USER'S MANUAL

MULTI ZOOM SERIES indoor

MS-H07AIZ, MS-H09AIZ, MS-H12AIZ, MS-H18AIZ, MS-H24AIZ



"Original instructions"

Content

Operation Notices	
Precautions	1
Parts Name	6
ScreenOperation Guide	
Buttons on remote controller	8
Introduction for icons on display screen	
Introduction for buttons on remote controller	
Function introduction for combination buttons	
Operation guide	
Replacement of batteries in remote controller	
Emergency operation	
Maintenance	
Clean and Maintenance	14
Malfunction	
Malfunction analysis	17
Installation Notice	
Installation dimension diagram	21
Tools for installation	22
Selection of installation location	22
Requirements for electric connection	23
Installation	
Installation of indoor unit	
Check after installation	29
Test and operation	
Test operation	29
Attachment	
Pipe expanding method	31

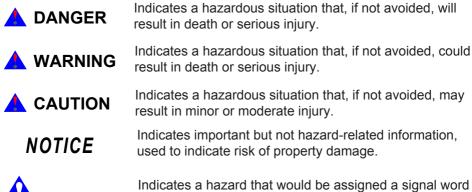
This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should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



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

R410A(R32/125: 50/50): 2087.5

Explanation of Symbols



WARNING or CAUTION.





Operation and Maintenance

- •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.
- •Do not connect air conditioner to multi-purpose socket. Otherwise, it may cause fire hazard.
- •Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- •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.
- •Do not wash the air conditioner with water to avoid electric shock.
- •Do not spray water on indoor unit. It may cause electric shock or malfunction.
- •After removing the filter, do not touch fins to avoid injury.
- •Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.



- Maintenance must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do not spill water on the remote controller, otherwise the remote controller may be broken.
- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
 - Power cord is overheating or damaged.
 - There's abnormal sound during operation.
 - Circuit break trips off frequently.
 - Air conditioner gives off burning smell.
 - Indoor unit is leaking.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.
- When turning on or turning off the unit by emergency operation switch, please press this switch with an insulating object other than metal.
- Do not step on top panel of outdoor unit, or put heavy objects. It may cause damage or personal injury.



Attachment

- •Installation must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- Must follow the electric safety regulations when installing the unit.
- According to the local safety regulations, use qualified power supply circuit and circuit break.
- Do install the circuit break. If not, it may cause malfunction.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Including an circuit break with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload.
- Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.
- Don't use unqualified power cord.
- Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
- Properly connect the live wire, neutral wire and grounding wire of power socket.
- Be sure to cut off the power supply before proceeding any work related to electricity and safety.



- Do not put through the power before finishing installation.
- 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.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- The appliance shall be installed in accordance with national wiring regulations.
- Installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.
- The air conditioner is the first class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- The grounding resistance should comply with national electric safety regulations.
- The appliance must be positioned so that the plug is accessible.
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.



- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an circuit break must be installed in the line.
- If you need to relocate the air conditioner to another place, only the qualified person can perform the work. Otherwise, it may cause personal injury or damage.
- Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add the fence for safety purpose.
- The indoor unit should be installed close to the wall.

Working temperature range

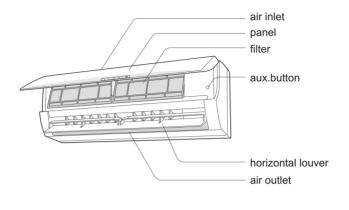
	Indoor side DB/WB(°C)	Outdoor side DB/WB(°C)
Maximum cooling	32/23	43/26
Maximum heating	27/-	24/18

NOTICE:

• The operating temperature range (outdoor temperature) for cooling is -15°C ~43°C; Heating temperature range for the model without electric heating belt for chassis is -15°C ~24°C; Heating temperature range for the model with electric heating belt for chassis is -20°C ~24°C.

Parts Name

Indoor Unit





(Display content or position may be different from above graphics, please refer to actual products)

remote control

NOTICE:

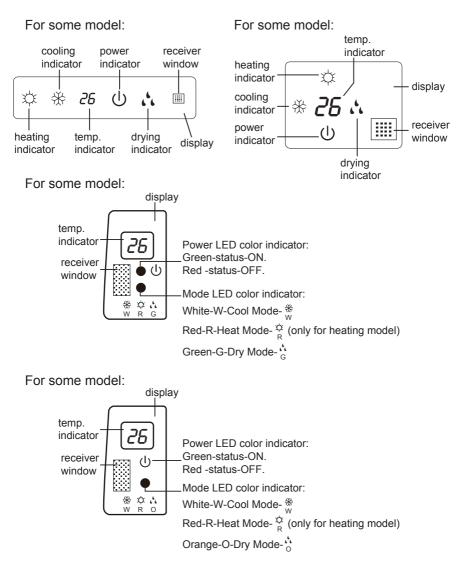
Actual product may be different from above graphics, please refer to actual products.

NOTICE:

This remote controller is universal and can be used for multi-functional air conditioning. Some models do not support a selected function. For more information, contact your dealer. If the button on the remote controller with the function which the air conditioner doesn't have is pressed, the unit remains in its original operating mode.

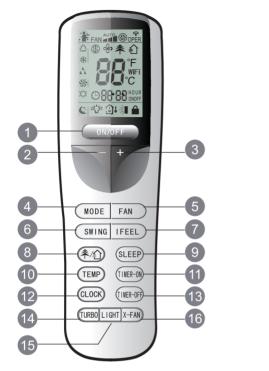
Parts Name

Display



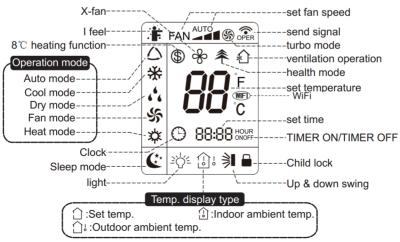
Display content or position may be different from above graphics, please refer to actual products.

Buttons on remote controller



- ON/OFF button
 button
 + button
 MODE button
 FAN button
 SWING button
- 7 I FEEL button
- 8 辛/纪 button
- 9 SLEEP button
- 10 TEMP button
- 11 TIMER-ON button
- 12 CLOCK button
- 13 TIMER-OFF button
- 14 TURBO button
- 15 LIGHT button
- 16 X-FAN button

Introduction for icons on display screen



Note:

- This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.
- After putting through power, air conditioner will give out a sound and operation indicator "()" is ON (red indicator). You can operate the air conditioner through the remote controller.

1 ON/OFF button

Press this button to turn on the unit. Press this button again to turn off the unit.

2

- button

Press this button to decrease set temperature. Holding it down above 2 seconds rapidly decreases set temperature. In AUTO mode, set temperature is not adjustable.



+ button

Press this button to increase set temperature. Holding it down above 2 seconds rapidly increases set temperature. In AUTO mode, set temperature is not adjustable.



MODE button

Each time you press this button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, FAN, and HEAT*, as the following:



*Note: Only for models with heating function.

After energization, AUTO mode is defaulted. In AUTO mode, the set temperature will not be displayed on the LCD, and the unit will automatically select the suitable operation mode in accordance with the room temperature to make indoor room comfortable. (As for cooling only unit, it won't have any action when it receives the signal of heating operation.)

5 FAN button

This button is used for setting Fan Speed in the sequence that goes from AUTO, , , to , then back to Auto.





6 SWING button

Press this button to set up &down swing angle, which circularly changes as below:

This remote controller is universal. If any command \ge , \ge or = is sent out, the unit will carry out the command as 3

indicates the guide louver swings as: ` ↓ ↓ ↓ ↓ ↓



I FEEL button

Press this button to turn on I FEEL function. The unit automatically adjust temperature according to the sensed temperature. Press this button again to cancel I FEEL function.

8

▲/創 button

Press this button to achieve the on and off of healthy and scavenging functions in operation status. Press this button for the first time to start scavenging function; LCD displays " Ω ". Press the button for the second time to start healthy and scavenging functions simultaneously; LCD displays " ♠ " and " ♣ ". Press this button for the third time to quit healthy and scavenging functions simultaneously. Press this button again to repeat the operation above. (This function is applicable to partial of models)

SLEEP button

Press this button to go into the SLEEP operation mode. Press it again to cancel this function. This function is available in COOL, HEAT (Only for models with heating function) mode to maintain the most comfortable temperature for you.



10 TEMP button

Press this button can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. Temperature is set circularly by remote controller as below:



- When selecting ")" by remote controller or no display, temperature indicator on indoor unit displays set temperature.
- When selecting "()" by remote controller, temperature indicator on indoor unit displays indoor ambient temperature.
- When selecting " 1: " by remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

Note:

- Outdoor ambient temperature display may can't be selected for some models. When indoor unit receives " \bigcap_{i} " signal, it displays indoor set temperature.
- Only for the model whose indoor unit has dual-8 display.

11 TIMER-ON button

Press this button to initiate the auto-ON timer. To cancel the auto-timer program, simply press this button again.

After press of this button, () disappears and "ON" blinks. 00:00 is displayed for ON time setting. Within 5 seconds, press + or - button to adjust the time value. Every press of either button changes the time setting by 1 minute. Holding down either button rapidly changes the time setting by 1 minute and then 10 minutes. Within 5 Seconds after setting, press TIMER ON button to confirm.

12 CLOCK button

Press CLOCK button, () blinking. Within 5 seconds, pressing + or - button adjusts the present time. Holding down either button above 2 seconds increases or decreases the time by 1 minute every 0.5 second and then by 10 minutes every 0.5 second. During blinking after setting, press CLOCK button again to confirm the setting, and then \bigcirc will be constantly displayed.

13 TIMER-OFF button

Press this button to initiate the auto-off timer. To cancel the auto-timer program, simply press the button again. TIMER OFF setting is the same as TIMER ON.



14 TURBO button

Press this button to activate / deactivate the Turbo function which enables the unitto reach the preset temperature in the shortest time. In COOL mode, the unit will blow strong cooling air at super high fan speed. In HEAT mode, the unit will blow strong heating air at super high fan speed.

15 LIGHT button

Press LIGHT button to turn on the display's light and press this button again to turn off the display's light. If the light is turned on, 26 is displayed. If the light is turned off, ≧ở≦ disappears.



16 X-FAN button

Pressing X-FAN button in COOL or DRY mode, ∞ the icon is displayed and the indoor fan will continue operation for 2 minutes in order to dry the indoor unit even though you have turned off the unit.

After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN or HEAT mode

Function introduction for combination buttons

Combination of "+" and "-" buttons: About lock

Press "+" and "-" buttons simultaneously to lock or unlock the keypad. If the remote controller is locked, $\widehat{\Box}$ is displayed. In this case, pressing any button, $\widehat{\Box}$ blinks three times.

Combination of "MODE" and "-" buttons: About switch between Fahrenheit and centigrade

At unit OFF, press "MODE" and "-" buttons simultaneously to switch between °C and °F.

Function introduction for combination buttons

Combination of "TEMP" and "CLOCK" buttons: About Energy-saving Function

Press "TEMP" and "CLOCK" simultaneously in COOL mode to start energy-saving function. Nixie tube on the remote controller displays "SE". Repeat the operation to quit the function.

Combination of "TEMP" and "CLOCK" buttons: About 8°C Heating Function

Press "TEMP" and "CLOCK" simultaneously in HEAT mode to start 8°C Heating Function Nixie tube on the remote controller displays "()" and a selected temperature of "8°C" (46°F if Fahrenheit is adopted). Repeat the operation to quit the function.

About Back-lighting Function

The unit lights for 4s when energizing for the first time, and 3s for later press.

★ About HEALTH function (COLD PLASMA)

Turn on the unit, start up the fan (Breezing and X-FAN are excluded) and press HEATLTH button on remote controller to start health function (If there is not HEALTH button on remote controller, the unit defaults health function ON.)

WIFI Function

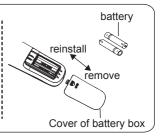
Press "MODE" and "TURBO" button simultaneously to turn on or turn off WIFI function. When WIFI function is turned on, the "**WiFi**" icon will be displayed on remote controller; Long press "MODE" and "TURBO" buttons simultaneously for 10s, remote controller will send WIFI reset code and then the WIFI function will be turned on. WIFI function is defaulted ON after energization of the remote controller.

Operation guide

- **1.** After putting through the power, press "ON/OFF" button on remote controller to turn on the air conditioner.
- **2.** Press "MODE" button to select your required mode: AUTO, COOL, DRY, FAN, HEAT.
- **3.** Press "+" or "-" button to set your required temperature. (Temperature can't be adjusted under auto mode).
- **4.** Press "FAN" button to set your required fan speed: auto, low, medium and high speed.
- 5. Press "SWING" button to select fan blowing angle.

Replacement of batteries in remote controller

- 1. Press the back side of remote controller marked with ". as shown in the fig, and then push out the cover of battery box along the arrow direction.
- Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar are correct.



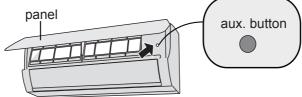
3. Reinstall the cover of battery box.

NOTICE

- During operation, point the remote control signal sender at the receiving window on indoor unit.
- The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
- Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.
- Replace new batteries of the same model when replacement is required.
- When you don't use remote controller for a long time, please take out the batteries.
- If the display on remote controller is fuzzy or there's no display, please replace batteries.

Emergency operation

If remote controller is lost or damaged, please use auxiliary button to turn on or turn off the air conditioner. The operation in details are as below: As shown in the fig. Open panel, press aux. button to turn on or turn off the air conditioner. When the air conditioner is turned on, it will operate under auto mode.



WARNING:

Use insulated object to press the auto button

Clean and maintenance

- Turn off the air conditioner and disconnect the power before cleaning the air conditioner to avoid electric shock.
- Do not wash the air conditioner with water to avoid electric shock.
- Do not use volatile liquid to clean the air conditioner.

Clean surface of indoor unit

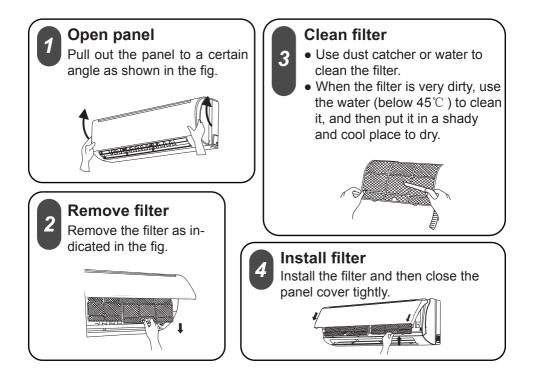
When the surface of indoor unit is dirty, it is recommended to use a soft dry cloth or wet cloth to wipe it.

NOTICE:

• Do not remove the panel when cleaning it.

Clean and Maintenance

Clean filter



- The filter should be cleaned every three months. If there is much dust in the operation environment, clean frequency can be increased.
- After removing the filter, do not touch fins to avoid injury.
- Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

Clean and Maintenance

NOTICE: Checking before use-season

- 1. Check whether air inlets are blocked.
- 2. Check whether air switch, plug and socket are in good condition.
- 3. Check whether filter is clean.
- 4. Check whether drainage pipe is damaged.

NOTICE: Checking after use-season

- 1. Disconnect power supply.
- 2. Clean filter and indoor unit's panel.

Notice for recovery

- 1. Many packing materials are recyclable materials. Please dispose them in appropriate recycling unit.
- 2. If you want to dispose the air conditioner, please contact local dealer or consultant service center for the correct disposal method.

General phenomenon analysis

Please check below items before asking for maintenance. If the malfunction still can't be eliminated, please contact local dealer or qualified professionals.

Phenomenon	Check items	Solution
	 Whether it's interfered severely (such as static electricity, stable voltage)? 	 Pull out the plug. Reinsert the plug after about 3min, and then turn on the unit again.
	 Whether remote controller is within the signal receiving range? 	 Signal receiving range is 8m.
Indoor unit	 Whether there are obstacles? 	 Remove obstacles.
can't receive remote controller's	 Whether remote controller is pointing at the receiving window? 	 Select proper angle and point the remote controller at the re- ceiving window on indoor unit.
signal or remote controller has no	 Is sensitivity of remote contro- ller low; fuzzy display and no display? 	 Check the batteries. If the power of batteries is too low, please replace them.
	 No display when operating remote controller? 	 Check whether remote cont- roller appears to be damaged. If yes, replace it.
	 Fluorescent lamp in room? 	 Take the remote controller close to indoor unit.
		 Turn off the fluoresent lamp and then try it again.
	 Air inlet or air outlet of indoor unit is blocked? 	Eliminate obstacles.
No air emitted from indoor unit	 Under heating mode, indoor temperature is reached to set temperature? 	 After reaching to set temper- ature, indoor unit will stop bl- owing out air.
	 Heating mode is turned on just now? 	 In order to prevent blowing out cold air, indoor unit will be started after delaying for sev- eral minutes, which is a nor- mal phenomenon.

Phenomenon	Check items	Solution	
	Power failure?	Wait until power recovery.	
	 Is plug loose? 	 Reinsert the plug. 	
	• Air switch trips off or fuse is burnt out?	 Ask professional to replace air switch or fuse. 	
Air condit- ioner can't	 Wiring has malfunction? 	 Ask professional to replace it. 	
operate	• Unit has restarted immediately after stopping operation?	 Wait for 3min, and then turn on the unit again. 	
	 Whether the function setting for remote controller is correct? 	Reset the function.	
Mist is em- itted from indoor unit's air outlet	 Indoor temperature and hum- idity is high? 	Because indoor air is cooled rapidly. After a while, indoor temperature and humidity will be decrease and mist will disappear.	
Set temper- ature can't	 Unit is operating under auto mode? 	• Temperature can't be adju- sted under auto mode. Please switch the operation mode if you need to adjust temperature.	
be adjusted	• Your required temperature exceeds the set temperature range?	● Set temperature range: 16℃ ~30℃ .	
	Voltage is too low?	Wait until the voltage resumes normal.	
Cooling (heating) effect is not good.	• Filter is dirty?	Clean the filter.	
	• Set temperature is in proper range?	 Adjust temperature to proper range. 	
	• Door and window are open?	Close door and window.	

Phenomenon	Check items	Solution
Odours are emitted	• Whether there's odour source, such as furniture and cigarette, etc.	Eliminate the odour source.Clean the filter.
Air conditio- ner operates abnormally suddenly	• Whether there's interference, such as thunder, wireless devices, etc.	• Disconnect power, put back power, and then turn on the unit again.
"Water flowing" noise	• Air conditioner is turned on or turned off just now?	• The noise is the sound of refrigerant flowing inside the unit, which is a normal phenomenon.
Cracking noise	 Air conditioner is turned on or turned off just now? 	• This is the sound of friction caused by expansion and/or contraction of panel or other parts due to the change of temperature.

Error Code

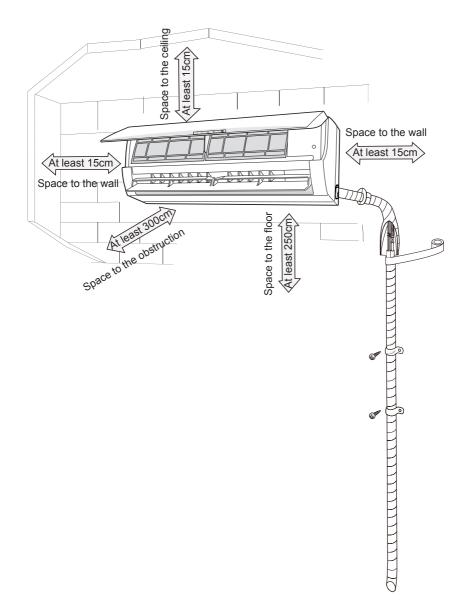
• When air conditioner status is abnormal, temperature indicator on indoor unit will blink to display corresponding error code. Please refer to below list for identification of error code.

Error code	Troubleshooting
E5	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
E8	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
U8	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
H6	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
E6	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
C5	Please contact qualified professionals for service.
F1	Please contact qualified professionals for service.
F2	Please contact qualified professionals for service.

Note: If there're other error codes, please contact qualified professionals for service.

- When below phenomenon occurs, please turn off air conditioner and disconnect power immediately, and then contact the dealer or qualified professionals for service.
 - Power cord is overheating or damaged.
 - There's abnormal sound during operation.
 - Air switch trips off frequently.
 - Air conditioner gives off burning smell.
 - Indoor unit is leaking.
- Do not repair or refit the air conditioner by yourself.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock or fire hazard.

Installation dimension diagram



Tools for installation

1 Level meter	2 Screw driver		3 Impact drill		
4 Drill head	5 Pipe expander		ill head 5 Pipe expander		6 Torque wrench
7 Open-end wrench	8 Pipe cutter		Open-end wrench 8 Pipe cutter 9 Leakage detector		9 Leakage detector
10 Vacuum pump	11 Pressure meter		sure meter 12 Universal meter		
13 Inner hexagon spa	banner 14 Measuring tape		anner 14		Measuring tape

Note:

- Please contact the local agent for installation.
- Don't use unqualified power cord.

Selection of installation location

Basic requirement

Installing the unit in the following places maycause malfunction. If it is unavoidable, please consult the local dealer:

- 1. The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- 2. The place with high-frequency devices (such as welding machine, medical equipment).
- 3. The place near coast area.
- 4. The place with oil or fumes in the air.
- 5. The place with sulfureted gas.
- 6. Other places with special circumstances.
- 7. Do not use the unit in the immediate surroundings of a laundry a bath a shower or a swimming pool.

Indoor unit

- 1. There should be no obstruction near air inlet .
- 2. Select a location where the condensation water can be dispersed easily and won't affect other people.
- 3. Select a location which is convenient to connect the outdoor unit and near the power socket.
- 4. Select a location which is out of reach for children.
- 5. The location should be able to withstand the weight of indoor unit and won't increase noise and vibration.
- 6. The appliance must be installed 2.5m above floor.
- 7. Don't install the indoor unit right above the electric appliance.
- 8. Please try your best to keep way from fluorescent lamp.

Requirements for electric connection

Safety precaution

- 1. Must follow the electric safety regulations when installing the unit.
- 2. According to the local safety regulations, use qualified power supply circuit and air switch.
- 3. Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring or malfunction. Please install proper power supply cables before using the air conditioner.
- 4. Properly connect the live wire, neutral wire and grounding wire of power socket.
- 5. Be sure to cut off the power supply before proceeding any work related to electricity and safety.
- 6. Do not put through the power before finishing installation.
- 7. 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.
- 8. The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- 9. The appliance shall be installed in accordance with national wiring regulations.

Grounding requirement

- 1. The air conditioner is the first class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- 2. The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- 3. The grounding resistance should comply with national electric safety regulations.
- 4. The appliance must be positioned so that the plug is accessible.
- 5. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

Step one: choosing installation location

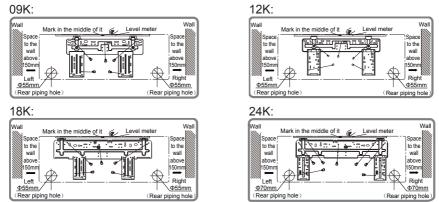
Recommend the installation location to the client and then confirm it with the client.

Step two: install wall-mounting frame

- 1. Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.
- 2. Drill the screw fixing holes on the wall with impact drill (the specification of drill head should be the same as the plastic expansion particle) and then fill the plastic expansion particles in the holes.
- 3. Fix the wall-mounting frame on the wall with tapping screws (ST4.2X25TA) and then check if the frame is firmly installed by pulling the frame. If the plastic expansion particle is loose, please drill another fixing hole nearby.

Step three: open piping hole

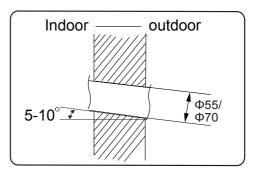
1. Choose the position of piping hole according to the direction of outlet pipe. The position of piping hole should be a little lower than the wall-mounted frame, shown as below.



2. Open a piping hole with the diameter of Φ 55 or Φ 70 on the selected outlet pipe position.In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of 5-10°.

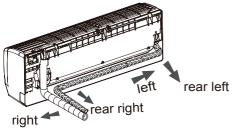
Note:

- Pay attention to dust prevention and take relevant safety measures when opening the hole.
- The plastic expansion particles are not provided and should be bought locally.

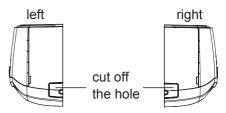


Step four: outlet pipe

1. The pipe can be led out in the direction of right, rear right, left or rear left.

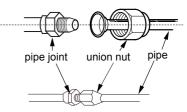


2. When select leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.

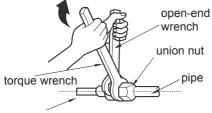


Step five: connect the pipe of indoor unit

- 1. Aim the pipe joint at the corresponding bellmouth.
- 2. Pretightening the union nut with hand.



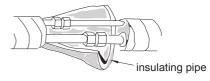
3. Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.



Hex nut diameter	Tightening torque (N·m)
Φ6	15~20
Φ 9.52	30~40
Φ 12	45~55
Φ 16	60~65
Φ 19	70~75

indoor pipe

4. Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape.



Step six: install drain hose

1. Connect the drain hose to the outlet pipe of indoor unit.

outlet pipe

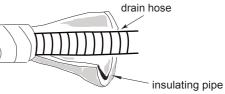
tape

2. Bind the joint with tape.

Note:

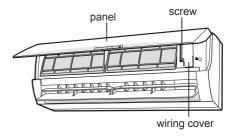
- Add insulating pipe in the indoor drain hose in order to prevent condensation.
- The plastic expansion particles are not provided.

outlet pipe



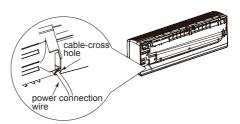
Step seven: connect wire of indoor unit

1. Open the panel, remove the screw on the wiring cover and then take down the cover.

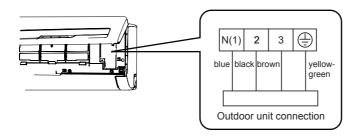


drain hose

2. Make the power connection wire go through the cable-cross hole at the back of indoor unit and then pull it out from the front side.



3. Remove the wire clip; connect the power connection wire to the wiring terminal according to the color; tighten the screw and then fix the power connection wire with wire clip.



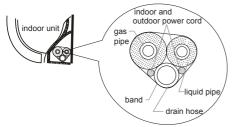
- 4. Put wiring cover back and then tighten the screw.
- 5. Close the panel.

Note:

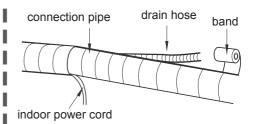
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.

Step eight: bind up pipe

1. Bind up the connection pipe, power cord and drain hose with the band.



2. Reserve a certain length of drain hose and power cord for installation when binding them. When binding to a certain degree, separate the indoor power and then separate the drain hose.



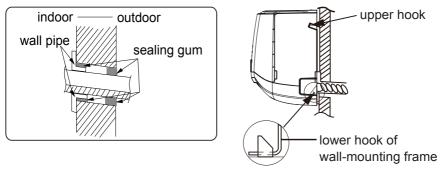
- 3. Bind them evenly.
- 4. The liquid pipe and gas pipe should be bound separately at the end.

Note:

- The power cord and control wire can't be crossed or winding.
- The drain hose should be bound at the bottom.

Step nine: hang the indoor unit

- 1. Put the bound pipes in the wall pipe and then make them pass through the wall hole.
- 2. Hang the indoor unit on the wall-mounting frame.
- 3. Stuff the gap between pipes and wall hole with sealing gum.
- 4. Fix the wall pipe.
- 5. Check if the indoor unit is installed firmly and closed to the wall.



Note:

• Do not bend the drain hose too excessively in order to prevent blocking.

Check after installation

• Check according to the following requirement after finishing installation.

Items to be checked	Possible malfunction
Has the unit been installed firmly?	The unit may drop, shake or emit noise
Have you done the refrigerant leakage test?	It may cause insufficient cooling (heating) capacity.
Is heat insulation of pipeline sufficient?	It may cause condensation and water dripping.
Is water drained well?	It may cause condensation and water dripping.
Is the voltage of power supply accord- ing to the voltage marked on the nameplate?	It may cause malfunction or damaging the parts.
Is electric wiring and pipeline installed correctly?	It may cause malfunction or damaging the parts.
Is the unit grounded securely?	It may cause electric leakage.
Does the power cord follow the speci- fication?	It may cause malfunction or damaging the parts.
Is there any obstruction in the air inlet and outlet?	It may cause insufficient cooling (heating) capacity.
The dust and sundries caused during installation are removed?	It may cause malfunction or damaging the parts.
The gas valve and liquid valve of connection pipe are open completely?	It may cause insufficient cooling (heating) capacity.
Is the inlet and outlet of piping hole been covered?	It may cause insufficient cooling (heating) capacity or waster eletricity.

Test operation

1. Preparation of test operation

- The client approves the air conditioner.
- Specify the important notes for air conditioner to the client.

2. Method of test operation

- Put through the power, press ON/OFF button on the remote controller to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.
- If the ambient temperature is lower than 16° C, the air conditioner can't start cooling. 30

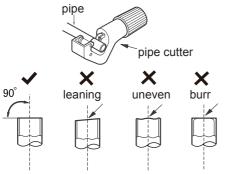
Pipe expanding method

Note:

Improper pipe expanding is the main cause of refrigerant leakage. Please expand the pipe according to the following steps:

A: Cut the pipe

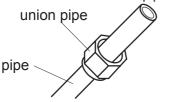
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



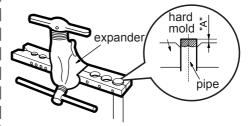
- B: Remove the burrs
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



- C: Put on suitable insulating pipe
- D: Put on the union nut
- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



- E: Expand the port
- Expand the port with expander.



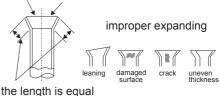
Note:

• "A" is different according to the diameter, please refer to the sheet below:

Outer diameter	A(mm)	
(mm)	Max	Min
Ф6 - 6.35(1/4")	1.3	0.7
Ф9.52(3/8")	1.6	1.0
Ф12-12.7(1/2")	1.8	1.0
Ф15.8-16(5/8")	2.4	2.2

- F: Inspection
- Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.





NOTE CONCERNING PROTECTION OF ENVIRONMENT



This product must not be disposed of via normal household waste after its service life, but must be taken to a collection station for the recycling of electrical and electronic devices. The symbol on the product, the operating instructions or the packaging indicate such disposal procedures. The materials are recyclable in accordance with their respective symbols. By means of re-use, material recycling or any other form of recycling old appliances you are making an important contribution to the protection of our environment. Please ask your local council where your nearest disposal station is located.

INFORMATION CONCERNING USED REFRIGERANT MEDIUM

This unit is containing fluorinated gases included in the Kyoto protocol. The maintanance and the liquidation must be carried out by qualified personel. Type of refrigerant: R410A The composition of the cooling medium R410A: (50% HFC-32, 50% HFC-125) The quantity of the refrigerant: please see the unit label. The value GWP: 2088 GWP = Global Warming Potential

In case of quality problem or other please contact your local supplier or authorized service center. **Emergency number: 112**

PRODUCER

SINCLAIR CORPORATION Ltd. 1-4 Argyll St. London W1F 7LD Great Britain

www.sinclair-world.com

This product was manufactured in China (Made in China).

REPRESENTATIVE, TECHNICAL SUPPORT

NEPA spol. s r.o. Purkyňova 45 612 00 Brno Czech republic

Tel.: +420 541 590 140 Fax: +420 541 590 124

www.sinclair-solutions.com info@sinclair-solutions.com

CE