410A

GWP* value: 1975

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 valve 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

Indoor Unit Installation

Necessary Tools for Installation

- Driver
- Nipper
- Hacksaw
- Hole core drill
- Spanner(17,19 and 26mm)
- Gas leakage detector or soap-and-water solution
- Torque wrench (17mm,22mm,26mm)
- Pipe cutter
- Flaring tool
- Knife
- Measuring tape
- Reamer

Selection of Installation Place

- Place, robust not causing vibration, where the body can be supported sufficiently.
- Place, not affected by heat or steam generated in the vicinity, where inlet and outlet of the unit are not disturbed.
- Place, possible to drain easily, where piping can be connected with the outdoor unit.
- Place, where cold air can be spread in a room entirely.
- Place, nearby a power receptacle, with enough space around.
- Place where the distance of more than 1m from televisions, radios, wireless apparatuses and fluorescent lamps can be left.
- In the case of fixing the remote controller on a wall, place where the indoor unit can receive signals when the fluorescent lamps in the room are lightened.

Power Source

- Before inserting power into receptacle, check the voltage without fail.
- The power supply is the same as the corresponding nameplate.
- Install an exclusive branch circuit of the power.
- A receptacle shall be set up in a distance where the power cable can be reached. Do not extend the cable by cutting it.

Accessory Parts

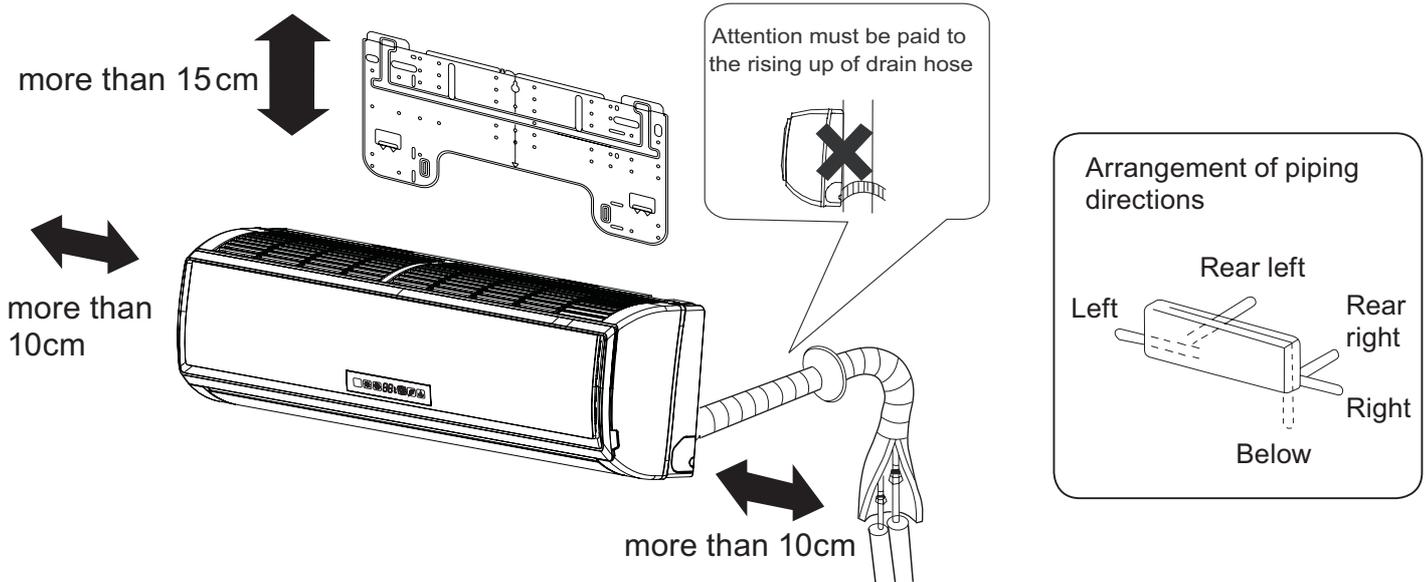
Remote controller (1)	Drain hose (1) 
R-03 dry battery (2) 	Plastic cap (4)  Ø4X25 Screw (4) 
Mounting plate (1)	Air purifying filter(Optional) (1)

Selection of Pipe

FOR 07K 09K 12K	Liquid pipe	φ 6.35x0.8mm
	Gas pipe	φ 9.52x0.8mm
FOR 18K	Liquid pipe	φ 6.35x0.8mm
	Gas pipe	φ 12.7x0.8mm
FOR 24K	Liquid pipe	φ 9.52x0.8mm
	Gas pipe	φ 15.88x1.0mm

Drawing for the installation of indoor units

The models adopt HFC free refrigerant R410A



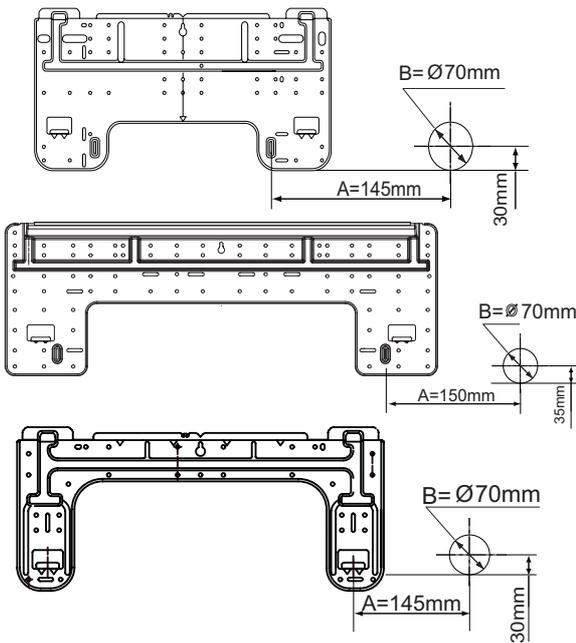
The distance between the indoor unit and the floor should be more than 2m.
Please be subject to the actual product purchased, the above picture is just for your reference.

Indoor Unit Installation

1 Fitting of the Mounting Plate and Positioning of the wall Hole

When the mounting plate is first fixed

1. Carry out, based on the neighboring pillars or lintels, a proper leveling for the plate to be fixed against the wall, then temporarily fasten the plate with one steel nail.
2. Make sure once more the proper level of the plate, by hanging a thread with a weight from the central top of the plate, then fasten securely the plate with the attachment steel nail.
3. Find the wall hole location A using a measuring tape

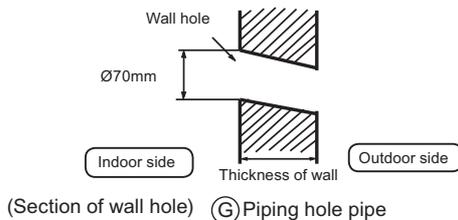


When the mounting plate is fixed side bar and lintel

- Fix to side bar and lintel a mounting bar, Which is separately sold, and then fasten the plate to the fixed mounting bar.
- Refer to the previous article, "When the mounting plate is first fixed", for the position of wall hole.

2 Making a Hole on the Wall and Fitting the Piping Hole Cover

- Make a hole of 70 mm in diameter, slightly descending to outside the wall
- Install piping hole cover and seal it off with putty after installation



3 Installation of the Indoor Unit

Drawing of pipe

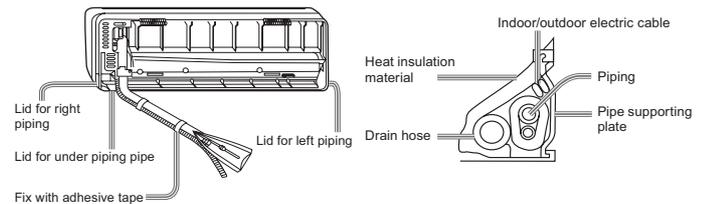
[Rear piping]

- Draw pipes and the drain hose, then fasten them with the adhesive tape

[Left · Left-rear piping]

- In case of left side piping, cut away, with a nipper, the lid for left piping.
- In case of left-rear piping, bend the pipes according to the piping direction to the mark of hole for left-rear piping which is marked on heat insulation materials.

1. Insert the drain hose into the dent of heat insulation materials of indoor unit.
2. Insert the indoor/outdoor electric cable from backside of indoor unit, and pull it out on the front side, then connect them.
3. Coat the flaring seal face with refrigerant oil and connect pipes. Cover the connection part with heat insulation materials closely, and make sure fixing with adhesive tape



- Indoor/outdoor electric cable and drain hose must be bound with refrigerant piping by protecting tape.

[Other direction piping]

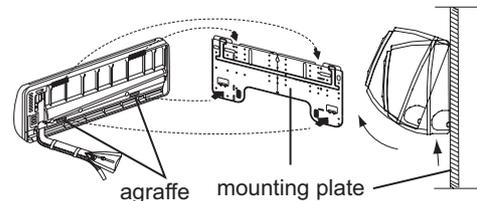
- Cut away, with a nipper, the lid for piping according to the piping direction and then bend the pipe according to the position of wall hole. When bending, be careful not to crash pipes.
- Connect beforehand the indoor/outdoor electric cable, and then pull out the connected to the heat insulation of connecting part specially.

Fixing the indoor unit body

- Hang surely the unit body onto the upper notches of the mounting plate. Move the body from side to side to verify its secure fixing.
- In order to fix the body onto the mounting plate, hold up the body aslant from the underside and then put it down perpendicularly. mounting plate

Unloading of indoor unit body

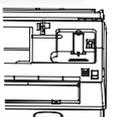
- When you unload the indoor unit, please use your hand to arise the body to leave a agraffe, then lift the bottom of the body outward slightly and lift the unit aslant until it leaves the mounting plate.



4 Connecting the indoor/outdoor Electric Cable

Removing the wiring cover

- Remove terminal cover at right bottom corner of indoor unit, then take off wiring cover by removing its screws.

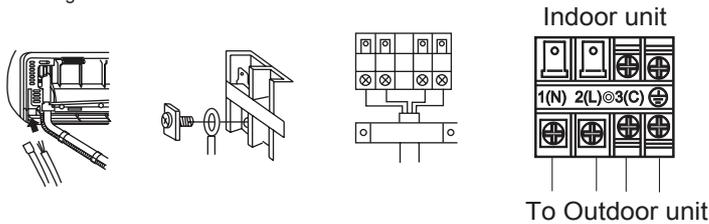


When connecting the cable after installing the indoor unit

1. Insert from outside the room cable into left side of the wall hole, in which the pipe has already existed.
2. Pull out the cable on the front side, and connect the cable making a loop.

When connecting the cable before installing the indoor unit

- Insert the cable from the back side of the unit, then pull it out on the front side.
- Loosen the screws and insert the cable ends fully into terminal block, then tighten the screws.
- Pull the cable slightly to make sure the cables have been properly inserted and tightened.
- After the cable connection, never fail to fasten the connected cable with the wiring cover.



Note:

When connecting the cable, confirm the terminal number of indoor and outdoor units carefully. If wiring is not correct, proper operation can not be carried out and will cause defect.

Connecting wiring	$\geq 4G0.75mm^2$
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1. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person. The type of connecting wire is H05RN-F or H07RN-F.
2. If the fuse on PC board is broken please change it with the type of T.3.15A/250VAC (Indoor).
3. The wiring method should be in line with the local wiring standard.
4. After installation, the power plug should be easily reached.
5. A breaker should be incorporated into fixed wiring. The breaker should be all-pole switch and the distance between its two contacts should be not less than 3mm.

5 Power Source Installation

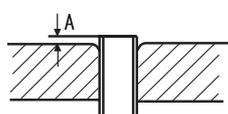
- The power source must be exclusively used for air conditioner.
- In the case of installing an air conditioner in a moist place, please install an earth leakage breaker.
- For installation in other places, use a circuit breaker as far as possible.

6 Cutting and Flaring Work of Piping

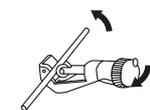
- Pipe cutting is carried out with a pipe cutter and burs must be removed.
- After inserting the flare nut, flaring work is carried out.

	Flare tool for R410A	Conventional flare tool	
	Clutch-type	clutch-type(Rigid-type)	Wing-nut type (Imperial-type)
A	0~0.5mm	1.0~1.5mm	1.5~2.0mm

Flare tooling die



1. Cut pipe



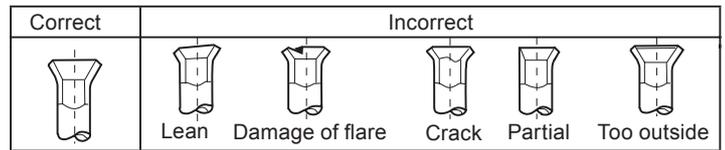
2. Remove burs



3. Insert the flare nut

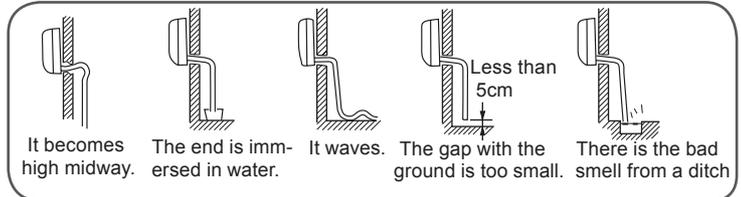


4. Flare pipe



7 On Drainage

- Please install the drain hose so as to be downward slope without fail.
- Please don't do the drainage as shown below.



- Please pour water in the drain pan of the indoor unit, and confirm that drainage is carried out surely to outdoor.
- In case that the attached drain hose is in a room, please apply heat insulation to it without fail.

8 On Drainage

Code indication	Trouble description	Analyze and diagnose
E1	Room temperature sensor failure	Faulty connector connection; Faulty thermistor; Faulty PCB;
E2	Heat-exchange sensor failure	
E4	Indoor EEPROM error	Faulty EEPROM data; Faulty EEPROM; Faulty PCB;
E7	Communication fault between indoor and outdoor units	Indoor unit- outdoor unit signal transmission error due to wiring error; Faulty PCB;
E14	Indoor fan motor malfunction	Operation halt due to breaking of wire inside the fan motor; Operation halt due to breaking of the fan motor lead wires; Detection error due to faulty indoor unit PCB;

9 Check for Installation and Test Run

- Please kindly explain to our customers how to operate through the instruction manual.

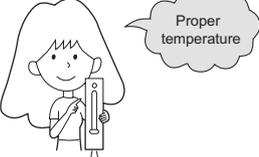
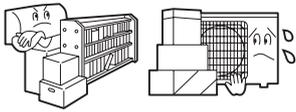
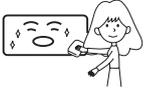
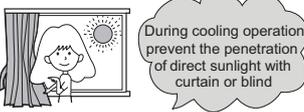
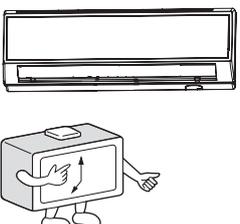
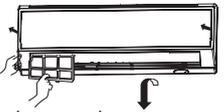
Check Items for Test Run

Put check mark ✓ in boxes

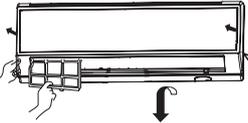
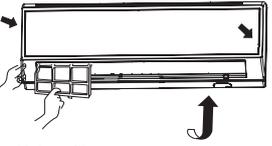
- Gas leak from pipe connecting?
- Heat insulation of pipe connecting?
- Are the connecting wirings of indoor and outdoor firmly inserted to the terminal block?
- Is the connecting wiring of indoor and outdoor firmly fixed?
- Is drainage securely carried out?
- Is the earth line securely connected?
- Is the indoor unit securely fixed?
- Is power source voltage abided by the code?
- Is there any noise?
- Is the lamp normally lighting?
- Are cooling and heating (when in heat pump) performed normally?
- Is the operation of room temperature regulator normal?

Maintenance

For Smart Use of The Air Conditioner

<p>Setting of proper room temperature</p> 	<p>Do not block the air inlet or outlet</p> 	<p>Remote Controller</p>  <p>Do not use water, wipe the controller with a dry cloth. Do not use glass cleaner or chemical cloth.</p>	<p>Indoor Body</p>  <p>wipe the air conditioner by using a soft and dry cloth. For serious stains, use a neutral detergent diluted with water. Wring the water out of the cloth before wiping, then wipe off the detergent completely.</p>
<p>Close doors and windows during operation</p> 	<p>Use the timer effectively</p> 	<p>Do not use the following for cleaning</p>  <p>Gasoline, benzene, thinner or cleanser may damage the coating of the unit. Hot water over 40°C (104°F) may cause discoloring or deformation.</p>	
<p>If the unit is not to be used for a long time, turn off the power supply main switch.</p> 	<p>Use the louvers effectively</p> 	<p>Air Filter cleaning</p>  <ol style="list-style-type: none"> Open the inlet grille by pulling it upward. Remove the filter. Push up the filter's center tab slightly until it is released from the stopper, and remove the filter downward. Clean the filter. Use a vacuum cleaner to remove dust, or wash the filter with water. After washing, dry the filter completely in the shade. Attach the filter. Attach the filter correctly so that the "FRONT" indication is facing to the front. Make sure that the filter is completely fixed behind the stopper. If the right and left filters are not attached correctly, that may cause defects. Close the inlet grille. 	

Replacement of Air Purifying Filter

<p>1. Open the Inlet Grille</p> <p>Prop up the inlet grille by using a small device named grille-support which located in the right side of the indoor unit.</p>  <p>2. Detach the standard air filter</p> <p>Slide the knob slightly upward to release the filter, then withdraw it.</p>  <p>Detach old Air Purifying Filter</p>  <p>3. Attach Air Purifying Filter</p> <p>Put air purifying filter appliances into the right and left filter frames.</p> 	<p>4. Attach the standard air filter</p> <p>(Necessary installation)</p> <p>ATTENTION:</p> <p>The white side of the photocatalyst air purifying filter face outside, and the black side face the unit. The green side of the bacteria-killing medium air purifying filter face outside, and the white side face the unit.</p>  <p>5. Close the Inlet Grille</p> <p>Close the Grille surely</p> <p>NOTE:</p> <ul style="list-style-type: none"> The photocatalyst air purifying filter will be solarized in fixed time. In normal family, it will be solarized every 6 months. The bacteria-killing medium air purifying filter will be used for a long time, no need for replacement. But in the period of using them, you should remove the dust frequently by using vacuum cleaner or flapping them lightly, otherwise, its performance will be affected. Please keep the bacteria-killing medium air purifying filter in the cool and dry conditions avoid long time directly sunshine when you stop using it, or its ability of sterilization will be reduced.
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