EN

USER'S MANUAL

SPECTRUM SERIES

ASH-xxBIS

SiNCLAiR

AIR CONDITIONING

"Original instructions"

Content

Operation Notices

ScreenOperation Guide

Maintenance

Malfunction

Installation Notice

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.

If it needs to install, move or maintain the air conditioner, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

Frequency band(s) in which the radio equipment operates：2400MHz-2483.5MHz
Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates：20dBm

R32: 675

Explanation of Symbols

⚠ DANGER — Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING — Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION — Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

NOTICE — Indicates important but not hazard-related information, used to indicate risk of property damage.

⚠ — Indicates a hazard that would be assigned a signal word WARNING or CAUTION.

 Appliance filled with flammable gas R32.

 Before use the appliance, read the owner's manual first.

 Before install the appliance, read the installation manual first.

 Before repair the appliance, read the service manual first.

The Refrigerant

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can leads to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.

- Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

WARNING：

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. The appliance shall be stored in a room without continuously operating ignition sources. (for example: open flames, an operating gas appliance or an operating electric heater.) Do not pierce or burn.

Appliance shall be installed, operated and stored in a room with a floor area larger than Xm^2 .(Please refer to table "a" in section of " Safety Operation of Inflammable Refrigerant" for Space X.)

Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigrants not contain odour. Read specialist's manual.

Precautions
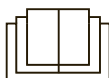
⚠ WARNING

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.

Precautions

- 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.

⚠ WARNING

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.

Precautions

- 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.

Precautions

- 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.
- Instructions for installation and use of this product are provided by the manufacturer.

Working temperature range

For some models:

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

NOTICE:
● The operating temperature range (outdoor temperature) for cooling only unit is -15℃ ~ 43℃ ; for heat pump unit is -15℃ ~ 43℃ .
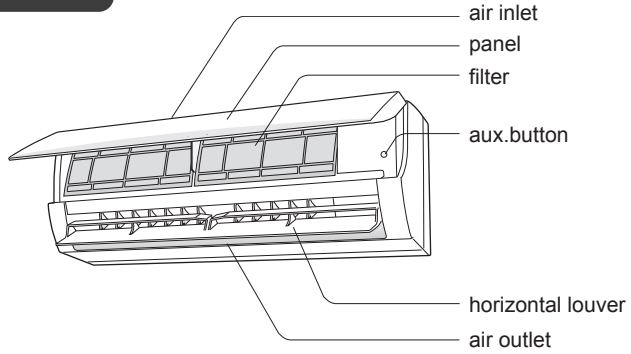
For models: ASH-18BIS2, ASH-24BIS2

	Indoor side DB/WB(℃)	Outdoor side DB/WB(℃)
Maximum cooling	32/23	52/32
Maximum heating	27/-	24/18

NOTICE:
● The operating temperature range (outdoor temperature) for cooling only unit is -18℃ ~ 52℃ ; for heat pump unit is -30℃ ~ 52℃ .

Parts Name

Indoor Unit

air inlet

panel

filter

aux.button

horizontal louver

air outlet

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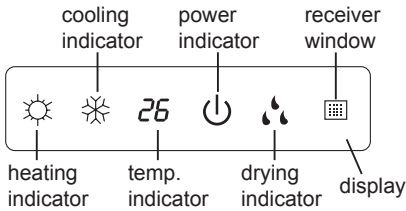
remote control

NOTICE:

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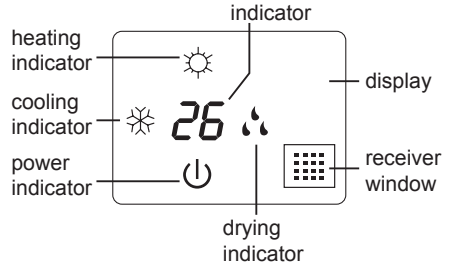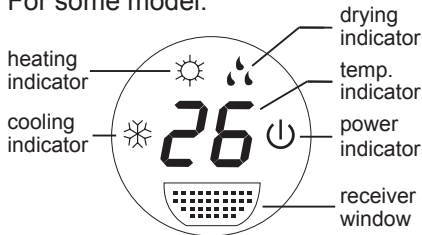
Parts Name

Display

For some model:

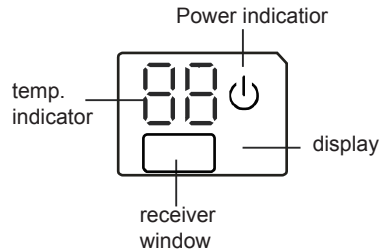cooling indicator | power indicator | receiver window

☼ ❄ 26 ⏻ 💧 ▦

heating indicator | temp. indicator | drying indicator | display

For some model:

heating indicator | temp. indicator

cooling indicator | ❄ 26 💧 | display

power indicator | ⏻ | ▦ receiver window

drying indicator

For some model:

drying indicator

heating indicator — ☼ 💧 — temp. indicator

cooling indicator — ❄ 26 ⏻ — power indicator

receiver window

For some model:

Power indicatior

temp. indicator — 88 ⏻

display

receiver window

For some model: display

temp. indicator — 26

receiver window — ● ⏻

●

❄ ☼ 💧
W R G

Power LED color indicator:
Green-status-ON.
Red -status-OFF.

Mode LED color indicator:

White-W-Cool Mode- ❄ W

Red-R-Heat Mode- ☼ R (only for heating model)

Green-G-Dry Mode- 💧 G

For some model: display

temp. indicator — 26

receiver window — ⏻

●

❄ ☼ 💧
W R O

Power LED color indicator:
Green-status-ON.
Red -status-OFF.

Mode LED color indicator:
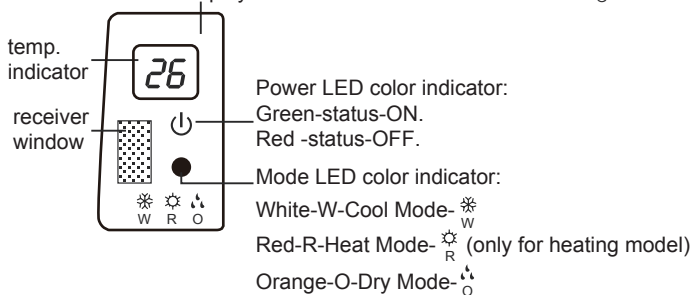
White-W-Cool Mode- ❄ W

Red-R-Heat Mode- ☼ R (only for heating model)

Orange-O-Dry Mode- 💧 O
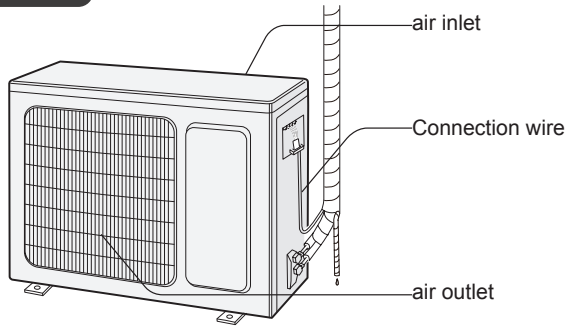
Display content or position may be different from above graphics, please refer to actual products.

Parts Name
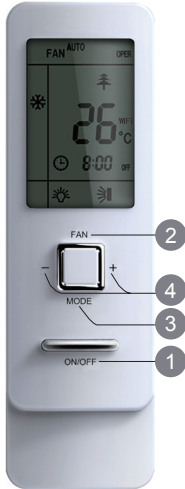
Outdoor Unit

air inlet

Connection wire

air outlet

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

Buttons on remote controller
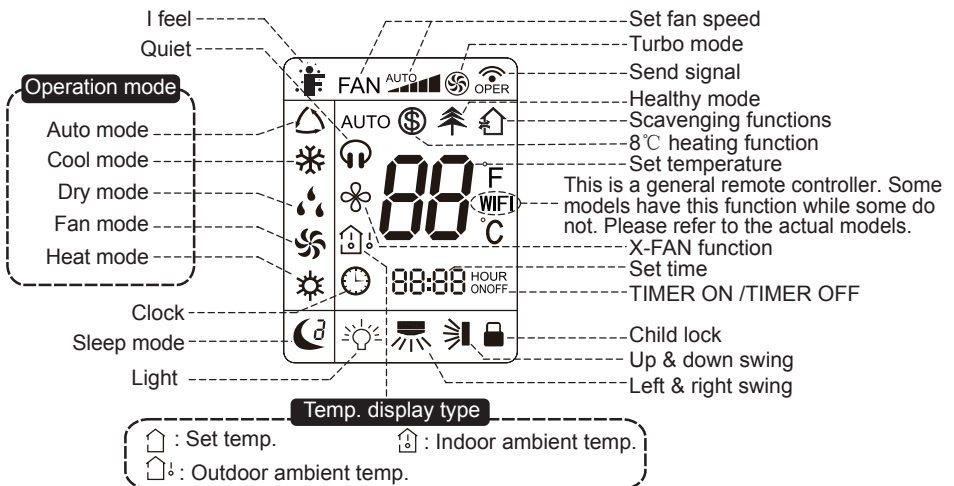

(before opening cover)

(after opening cover)

1 ON/OFF button

2 FAN button

3 MODE button

4 +/- button

1 ON/OFF button

2 FAN button

3 MODE button

4 +/- button

5 TURBO button

6 🌫 button

7 ⇟ button

8 CLOCK button

9 TIMER ON/
TIMER OFF button

10 TEMP button

11 ⇡/🏠 button

12 I FEEL button

13 LIGHT button

14 WiFi button

15 QUIET button

16 SLEEP button

Introduction for icons on display screen

I feel

Quiet

Operation mode

Auto mode

Cool mode

Dry mode

Fan mode

Heat mode

Clock

Sleep mode

Light

Set fan speed

Turbo mode

Send signal

Healthy mode

Scavenging functions

8℃ heating function

Set temperature

This is a general remote controller. Some models have this function while some do not. Please refer to the actual models.

X-FAN function

Set time

TIMER ON /TIMER OFF

Child lock

Up & down swing

Left & right swing

Temp. display type

🏠 : Set temp.   🏠̊ : Indoor ambient temp.

🏠̊ : Outdoor ambient temp.

J

Introduction for buttons on remote controller

Note:
- ●This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model don't have, if press the corresponding button on the remote controller that the unit will keep the original running status.
- ● After putting through the power, the air conditioner will give out a sound. Operation indictor " $\bigcup$ " is ON (red indicator the colour is different for different models). After that, you can operate the air conditioner by using remote controller.
- ● Under on status, pressing the button on the remote controller, the signal icon " $\widehat{\mathbb{R}}$ " on the display of remote controller will blink once and the air conditioner will give out a "de" sound, which means the signal has been sent to the air conditioner.
- ● Under off status, set temperature and clock icon will be displayed on the display of remote controller (If timer on, timer off and light functions are set, the corresponding icons will be displayed on the display of remote controller at the same time); Under on status, the display will show the corresponding set function icons.

1 ON/OFF button

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

2 FAN button

Press this button, Auto, Low, Medium-low, Medium, Medium-high, High speed can be circularly selected. After powered on, Auto fan speed is default. Under DRY mode, Low fan speed only can be set up.

ATUO   Low fan   Medium-low fan   Medium fan   Medium-high fan   High fan

Note:
- ● It's Low fan speed under Dry mode.
- ● X-FAN function: Hold fan speed button for 2s in COOL or DRY mode, the icon " $\frac{o}{\delta}$ " is displayed and the indoor fan will continue operation for a few 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.

  This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.
  - • Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for a few minutes. at low speed. In this period, Hold fan speed button for 2s to stop indoor fan directly.
  - • Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

Introduction for buttons on remote controller

3 MODE button

Press this button, Auto, Cool, Dry, Fan, Heat mode can be selected circularly. Auto mode is default while power on. Under Heat mode, the initial value is 28 ℃ (82 ℉) Under other modes, the initial value is 25 ℃ (77℉).

△ AUTO   ❄ COOL   ᠘ DRY
❀ FAN   ☼ HEAT

(only for cooling and heating unit. As for cooling only unit, it won't have any action when it receives the signal of heating operation.)

4 +/- button

Press " + " or " - " button once increase or decrease set temperature 1°C(°F). Holding " + " or " - " button, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly.
When setting TIMER ON, TIMER OFF or CLOCK, press " + " or " - " button to adjust time. (Refer to CLOCK, TIMER ON, TIMER OFF buttons) When setting TIMER ON, TIMER OFF or CLOCK, press " + " or " - " button to adjust time. (Refer to CLOCK, TIMER ON, TIMER OFF buttons)

5 TURBO button

Under Cool or Heat mode, press this button can turn on or turn off the Turbo function. After the Turbo function turned on, the signal of Turbo will display. The signal will be automatically cancelled if changing the mode or fan speed.

6 🌫 button

Press this button to set left & right swing angle cycling as below:

OFF
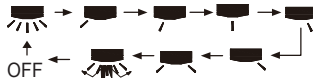
7 〉 button

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

OFF

This remote controller is universal. If it receives threes kinds of following status, the

swing angle will remain original.

� indicators

If guide louver is stopped when it is swinging up and down, it will remian its present position.

⇗ indicates guide louver swings back and forth in the five places, as shown in the figure.

8 CLOCK button

Press this button, the clock can be set up, signal ⊕ blink and display. Within 5 seconds, the value can be adjusted by pressing + or - button, if continuously press this button for 2 seconds above, in every 0.5 seconds, the value on ten place ofMinutewill be increased 1. During blinking, repress the Clock button or Confirm button, signal ⊕ will be constantly displayed and it denotes the setting succeeded. After powered on, 12:00 is defaulted to display and signal ⊕ will be displayed. If there is signal ⊕ be displayed that denotes the current time value is Clock value, otherwise is Timer value.

9 TIMER ON/TIMER OFF button

• Timer On setting: Sign al "ON" will blink and display, signal ⊕ will conceal, the numerical section will become the timer on setting status. During 5 seconds blink, by pressing + or - button to adjust the time value of numerical section, every press of that button, the value will be increased or decreased 1 minute. Hold pressing + or - button, 2 seconds later, it quickly change, the way of change is: During the initial 2.5 seconds, ten numbers change in the one place of minute, then the one place is constant, ten numbers change in the tens place of minu te at 2.5 seconds speed and carry. During 5s blink, press the Timer button, the timer setting succeeds. The Timer On has been set up, repress the timer button, the Timer On will be canceled. Before sett ing the Timer, please adjust the Clock to the current actual time.

• One press this key to enter into TIMER OFF setup, in which case the TIMER OFF icon will blink. The method of setting is the sameas for TIMER ON.

10 TEMP button

• Press this button, you can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. The setting on remote controller is selected circularly as below:
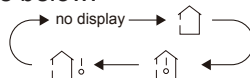
no display ⟶ 🏠 ⟶ 🏠 ⟶ 🏠₀

• When selecting " 🏠 " with remote controller or no display, temperature indicator on indoor unit displays set temperature; When selecting " 🏠 " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature; When selecting "🏠₀" with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature. 3s later it will return to the setting temprature or it depends on the other received signal within 3s.

Introduction for buttons on remote controller

Attention: When displaying the outdoor ambient, the displaying range is 0-60℃
When it goes beyond the range, it keeps the threshold data (the smallest—0℃
and the largest 60℃).

Warm tips: When operating buttons on the cover please make sure the cover is
closed completely.

Note: Outdoor temperature display is not available for some models. At that time,
indoor unit receives " 🏠 " signal, while it displays indoor set temperature.

11 🌲/🏠 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 " 🏠 " . Press the button for the second time to start healthy and sc-
avenging functions simultaneously; LCD displays " 🏠 " and " 🌲 ". Press this button
for the third time to quit healthy and scavenging functions simultaneously. Press the
button for the fourth time to start healthy function; LCD display " 🌲 " . Press this bu-
tton again to repeat the operation above.

NOTE: This function is applicable to partial of models.

12 I FEEL button

Press this button once, to turn on the I FEEL function, then the figure of "I FEEL"
will be displayed, after every press of other function button, every 200ms to send
I FEEL once, after this function started, the remote controller will send temperature
to the main un it in every 10 minutes. When repress this button, this function will be
turned off. When I FEEL function is turned on, the remote controller should be put
within the area where indoor unit can receive the signal sent by the remote controller.

13 LIGHT button

Press this button at unit On or Off status, Light On and Light Off can be set up.
After powered on, Light On is defaulted.

14 WiFi button

Press " **WiFi** " button to turn on or turn off WiFi function. When WiFi function is
turned on, the " **WiFi** " icon will be displayed on remote controller; Under status
of remote controller off, press "MODE" and " **WiFi** " buttons simultaneously for 1s,
WiFi module will restore to factory default setting.

● This function is only available for some models.

15 QUIET button

Press this button, the Quiet status is under the Auto Quiet mode (display " 🎧 " and "Auto" signal) and Quiet mode (display " 🎧 " singal) and Quiet OFF (there is no signal of " 🎧 " displayed), after powered on, the Quiet OFF is defaulted.
Under the Quiet mode (Display " 🎧 " signal).
The Quiet function is only available for some models.

16 SLEEP button

- Press this button, can select Sleep 1 (🌙1), Sleep 2 (🌙2), Sleep 3 (🌙3) and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted.
- Sleep 1 is Sleep mode 1, in Cool modes: sleep status after run for one hour, the main unit setting temperature will increase 1℃, 2 hours, setting temperature increased 2 ℃, the unit will run at this setting temperature; In Heat mode:sleep status after run for one hour, the setting temperature will decrease 1 ℃, 2 hours, setting temperature will decrease 2℃, then the unit will run at this setting temperature.
- Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.
  In Cool mode:
  (1) When setting the initial temperature 16℃-23℃, after turned on Sleep function, the temperature will be increased 1℃ in every hour, after 3℃ the temperature will be maintained, after 7hours, the temperature will be decreased 1℃, after that the unit will keep on running under this temperature;
  (2) When setting the initial temperature 24℃-27℃, after turned on Sleep function, the temperature will be increased 1℃ in every hour, after 2℃ the temperature will be maintained, after 7hours, the temperature will be decreased 1℃, after that the unit will keep on running under this temperature;
  (3) When setting the initial temperature 28℃-29℃, after turned on Sleep function, the temperature will be increased 1℃ in every hour, after 1℃ the temperature will be maintained, after 7hours, the temperature will be decreased 1℃, after that the unit will keep on running under this temperature;
  (4) When setting the initial temperature 30℃, under this temperature setting, after 7hours, the temperature will be decreased 1℃, after that the unit will keep on running under this temperature;

  In Heat mode:
  (1) Under the initial presetting temperature 16℃, it will run under this setting temperature all along.

(2) Under the initial presetting temperature17℃-20℃, after Sleep function started up, the temperature will decrease 1℃ in every hour, after 1℃ decreased, this temperature will be maintained.

(3) Under the initial presetting temperature 21℃-27℃, after Sleep function started up, the temperature will decrease 1℃ in every hour, after 2℃ decreased, this temperature will be maintained.

(4) Under the initial presetting temperature 28℃-30℃, after Sleep function started up, the temperature will decrease 1℃ in every hour, after 3℃ decreased, this temperature will be maintained.

• Sleep 3 - the sleep curve setting under Sleep mode by DIY:

(1) Under Sleep 3 mode, press "Turbo" button for a long time, remote controller enters into user individuation sleep setting status, at this time, the time of remote controller will display "1hour", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);

(2) Adjust "+" and "-" button, could change the corresponding setting temperature, after adjusted, press "Trubo" button for confirmation;

(3) At this time, 1hour will be automatically increased at the timer postion on the remote controller, (that are "2hours" or "3hours" or "8hours"), the place of setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink;

(4) Repeat the above step (2)~(3) operation, until 8hours temperature setting finished, sleep curve setting finished, at this time, the remote controller will resume the original timer display; temperature display will resume to original setting temperature.

• Sleep3 - the sleep curve setting under Sleep mode by DIY could be inquired:
The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press "Turbo" button directly for confirmation.

Note: In the above presetting or enquiry procedure, if continuously within10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "ON/OFF" button, "Mode" button, "Timer" button or "Sleep" button, the sleep curve setting or enquiry status will quit similarly.

Introduction for special function

About AUTO RUN

When AUTO RUN mode is selected, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.

About turbo function

If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temp. approachs the preset temp. as soon as possible.

About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controller is locked, the icon 🔒 will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

About swing up and down

1. Press swing up and down button continuously more than 2s, the m ain unit will swing backand forth from up to down , and then loosen the button, the unit will stop swing and present position of guide louver will be kept immediately.
2. Under swing up and down mode, when the status is switched from off to ⇶| , if press this button again 2s later, ⇶| status will switch to off status directly; If press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

About swing left and right

1. Press swing left and right button continuously more than 2s, the main unit will swing back and forth from left to right, and then loosen the button, the unit will stop swing and present position of guide louver will be kept immediately.
2. Under swing left and right mode, when the status is switched from off to 🔳, if press this button again 2s later, 🔳 status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

Introduction for special function

About switch between Fahrenheit and Centigrade

Under status of unit off, press MODE and - buttons simultaneously to switch ℃ and ℉.

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

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

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

Press "TEMP" and "CLOCK" simultaneously in HEAT mode to start 8℃ Heating Function Nixie tube on the remote controller displays "⑤" and a selected temperature of "8℃". (46℉ if Fahrenheit is adopted). Repeat the operation to quit the function.

About Quiet function

When quiet function is selected:
1. Under cooling mode: indoor fan operates at notch 4 speed. 10 minutes later or when indoor ambient temperature≤28℃, indoor fan will operate at notch 2 speed or quiet mode according to the comparison between indoor ambinet temperature and set tem-perature.
2. Under heating mode: indoor fan operates at notch 3 speed or quiet mode according to the comparison between indoor ambient temperature and set temperature.
3. Under dry, fan mode: indoor fan operates at quiet mode.
4. Under auto mode: the indoor fan operates at the auto quiet mode according to actual cooling, heating or fan mode.

About Sleep function

Under the Fan、Dry and Auto mode, the Sleep function cannot be set up, Select and enter into any kind of Sleep mode, the Quiet function will be attached and stared, different Quiet status could be optional and turned off.

Operation guide

General operation

1. After powered on, press ON/OFF button, the unit will start to run. (Note: When it is powered on, the guide louver of main unit will close automatically.)
2. Press MODE button, select desired running mode.
3. Pressing + or - button, to set the desired temperature.
4. Pressing FAN button, set fan speed, can select AUTO FAN, LOW, MEDIUM-LOW, MEDIUM, MEDIUM-HIGH and HIGH.
5. Pressing ⟩⟨ and 🛲 button, to select the swing.
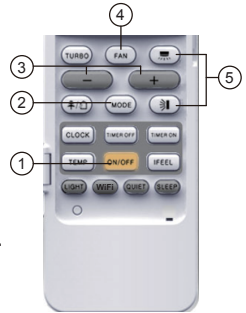
Optional operation

1. Press SLEEP button, to set sleep.
2. Press TIMER ON and TIMER OFF button, can set the scheduled timer on or timer off.
3. Press LIGHT button, to control the on and off of the displaying part of the unit (This function may be not available for some units).
4. Press TURBO button, can realize the ON and OFF of TURBO function.
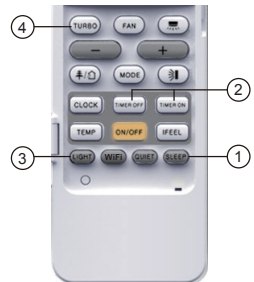
Replacement of batteries in remote controller

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.
2. 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.

battery

reinstall

remove

Cover of battery box
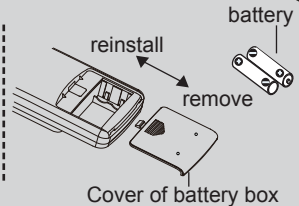
NOTICE

● 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.

panel

aux. button
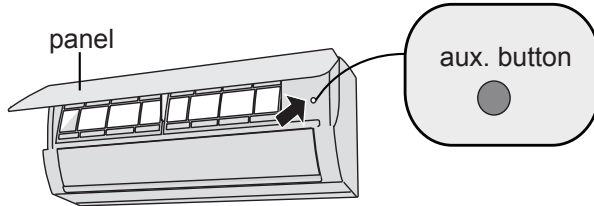
⚠ WARNING:

Use insulated object to press the auto button

Clean and maintenance

⚠ WARNING

■ 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:

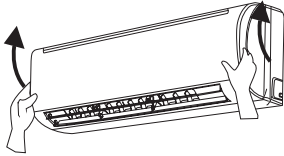● Do not remove the panel when cleaning it.
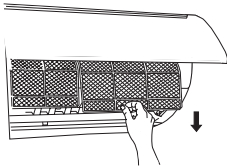
Clean and Maintenance

Clean filter

1 **Open panel**
Pull out the panel to a certain angle as shown in the fig.
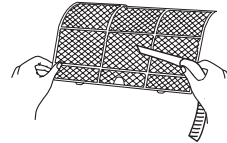
2 **Remove filter**
Remove the filter as indicated in the fig.

3 **Clean filter**
● Use dust catcher or water to clean the filter.
● When the filter is very dirty, use the water (below 45℃) to clean it, and then put it in a shady and cool place to dry.

4 **Install filter**
Install the filter and then close the panel cover tightly.
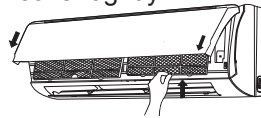
⚠ WARNING

■ 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 and air outlets are blocked.
2. Check whether air switch, plug and socket are in good condition.
3. Check whether filter is clean.
4. Check whether mounting bracket for outdoor unit is damaged or corroded. If yes, please contact dealer.
5. Check whether drainage pipe is damaged.

NOTICE: Checking after use-season

1. Disconnect power supply.
2. Clean filter and indoor unit's panel.
3. Check whether mounting bracket for outdoor unit is damaged or corroded. If yes, please contact dealer.

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.

Malfunction analysis

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
Indoor unit can't receive remote controller's signal or remote controller has no action.	● 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.
	● Whether there are obstacles?	● Remove obstacles.
	● Whether remote controller is pointing at the receiving window?	● Select proper angle and point the remote controller at the receiving window on indoor unit.
	● Is sensitivity of remote controller 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 controller 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.
No air emitted from indoor unit	● Air inlet or air outlet of indoor unit is blocked?	● Eliminate obstacles.
	● Under heating mode, indoor temperature is reached to set temperature?	● After reaching to set temperature, indoor unit will stop blowing 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 several minutes, which is a normal phenomenon.

2G

Malfunction analysis

Phenomenon	Check items	Solution
Air conditioner can't operate	● 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.
	● Wiring has malfunction?	● Ask professional to replace it.
	● 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 emitted from indoor unit's air outlet	● Indoor temperature and humidity is high?	● Because indoor air is cooled rapidly. After a while, indoor temperature and humidity will be decrease and mist will disappear.
Set temperature can't be adjusted	● Unit is operating under auto mode?	● Temperature can't be adjusted under auto mode. Please switch the operation mode if you need to adjust temperature.
	● Your required temperature exceeds the set temperature range?	● Set temperature range: 16℃ ~30℃ .
Cooling (heating) effect is not good.	● Voltage is too low?	● Wait until the voltage resumes normal.
	● 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.

Malfunction analysis

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 conditioner operates abnormally	● 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.

Malfunction analysis

● 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.
H6	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
C5	Please contact qualified professionals for service.
F0	Please contact qualified professionals for service.
F1	Please contact qualified professionals for service.
F2	Please contact qualified professionals for service.
H3	It can be eliminated after restarting the unit. If not, please contact qualified professionals for service.
E1	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.

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

⚠ WARNING

■ 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.

Safety operation of flammable refrigerant

Qualification requirement for installation and maintenance man

- All the work men who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.
- It can only be repaired by the method suggested by the equipment's manufacturer.

Installation notes

- The air conditioner is not allowed to use in a room that has running fire (such as fire source, working coal gas ware, operating heater).
- It is not allowed to drill hole or burn the connection pipe.
- The air conditioner must be installed in a room that is larger than the minimum room area. The minimum room area is shown on the nameplate or following table a.
- Leak test is a must after installation.

table a - Minimum room area (m^2)

	Charge amount (kg)	≤1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5
Minimum room area(m^2)	floor location	/	14.5	16.8	19.3	22	24.8	27.8	31	34.3	37.8	41.5	45.4	49.4	53.6
	window mounted	/	5.2	6.1	7	7.9	8.9	10	11.2	12.4	13.6	15	16.3	17.8	19.3
	wall mounted	/	1.6	1.9	2.1	2.4	2.8	3.1	3.4	3.8	4.2	4.6	5	5.5	6
	ceiling mounted	/	1.1	1.3	1.4	1.6	1.8	2.1	2.3	2.6	2.8	3.1	3.4	3.7	4

Maintenance notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.
  - It's only allowed to be operated in the rooms that meet the requirement of the nameplate.
- Check whether the maintenance area is well-ventilated.
  - The continuous ventilation status should be kept during the operation process.
- Check whether there is fire source or potential fire source in the maintenance area.
  - The naked flame is prohibited in the maintenance area; and the "no smoking" warning board should be hanged.
- Check whether the appliance mark is in good condition.
  - Replace the vague or damaged warning mark.

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 maintenance and the liquidation must be carried out by qualified personnel.
Type of refrigerant: R32
The quantity of the refrigerant: please see the unit label.
The value GWP: 675 (1 kg R32 = 0,675 t CO2 eq)
GWP = Global Warming Potential

Appliance filled with flammable gas R32.

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

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