

SYMPHONY SERIES

ASH-09AISR, ASH-09AISB, ASH-09AISW ASH-13AISR, ASH-13AISB, ASH-13AISW



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Never attempt. Be sure to follow this instruction

The physical product may differ from the drawing in this manual for different display. If there are some differences between them, please refer to the physical product as the standard.

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 they are away from the appliance.



Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

Safety Precautions

Please read the following notices before operation.

WARNING

★ If there's abnormal phenomenon (like smell of burning), please cut off the power immediately and then contact with authorized maintenance center.



OF OF

If this abnormal status is kept on, air conditioner may be damaged or even cause electric shock or fire. ★ Do not operate the air conditioner with wet hands.





Otherwise, it may cause electric shock.

★ Do not cut off or damage the power cord or signal control wire. If the power cord or signal control wire of air conditioner is damaged, please replace it by the professional with specified power cord.



★ The special circuit must be adopted for power supply to avoid fire.





Do not use octopus multipurpose socket or mobile wiring board for wire connection.

★ Please cut off the power supply when the air conditioner won't be used for an extended period of time.





Otherwise, accumulated dust may cause overheating, fire and other accidents.

★ Do not damage the power cord or use unspecified power cord.





Otherwise, it may cause fire due to overheating of power cord.

★ Before cleaning the air conditioner, please cut off the power.



Otherwise, it will cause electric shock or injury.

★ Power supply should adopt the special circuit with the protection of air switch and the capacity must be sufficient. Pease do not turn on or turn off the air conditioner frequently.

Y-type connection is adopted for the power supply of this air conditioner. If the power cord is damaged, it must be replaced by the manufacturer, maintenance center or a similarly qualified person to avoid a hazard.

★ When the voltage is too high, electric elements can be damaged easily; if the voltage is too low, the compressor will vibrate fiercely, which may damage the cooling system or compressor, and electric components can't operate.

Safety Precautions

 \bigwedge

Always ensure effective earthing.



shock.



★ For safety, be sure to turn off the circuit beaker before performing any maintenance or cleaning or when the product is not used for an extended period of time.





Accumulated dust may cause fire or electric shock.

Select the most appropriate temperature.



It can save electric energy.

★ Do not keep windows and doors open for a long time during operation.

No earthing may cause electric



★ Do not block the air inlet or outlet.





It will result in insufficient performance. It will result in insufficient performance and cause malfunctions.

★ Keep combustible materials at least 1m away from the units.



It may cause fire or explosion.

★ Install the outdoor unit firmly enough.



It may cause falling of the unit and injury to the person.

★ Do not step on the top of the outdoor unit or place heavy things on it.



It may cause damage or injury.

★ Do not attempt to repair the air conditioner by yourself.

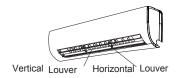


Incorrect repairs may cause electric shock or fire. Please contact the local authorised service center.

Safety Precautions

★ Do not cut off or damage the power cords or control cords. If they are damaged, please contact the dealer or qualified service personnel ★ To change the airflow direction, adjust the vertical and horizontal air flow direction by using the remote controller.

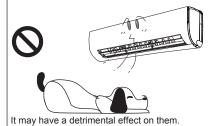




★ Do not insert your hands or objects into the air in let or outlet.



 \bigstar Do not expose animals $\ \, {\rm or}$ plants directly to the air flow .

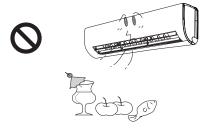


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★ Do not expose yourself to cold air directly for a long time.



★ Do not use the unit for any other purpose , such as preserving food or drying clothes.



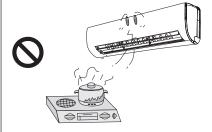
It's not good for your health.

★ Do not splash water on the air conditioner.



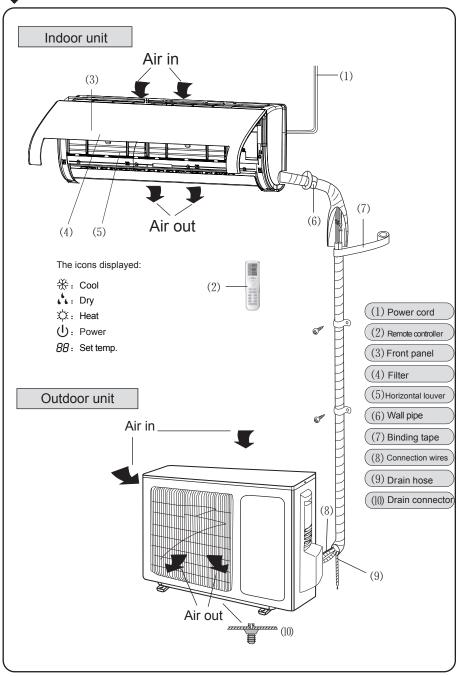
It may cause electric shock or malfunction.

★ Do not place a burner near the air conditioner



It will cause CO toxicosis due to incomplete burning.

◆ Name of Parts





1 ON/OFF

Press it to start or stop operation.

- : Press it to decrease temperature setting.
- + : Press it to increase temperature setting.

4 MODE

Press it to select operation mode (AUTO/COOL/DRY/FAN/HEAT).

- 5 FAN
 Press it to set fan speed.
- 6 SWING
 Press it set swing angle.
- 7 I FEEL
- 8 ♣/介 (not available)Press it to set HEALTH or AIR function.
- 9 SLEEP
- 10 TEMP
- 11 QUIET
 Press it to set QUIET function.
- 12 CLOCK
 Press it set clock.
- T-0N T-0FF

 Press it to set auto-off/auto-on timer.
- 14 TURBO
- LIGHT Press it to turn on/off the light.
- 16 X-FAN

Remote Controller Description

1 ON/OFF:

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

2 _

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.

3 + :

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.

4 MODE :

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:



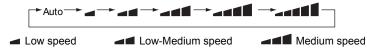
*Note:Only for models with heating function.

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.

5 FAN:

This button is used for setting Fan Speed in the sequence that goes from AUTO, ■,

to then back to Auto.



Medium-High speed High speed

6 SWING:

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

This remote controller is universal . If any command $\Rightarrow 1$, $\Rightarrow 1$ or $\Rightarrow 1$ is sent out, the unit will carry out the command as $\Rightarrow 1$

indicates the guide louver swings as:

\\ + \\ +-\\-\-\-\|

7 | FEEL:

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.

Remote Controller Description

8 条/幻

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 scavenging 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 button again to repeat the operation above.

9 SLEEP:

- 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, Dehumidify modes: sleep status after run for one hour, the
 main unit setting temperature will increase 1 °C, setting temperature increased 2°C, the unit will
 run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting
 temperature will decrease 1 °C, 2 hours, setting temperature will decrease 2 °C, 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.
- Sleep 3- the sleep curve setting under Sleep mode by DIY:
 - (1) Under Sleep 3 mode, press "Turbo" button for a long time, remote control enters into user individuation sleep setting status, at this time, the time of remote control 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 control, (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) \sim (3) operation, until 8hours temperature setting finished, sleep,curve setting finished, at this time, the remote control 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 within 10s, 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.

10 TEMP:

Press this button, could select displaying the indoor setting temperature or indoor ambient temperature. When the indoor unit firstly power on it will display the setting temperature, if the temperature's displaying status is changed from other status to " (1)", displays the ambient temperature, 5s later or within 5s, it receives other remote control signal that will return to display the setting temperature. If the users haven't set up the temperature displaying status, that will display the setting temperature.

QUIET:

Press this button, the Quiet status is under the Auto Quiet mode (display " \(\hat{\text{\tinte\text{\tin\text{\texi{\texi\text{\text{\text{\text{\texi{\text{\text{\text{\text{\texi{\text{\text{\text{\texi}\text{\

12 CLOCK:

Press CLOCK button, blinking ①. 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 ② will be constantly displayed.

13 T-0N T-0FF:

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

After press of this button, (J) 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.

Press T-OFF 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:

Press this button to activate / deactivate the Turbo function which enables the unit to 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:

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 , is displayed. If the light is turned off, disappears.

16 X-FAN:

Pressing X-FAN button in COOL or DRY mode, the icon % is displayed and the indoor fan will continue operation for 10 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.

- 17 Combination of "+" and "-" buttons: About lock
 - Press"+ " and "-" buttons simultaneously to lock or unlock the keypad. If the remote controller is locked, is displayed. In this case, pressing any button, 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 $^{\circ}$ C and $^{\circ}$ F.
- 19 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.
- 20 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°F if Fahrenheit is adopted). Repeat the operation to guit the function.
- 21 About Back-lighting Function The unit lights for 4s when energizing for the first time, and 3s for later press.

Replacement of Batteries

- 1.Remove the battery cover plate from the rear of the remote controller. (As shown in the figure)
- 2. Take out the old batteries.
- 3. Insert two new AAA1.5V dry batteries, and pay attention to the polarity.
- 4. Reinstall the battery cover plate.

★ Notes:

- When replacing the batteries, do not use old or different types of batteries, otherwise, it may cause malfunction.
- If the remote controller will not be used for a long time, please remove batteries to prevent batteries from leaking.
- The operation should be performed in its receiving range.
- It should be kept 1m away from the TV set or stereo sound sets.
- If the remote controller does not operate normally, please take the batteries out and reinsert them after 30 seconds. If it still can't operate properly, replace the batteries.

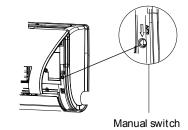




Emergency Operation

When the remote controller is lost or damaged, please use the manual switch on the main unit. In that case, the unit will operate in AUTO mode and the temperature setting or fan speed can not be changed.

The manual switch can be operated as below:



- Turn on the unit: Press AUTO/STOP button to enter AUTO mode.
 - The microprocessor will select the mode (COOL, HEAT, FAN) automatically according to the room temperature for reaching comfortable effect.
- Turn off the unit: Press the AUTO/STOP button to switch off the unit.
- The operation mode is shown in the following table.

Mode	Model	Temperature setting	Airflow rate
AUTO	COOLING	25℃ (COOL,FAN)	AUTO
AUTO	HEAT PUMP	25°C (COOL,FAN)	AUTO
AUTO	HEAT PUMP	20°C (HEAT)	AUTO

• This switch is to be applied when the remote controller is missing.

Care and Cleaning



Caution

- Disconnect the power supply before cleaning and maintenance.
- Do not splash water on the units for cleaning, as electric shocks may occur.
- Wipe the units with a dry soft cloth, or a cloth slightly moistened with water or cleaner (not with volatile liquid such as thinner or gasoline).

Cleaning the Front Panel

Remove the front panel. Dip a piece of cloth into the water colder than 45 $^{\circ}\mathrm{C}$ and dry it. Then wipe the dirty part of front panel.

Note: Do not immerse the front panel into water so as to protect microprocessor components and circuit diagram on the front panel.

Cleaning the Air Filter (every 3 months)

Note: If the air conditioner operates under dusty environment, the frequency of cleaning air filter shall increase correspondingly. When the filter is removed, do not touch the fins of the indoor unit with fingers for fear of scalding.

1 Take down the air filter

Press the clasp as shown by arrow (1) to loosen the lower end of clasps until a sound of "crack" is heard; press the clasp as shown by arrow (2) to open the upper end of clasp; open the panel and then pull the filter downward to remove it.(As shown in figa and b)

(Fig.a)

2 Clean the air filter

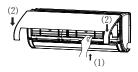
Clean the filter with a vacuum cleaner or wash the filter with water. If the filter is very dirty (such as oil stain), please clean it with the mixture of warm water (<45°C) and neutral abluent and then dry it up in the shade.

Note: Never use water above 45 °C to clean the air filter as it may cause deformation or discoloration.



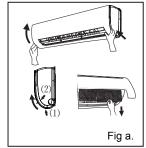
③ Reinstall the air filter

Install the air filter along arrow (1) direction and then buckle the panel cover along arrow (2).

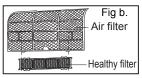


Installation and Maintenance for Healthy filter

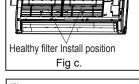
 Press the clasp as shown by arrow (1) to loosen the clasps at the lower end until a sound of "crack" is heard; press the clasp as shown by arrow (2) to open the clasps at the upper end; open the panel and then pull the filter downward to remove it. (As shown in fig a)

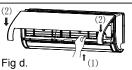


2. Install the healthy filter on the air filter (as shown in fig b). If the healthy filter fails to be installed on the air filter, please install the healthy filter on the front case (As shown in fig c) .



 Install the air filter along arrow (1) direction and then buckle the panel cover along arrow (2).
 (As shown in fig d)





Clean and Maintenance for Healthy Filter

Please remove the healthy filter before cleaning and reinstall it well after cleaning according to the installation instruction. Please note that the silver ion filter shall NOT be washed by water. Active carbon filter, photocatalytic filter, LTC catalyst and formaldehyde-killer filter can be washed by water, but shall not be scrubbed with a brush or hard object. When washing is completed, dry the filter in shade rather than wipe with a rag.

Service Life for Healthy Filter

The general service life for healthy filter is one year under normal operation. As to silver ion filter, it is ineffective when the surface turns black (or green).

• This complementary instruction is only referred for the unit with healthy filter. The graphs in this complementary instruction may be different from the actual product, please refer to the actual product. Please refer to the actual delivery for the quantity of healthy filter.

Care and Cleaning

Check before Use

Make sure that nothing obstructs the air inlet and air outlet of indoor and outdoor units.



- 2 Make sure there is effective grounding.
- Make sure the batteries for remote controller are replaced.
- Make sure the installation support for outdoor unit is in good condition. If it's damaged, please contact appointed maintenance center. If there is rust on the outdoor unit, please apply some paint to the rusty spot to avoid spreading. BE CAREFUL when painting!

Maintenance after Use

- 1 Disconnect the power for the air conditioner.
- (2) Clean the filter and the body of indoor and outdoor units.
- (3) Remove the dust and other objects on the outdoor unit.
- Make sure the installation support for outdoor unit is in good condition. If it's damaged, please contact appointed maintenance center. If there is rust on the outdoor unit, please apply some paint to the rusty spot to avoid spreading. BE CAREFUL when painting.
- (5) Indoor and outdoor units can be wrapped by special protective bags to avoid rain and dust getting into the units to erode them.

Troubleshooting



CAUTION

The air conditioner is not expected to be serviced by users. Incorrect repair may cause electric shock or fire, so please contact an authorized service center for professional service. The following checks prior to contact may save your time and money.

Phenomenon	Troubleshooting	
The unit does not operate:	The unit does not operate if it is turned on immediately after being turned off. This is to protect the unit. You are expected to wait for about 3 minutes.	
Odours are emitted:	Some odours may be emitted from the indoor unit. This is the result of room smells (such as furniture, tobacco, ect.) which have been taken into the air conditioner.	
	Consult authorized service center for cleaning if the odours still exist.	
"Water flowing" noise:	The swishing noise like water flowing is the sound of refrigerant flowing inside the unit.	
Mist is emitted in COOL mode	During cooling operation, a thin mist may be seen emitted from the indoor unit due to high room temperature and humidity. After a period of time, the mist will disappear with the decrease of room temperature and humidity.	
Cracking noise:	This is the sound of friction caused by expansion and/or contraction of panel or other parts due to the change of temperature.	

◆ Troubleshooting

Troubleshooting	
Phenomenon	Troubleshooting
The unit can not be started up:	 Is the power cut off? Is the power plug loose? (If applicable) Is the circuit protection device tripped off? Is voltage higher or lower? (Tested by professionals) Is the TIMER correctly used?
Cooling/Heating effect is poor:	 Is temperature setting appropriate? Is the inlet or outlet blocked? Is the filter dirty? Is the window or the door open? Is low fan speed set? Are there heat sources in the room?
Remote controller is not available:	Check if there is magnetic or electrical interference near the unit that may affecting operation of the controller. In this case, pull the plug out and reinsert it. Is the remote controller within its operating range or obstructed? Check the condition of the batteries and replace them if necessary. Check if the remote controller is damaged.
Water leakage of indoor unit :	 The humidity is high. Condensate overflows. Drain hose is loose.
Water leakage of outdoor unit :	 During cooling operation, condensate is generated around the pipes and connection joints. During defrosting operation, the thaw water flows out. During heating operation, the water on the heat exchanger drips out.
Noise from indoor unit.	 The noise emitted when the fan or compressor relay is switching on or off. When the defrosting operation is started or stopped, there is a sound of refrigerant flowing in the reverse direction.

◆ Troubleshooting

Phenomenon	Troubleshooting
Indoor unit can not blow air:	In HEAT mode, when the temperature of indoor heat exchanger is very low, air flow is stopped in order to prevent cold air. (Within 2 minutes)
	 In HEAT mode, when the outdoor temperature is low or humidity is high, frost will be formed on the outdoor heat exchanger. The unit will defrost automatically and indoor unit will stop blowing air for 3-12 minutes.
	 During defrosting operation, water or vapour may be emitted.
	 In DRY mode, the indoor fan will stop blowing air for 3-12 minutes in order to avoid condensate being vaporised again.
Moisture on air outlet :	If the unit operates at high humidity for a long time, moisture will be generated on the air outlet grill and then drip off.
C5: Malfunction of connector jumper:	Check if the connector jumper contacts properly. If the PCB is to be replaced, please take off the old for the new PCB.
F1: Malfunction of indoor ambient temperature sensor	 Check if indoor room temperature sensor is connected properly.
F2: Malfunction of evaporator temperature sensor	Check if the evaporator temperature is connected properly.



If any one of the following situations occurs, immediately stop all operations, cut off the power supply, and contact the authorized personnel

- There is harsh sound during operation.
- Strong odours are emitted during operation.
- Water is leaking from the unit.
- The air switch or protection switch often trips.
- Water or other liquid is splashed into the unit.
- Power cord and power plug is overheating.

Stop operation and cut off the power supply.

Operation Tips

Cooling Operation

Principle:

Air conditioners absorb heat in the room and transmit it to the outdoor unit so that the room temperature is decreased. The cooling capacity will increase or decrease according to outdoor ambient temperature.

Freeze Protection:

If the unit is operating in COOL mode and in low ambient temperature, frost may form on the heat exchanger. When indoor heat exchanger temperature decreases below zero, compressor will stop operation to protect the unit.

Heating Operation

Principle:

* Air conditioners absorb heat from outdoors and transmit it to the indoor unit, increasing room temperature. The heating capacity will decrease at low ambient temperature.

Defrosting:

- * When outdoor temperature is low but humidity is high, frost may form on the outdoor unit during extended operation, affecting heating efficiency. The air conditioner may stop operation during auto defrosting operation.
- * During auto defrosting, the fan motors of indoor unit and outdoor unit will stop.
- * During defrosting, the indoor indicator displays "**" and the outdoor unit may emit vapor. This is not malfunction.
- * After defrosting is finished, the heating operation will recover automatically.

Cold Blow Prevention:

In HEAT mode, the indoor fan will not operate in order to prevent cold air blowing out (within 2 minutes) if indoor heat exchanger doesn't reach a certain temperature under the following three states:

1. Heating operation starts; 2. After Auto Defrosting is finished; 3. Heating at low temperature.

Gentle Breeze

In the following situations, the indoor unit may blow gentle breeze, and the horizontal louver rotates to a certain position:

- 1. In HEAT mode, the compressor does not start operation after the unit is turned on.
- 2. In HEAT mode, the temperature reaches the set value and the compressor has stopped operation for about 1minutes.

Operation Tips

Operating Temperature Range			
	Indoor side DB/WB(°C)	Outdoor side DB/WB(°C)	
Maximum cooling	32/23	43/26	
Minimum cooling	21/15	21/15	
Maximum heating	27/	24/18	
Minimum heating	20/	-7/-8	

Tips for energy saving:

- * Do not overcool or overheat.
 - Setting temperature at a moderate level helps energy saving.
- * Cover windows with a blind or a curtain.

 Blocking sunlight and air from outdoors is favorable for cooling (heating).
- Clean air filters once per two weeks.
 Clogged air filters lead to inefficient operation and energy waste.

Tip for relative humidity:

Condensate is likely to form at the air outlet if cooling or drying for a long time when the relative humidity is more than 80% (with doors and windows open).



Notices for Installation



Caution

- The unit should be installed only by authorized service center according to local or government regulations and in compliance with this manual.
- Before installing, please contact with local authorized maintenance center. If the unit is not installed by the authorized service center, the malfunction may not be solved due to incovenient contact between the user and the service personnel.
- 3. When removing the unit to the other place, please firstly contact with the local authorized service center.
- 4. Warning: Before obtaining access to terminals, all supply circuits must be disconnected.
- 5.For appliances with type Y attachment, the instructions shall contain the substance of the following. 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.
- 6. The appliance must be positioned so that the plug is accessible.
- 7.The temperature of refrigerant line will be high; please keep the interconnection cable away from the copper tube.
- 8. The instructions shall state the substance of the following:

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.



Proper installation site is vital for correct and efficient operation of the unit. Avoid the following sites where:

- strong heat sources, vapours, flammable gas or volatile liquids are emitted.
- high-frequency electro-magnetic waves are generated by radio equipment, welders and medical equipment.
- salt-laden air prevails (such as close to coastal areas).
- the air is contaminated with industrial vapours and oils.
- the air contains sulphures gas such as in hot spring zones.
- · corrosion or poor air quality exists.

Notices for Installation

Installation Site of Indoor Unit

- The air inlet and outlet should be away from the obstructions. Ensure the air can be blown through the whole room.
- Select a site where the condensate can be easily drained out, and where it is easily connected to outdoor unit.
- 3. Select a place where it is out of reach of children.
- Select a place where the wall is strong enough to withstand the full weight and vibration of the unit.
- Be sure to leave enough space to allow access for routine maintenance. The installation site should be 250cm or more above the floor.
- 6. Select a place about 1m or more away from TV set or any other electric appliance.
- 7. Select a place where the filter can be easily taken out.
- 8. Make sure that the indoor unit is installed in accordance with installation dimension instructions.
- 9. Do not use the unit in the laundry or by swimming pool etc.

Installation Site of Outdoor Unit

- 1. Select a site where noise and outflow air emitted by the unit will not annoy neighbors.
- 2. Select a site where there is sufficient ventilation.
- 3. Select a site where there is no obstruction blocking the inlet and outlet.
- 4. The site should be able to withstand the full weight and vibration.
- 5. Select a dry place, but do not expose the unit to direct sunlight or strong wind.
- 6. Make sure that the outdoor unit is installed in accordance with the installation instructions, and is convenient for maintenance and repair.
- 7. The height difference between indoor and outdoor units is within 5 m, and the length of the connecting tubing does not exceed 10 m.
- 8. Select a place where it is out of reach of children.
- 9. Select a place where the unit does not have negative impact on pedestrians or on the city.

Safety Precautions for Electric Appliances

- A dedicated power supply circuit should be used in accordance with local electrical safety regulations.
- 2. Don't drag the power cord with excessive force.
- The unit should be reliably earthed and connected to an exclusive earth device by the professionals.
- The air switch must have the functions of magnetic tripping and heat tripping to prevent short circuit and overload.
- 5. The minimum distance between the unit and combustive surface is 1.5m.
- 6. The appliance shall be installed in accordance with national wiring regulations.
- 7. An all-pole disconnection switch with a contact separation of at least 3mm in all poles should be connected in fixed wiring.

Note:

- Make sure the live wire, neutral wire and earth wire in the family power socket are properly connected. There should be reliable circuit in the diagram.
- Inadequate or incorrect electrical connections may cause electric shock or fire.

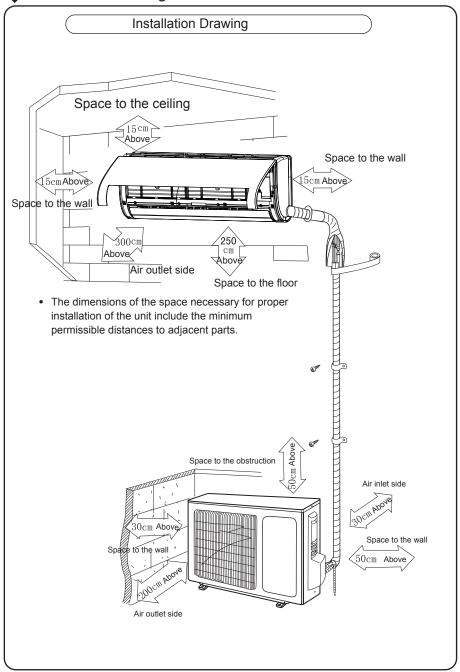


Earthing Requirements

- 1. Air conditioner is type I electric appliance. Please ensure that the unit is reliably earthed.
- The yellow-green wire in air conditioner is the earthing wire which can not be used for other purposes. Improper earthing may cause electric shock.
- 3. The earth resistance should accord to the national criterion.
- 4. The power must have reliable earthing terminal. Please do notconnect the earthing wire with the following:
 - ① Water pipe ② Gas pipe
 - as pipe 3 Contamination pipe
 - 4 Other place that professional personnel consider is unreliable
- The model and rated values of fuses should accord with the silk print on fuse cover or related PCB.
- 6. Including an air switch 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. (Caution: please do not use the fuse only for protect the circuit)

Air-conditioner (W)	Air switch capacity
09K	16A
12K	16A
18K	25A

Installation Drawing

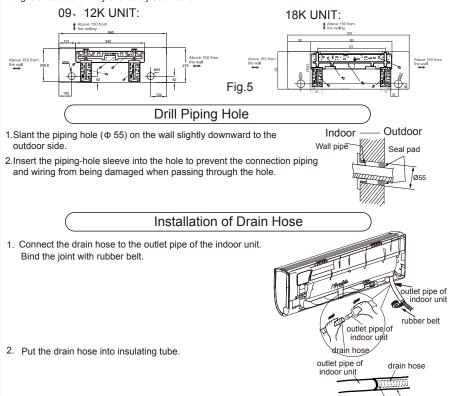




Installation of Indoor Unit

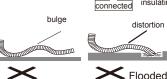
Installation of Mounting Plate

- 1. Mounting plate should be installed horizontally. As the water tray's outlet for the indoor unit is two-way type, during installation, the indoor unit should slightly slant to water tray's outlet for smooth drainage of condensate.
- 2. Fix the mounting plate on the wall with screws.
- 3.Be sure that the mounting plate has been fixed firmly enough to withstand about 60 kg. Meanwhile, the weight should be evenly shared by each screw.



Wrap the insulating tube with wide rubber belt to prevent the shift of insulating tube. Slant the drain hose downward slightly for smooth drainage of condensate.

Note: The insulating tube should be connected reliably with the sleeve outside the outlet pipe. The drain hose should be slanted downward slightly, without distortion, bulge or fluctuation. Do not put the outlet in the water.



outlet pipe of

indoor unit

rubber belt insulating tube

insulating tube

rubber_belt



Installation of Indoor Unit

Connecting Indoor and Outdoor Electric Wires

- 1. Open the front panel.
- 2.Remove the wiring cover as shown in Fig 6.
- 3. Make the power connection cord pass through the hole at the back of indoor unit.
- 4. Reinstall the cord anchorage and wiring cover.
- 5.Reinstall the front panel.

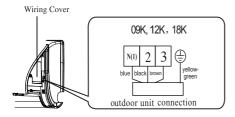


Fig.6

NOTF:

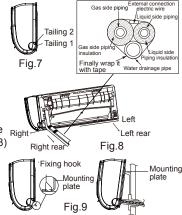
All wires between indoor and outdoor units must be connected by the qualified electric contractor.

- Electric wires must be connected correctly. Improper connection may cause malfunction.
- · Tighten the terminal screws securely.
- After tightening the screws, pull the wire slightly to confirm whether it's firm or not.
- Make sure that the electric connections are earthed properly to prevent electric shock.
- Make sure that all wiring connections are secure and the cover plates are reinstalled properly. Poor installation may cause fire or electric shock.

Installation of Indoor Unit

Installation of Indoor Unit

- The piping can be output from right, right rear, left or left rear.
- 1. When routing the piping and wiring from the left or right side of indoor unit, cut off the tailings from the chassis when necessary(As shown in Fig.7)
 - (1) Cut off tailing 1 when routing the wiring only;
 - (2) Cut off tailing 1 and tailing 2 when routing both the wiring and piping.
- Take out the piping from body case; wrap the piping, power cords, drain hose with the tape and then make them pass through the piping hole. (As shown in Fig.8)
- 3. Hang the mounting slots of the indoor unit on the upper hooks of the mounting plate and check if it is firm enough. (As shown in Fig.9)
- The installation site should be 250cm or more above the floor.



For 09 \ 12K UNIT:

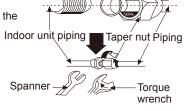
NOTE: Three situations (in front of the unit)

- 1. Connecting left water outlet of the unit, drain pipe is laid on the left of the unit.
- 2. Connecting to left or right water outlet, drain pipe is laid on the right of the unit.
- Connecting right water outlet of the unit, drain pipe goes through hole in the wall behind the indoor unit.

Installation of Connection Pipe

- 1. Align the center of the pipe flare with the related valve.
- Screw in the flare nut by hand and then tighten the nut with spanner and torque wrench by referring to the following:

Hex nut diameter	Tightening torque (N·m)
Ф6	15∼20
Ф 9.52	30∼40
Ф 12	45∼55
Ф 16	60∼65
Ф 19	70~75

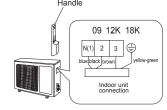


NOTE: Connect the connection pipe to indoor unit at first and then to outdoor unit. Handle piping bending with care. Do not damage the connection pipe. Ensure that the joint nut is tightened firmly, otherwise, it may cause leakage.

Installation of Outdoor Unit

Electric Wiring

- 1. Remove the handle on the right side plate of outdoor unit.
- 2.Take off wire cord anchorage. Connect and fix power connection cord to the terminal board. Wiring should fit that of indoor unit.
- Fix the power connection cord with wire clamps and then connect the corresponding connector.
- 4. Confirm if the wire has been fixed properly.
- 5. Reinstall the handle.



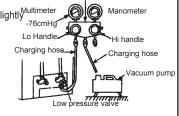
NOTE:

- · Incorrect wiring may cause malfunction of spare part.
- After the wire has been fixed, ensure there is free space between the connection and fixing places on the lead wire.

Schematic diagram being reference only, please refer to real product for authentic information.

Air Purging and Leakage Test

- 1. Connect charging hose of manifold valve to charge end of low pressure valve (both high/low pressure valves must be tightly shut).
- 2. Connect joint of charging hose to vacuum pump.
- 3. Fully open the handle of Lo manifold valve.
- 4. Open the vacuum pump for vacuumization. At the beginning, slightly loosen joint nut of low pressure valve to check if there is air coming inside (If noise of vacuum pump has been changed, the reading of multimeter is 0). Then tighten the nut.
- Keep vacuuming for more than 15mins and make sure the reading of multi-meter is -1.0 × 10⁵pa (-76cmHq).



Manifold

Fig.10

- 6. Fully open high/low pressure valves.
- 7. Remove charging hose from charging end of low pressure valve.
- 8. Tighten lid of low pressure valve. (As shown in Fig.10)

Outdoor Condensate Drainage (only for Heat pump unit)

During heating operation, the condensate and defrosting water should be drained out reliably through the drain hose.

Install the outdoor drain connector in a Ø 42 hole on

the base plate and attach the drain hose to the connector so that the waste water formed in the outdoor unit can be drained out .The hole diameter 42 must be plugged.

Drain-water hole
Bottom frame
Drain plug
Drain connecter
Hose (available commercially,

inner dia. 16mm)

Whether to plug other holes will be determined by the dealers according to actual conditions.

Check after Installation and Operation Test

Check after Installation

Items to be checked	Possible malfunction
Has the unit been fixed firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling(heating)
Is thermal insulation sufficient?	It may cause condensation.
Is water drainage satisfactory?	It may cause water leakage.
Is the voltage in accordance with the rated voltage marked on the nameplate?	It may cause electric malfunction or damage the unit.
Is the electric wiring or piping connection installed correctly and securely?	It may cause electric malfunction or damage the parts.
Has the unit been securely earthed?	It may cause electrical leakage.
Is the power cord specified?	It may cause electric malfunction or damage the parts.
Is the inlet or outlet blocked?	It may cause insufficient cooling(heating)
Is the length of connection pipes and refrigerant capacity recorded?	The refrigerant capacity is not accurate.

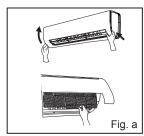
Operation Test

- 1. Before Operation Test
 - (1) Do not switch on power before installation is finished completely.
 - (2) Electric wiring must be connected correctly and securely.
 - (3) Cut-off valves of the connection pipes should be opened.
 - (4) All the impurities such as scraps and thrums must be cleared from the unit.
- 2. Operation Test Method
 - (1) Switch on power and press "ON/OFF" button on the remote controller to start operation.
 - (2) Press MODE button to select the COOL, HEAT (Not available for cooling only unit), FAN to check whether the operation is normal or not.

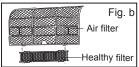
◆ Installation and Maintenance of Healthy Filter(Optional)

Installation of Healthy Filter

 Lift up the front panel from its two ends, as shown by the arrow direction, and then remove the air filter. (as shown in Fig.a)



2. Attach the healthy filter onto the air filter, (as shown in Fig.b).



3. Install the air filter properly along the arrow direction in Fig.c, and then close the panel .



Cleaning and Maintenance

Remove the healthy filter and reinstall it after cleaning according to the installation instruction. Do not use brush or hard objects to clean the filter. After cleaning, be sure to dry it in the shade.

Service Life

The general service life for the healthy filter is about one year under normal condition. As for silver ion filter, it is ineffective when its surface becomes black (green).

• This supplementary instruction is provided for reference to the unit with healthy filter. If the graphics provided herein are different from the actual product, please refer to the actual product. The quantity of healthy filters is based on the actual delivery.

SERIES			SYMPHONY		
			ASH-09AISR	ASH-13AISR	
MODEL			ASH-09AISB	ASH-13AISB	
			ASH-09AISW	ASH-13AISW	
Capacity	cooling	kW	2,6 (1,0-3,4)	3,5 (1,3-4,0)	
Capacity	heating	kW	2,9 (0,6-3,8)	3,8 (0,9-4,3)	
Power supply	Н	lz	50	50	
rower suppry	\	/	220-240	220-240	
Power current	cooling	Α	2,8	4,2	
rower current	heating	Α	3,1	4,6	
Power input	cooling	W	645 (200-1200)	970 (360-1300)	
rowei input	heating	W	695 (160-1250)	1055 (340-1360)	
EER	W	/W	4,0 (2,7-4,6)	3,6 (2,5-4,4)	
COP	W	/W	4,1 (2,4-4,2)	3,6 (2,1-3,7)	
Noise-indoor unit	dB	(A)	22-38	23-39	
Noise-outdoor unit	max	dB(A)	50	52	
Air flow	m ³	³/h	560	560	
Dehumidifying volume	1/	h 'h	0,8	1,4	
Refrigerant type / charge	type	/ kg	R410a/0,9	R410a/1,3	
Pipe diameter	Liquid side	inch / mm	¼/ 6	1/4 / 6	
ripe diameter	gas side	inch / mm	3/8 / 10	½ / 12	
Length of connection pipe	max	m	15	20	
Elevation/Drop height	max	m	10	10	
Dimension (w x h x d)	IU	mm	896x320x159	896x320x159	
Differsion (w x ii x u)	OU	mm	776x540x320	848x540x320	
Net weight	IU	kg	11,5	11,5	
INCL MCIRILL	OU	kg	29	38	
Operating temperature range	cooling	°C	18 ~ 43	18 ~ 43	
operating temperature range	heating	°C	-7 [~] 24	-7 ~ 24	

The specification of products is subject to change based further development of the units by the producer and can be changed without prior notice.

Data are based on following conditions:

Length of connection pipe: 5m

Cooling: indoor temperature 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB Heating condition: indoor temperature 20°C DB/15°C WB, outdoor temperature 7°C DB/6°C WB

ES Declaration of Conformity

in compliance with Council directive 73/23/EHS amended by Council directive 93/68/EHS (Government regulation no.168/1997 Sb. as amended by further changes and additions) and in compliance with Council directive 89/336/EHS amended by Council directive 93/68/EHS (Government regulation no.169/1997 Sb. as amended by further changes and additions)

Manufacturer:

NEPA, společnost s ručením omezeným Purkyňova 45 612 00 Brno Czech Republic

Description of the unit:

Air conditioners SINCLAIR are designed for adjustments of air by cooling and heating in residential and school facilities, offices, restaurants and similar facilities.

Models differentiate by sizing of the parts in respect of cooling / heating capacity and by design.

Wall mounted split	Multi combi	Floor-ceiling indoor
ASH-09AB	MC-H07AIC PT	ASF-18AIA
ASH-12AB	MC-H09AIC PT	ASF-24AIA
Wall mounted split	MC-H12AIC PT	ASF-36AIA
ASH-09AC PT	MC-H18AIC PT	ASF-42AIA
ASH-13AC PT	MC-F09AI	Cassette indoor
ASH-18AC PT	MC-F12AI	ASC-18AIA
ASH-24AC PT	MC-F18AI	ASC-24AIA
Wall mounted split	MC-F24AI	ASC-36AIA
ASH-09AIP PT	MC-C12AI	ASC-42AIA
ASH-12AIP PT	MC-C18AI	Duct indoor
ASH-18AIP PT	MC-C24AI	ASD-18AIA
ASH-24AIP PT	MC-D09AI	ASD-24AIA
Wall mounted split	MC-D12AI	ASD-36AIA
ASH-09AISW	MC-D18AI	ASD-42AIA
ASH-09AISB	MC-D24AI	Outdoor units
ASH-09AISR	MC-P09AI	ASGE-18AIA WK
ASH-13AISW	MC-P12AI	ASGE-24AIA WK
ASH-13AISB	MC-P18AI	ASGE-36AIA WK
ASH-13AISR	MC-E18AI	ASGE-36AIA-3 WK
	MC-E24AI	ASGE-42AIA-3 WK
	MC-E28AI	
	MC-E36AI	
	MC-E42AI	

The list of harmonized directives that were used for Declaration assessment:

EN 60335-1:2002, EN 60335-2-40:2003

EN 61000-6-3:2001, EN 55014-1:2006, EN 61000-3-2:2006, EN 61000-3-3:1995,

EN 55014-2:1997

PN-EN 55014-1:2004, PN-EN 55014-2:1999/A1:2004, PN-EN 60335-1:2004, PN-EN 60335-2-40:2004(U)

89/336/EEC, 89/392/EEC, 73/23/EEC (96/68/EEC)

PN-EN 61000-3-3:1997, PN-EN 61000-3-3:2004, PN-EN 61000-6-3:2004

The last two digits of the year when the mark CE was appointed on the product: 10

In Brno, date: 22.3.2012 Logical Stanislav Jobanek Business director.........

Name, function, signature of authorized person of manufacturer

name, function, signature of authorized deputy

SPLIT AIR CONDITIONER INDOOR UNIT

Model ASH-09AISW 220-240V~ Rated Voltage Rated Frequency 50Hz **Cooling Capacity** 2600W 2870W **Heating Capacity** Air Flow Volume 560m³/h Sound Pressure Level(H) 34dB(A) Weight 11.5kg Manufactured Date

sinclair

ISO9001

Sinclair Corporation Ltd, 1-4 Argyll St., London, UK 63229936470

SPLIT AIR CONDITIONER INDOOR UNIT

Model ASH-09AISB 220-240V~ Rated Voltage Rated Frequency 50Hz **Cooling Capacity** 2600W **Heating Capacity** 2870W Air Flow Volume 560m³/h Sound Pressure Level(H) 34dB(A) Weight 11.5kg

Manufactured Date

SINCLAIR
AIR CONDITIONING
ISO 9001

CETÜV

Sinclair Corporation Ltd, 1-4 Argyll St., London, UK 63229936468

SPLIT AIR CONDITIONER INDOOR UNIT

Model **ASH-09AISR** 220-240V~ Rated Voltage 50Hz Rated Frequency **Cooling Capacity** 2600W **Heating Capacity** 2870W Air Flow Volume 560m³/h Sound Pressure Level(H) 34dB(A) Weight 11.5kg

Manufactured Date

SINCLOIR
AIR CONDITIONING
ISO 9001

C E TÜV 🗵

Sinclair Corporation Ltd, 1-4 Argyll St., London, UK 63229936466

sinclair AIR COND

AIR CONDITIONER OUTDOOR UNIT

AR CONDITIONING			
Model	ASH-09AISW		
Rated Voltage	220-240V~ (ISO 5151)		
Rated Frequency	50Hz	Cooling Capacity	2600W
Climate Type	T1	Heating Capacity	2870W
Weight	29kg	Cooling Power Input	645W
Isolation	I	Heating Power Input 69	
Refrigerant	R410A	Cooling Rated Input	1400W
Refri. Charge	0.85kg	Heating Rated Input	1450W
Comp. LRA	25A	Sound Pressure Level	50dB(A)
Maximum Allow	3.8MPa		
Operating Pressure (Discharge Side/Suction Side)			2.8/1.2MPa
Manufactured Date		Moisture Protection	IP24

Contains fluorinated greenhouse gases covered by the Kyoto Protocol

CETUV ISO9001

Sinclair Corporation Ltd, 1-4 Argyll St., London, UK

6322993647

SINCLAIR AIR CONDITIONER OUTDOOR UNIT

Model	ASH-09AISB		
Rated Voltage	220-240V~ (ISO 5151)		
Rated Frequency	50Hz	Cooling Capacity	2600W
Climate Type	T1	Heating Capacity	2870W
Weight	29kg	Cooling Power Input	645W
Isolation	I	Heating Power Input	695W
Refrigerant	R410A	Cooling Rated Input	1400W
Refri. Charge	0.85kg	Heating Rated Input	1450W
Comp. LRA	25A	Sound Pressure Level	50dB(A)
Maximum Allowable Pressure			3.8MPa
Operating Pressure (Discharge Side/Suction Side)			2.8/1.2MPa
Manufactured Date		Moisture Protection	IP24

Contains fluorinated greenhouse gases covered by the Kyoto Protocol **C & TÜV** ISO9001

Sinclair Corporation Ltd. 1-4 Argyll St., London, U

63229936469

SINCLOIR AIR CONDITIONER OUTDOOR UNIT

Model	ASH-09AISR		
Rated Voltage	220-240V~	(ISO 5151)	
Rated Frequency	50Hz	Cooling Capacity	2600W
Climate Type	T1	Heating Capacity	2870W
Weight	29kg	Cooling Power Input	645W
Isolation	I	Heating Power Input	695W
Refrigerant	R410A	Cooling Rated Input	1400W
Refri. Charge	0.85kg	Heating Rated Input	1450W
Comp. LRA	25A Sound Pressure Level		50dB(A)
Maximum Allowable Pressure			3.8MPa
Operating Pressure (Discharge Side/Suction Side)			2.8/1.2MPa
Manufactured Date		Moisture Protection	IP24

Contains fluorinated greenhouse gases covered by the Kyoto Protocol

CETÜV ISO9001

Sinclair Corporation Ltd, 1-4 Argyll St., London, UK

63229936467

SPLIT AIR CONDITIONER **INDOOR UNIT**

Model **ASH-13AISW** Rated Voltage 220-240V~ Rated Frequency 50Hz **Cooling Capacity** 3500W 3810W **Heating Capacity** Air Flow Volume 560m³/h Sound Pressure Level(H) 36dB(A) Weight 11.5kg

Manufactured Date

sinclair ISO9001

C € TüV 🕱

Sinclair Corporation Ltd, 1-4 Argyll St., London, UK

SPLIT AIR CONDITIONER **INDOOR UNIT**

Model **ASH-13AISB** Rated Voltage 220-240V~ Rated Frequency 50Hz 3500W **Cooling Capacity Heating Capacity** 3810W Air Flow Volume 560m³/h Sound Pressure Level(H) 36dB(A) Weight 11.5kg **Manufactured Date**

sinclair

ISO9001 C E TüV 🗵

Sinclair Corporation Ltd, 1-4 Argyll St., London, UK

SPLIT AIR CONDITIONER INDOOR UNIT

Model **ASH-13AISR** Rated Voltage 220-240V~ Rated Frequency 50Hz **Cooling Capacity** 3500W **Heating Capacity** 3810W Air Flow Volume 560m³/h Sound Pressure Level(H) 36dB(A) Weight 11.5kg Manufactured Date

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Sinclair Corporation Ltd, 1-4 Argyll St., London, UK

SINCLOIR AIR CONDITIONER OUTDOOR UNIT

AIR CONDITIONING				
Model	ASH-13AISW			
Rated Voltage	220-240V~	220-240V~ (ISO 5151)		
Rated Frequency	50Hz	Cooling Capacity	3500W	
Climate Type	T1	Heating Capacity	3810W	
Weight	38kg	Cooling Power Input	970W	
Isolation	I	Heating Power Input 10		
Refrigerant	R410A	Cooling Rated Input	1500W	
Refri. Charge	1.26kg	Heating Rated Input	1600W	
Comp. LRA	25A	Sound Pressure Level	52dB(A)	
Maximum Allow	3.8MPa			
Operating Pressure (Discharge Side/Suction Side)			2.8/1.2MPa	
Manufactured Date		IP24		

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SINCLOIR AIR CONDITIONER OUTDOOR UNIT

Model	ASH-13AISB		
Rated Voltage	220-240V~ (ISO 5151)		
Rated Frequency	50Hz	Cooling Capacity	3500W
Climate Type	T1	Heating Capacity	3810W
Weight	38kg	Cooling Power Input	970W
Isolation	I	Heating Power Input	1055W
Refrigerant	R410A	Cooling Rated Input	1500W
Refri. Charge	1.26kg	Heating Rated Input	1600W
Comp. LRA	25A Sound Pressure Level		52dB(A)
Maximum Allowable Pressure			3.8MPa
Operating Pressure (Discharge Side/Suction Side)			2.8/1.2MPa
Manufactured Date	Moisture Protection IF		IP24

Contains fluorinated greenhouse gases covered by the Kyoto Protocol

CETUV ISO9001

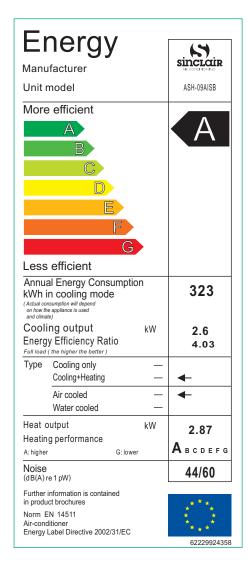
sinclair AIR CONDITIONER OUTDOOR UNIT

Model	ASH-13AISR		
Rated Voltage	220-240V~ (ISO 5151)		
Rated Frequency	50Hz	Cooling Capacity	3500W
Climate Type	T1	Heating Capacity	3810W
Weight	38kg	Cooling Power Input	970W
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Refri. Charge	1.26kg	Heating Rated Input	1600W
Comp. LRA	25A	Sound Pressure Level	52dB(A)
Maximum Allowable Pressure			3.8MPa
Operating Pressu	ıre (Discharg	ge Side/Suction Side)	2.8/1.2MPa
Manufactured Date		Moisture Protection	IP24

Contains fluorinated greenhouse gases covered by the Kyoto Protocol

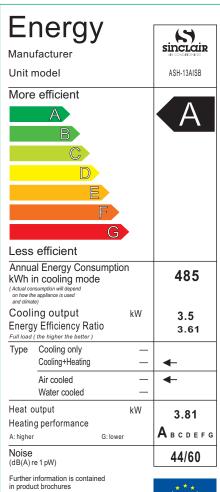
CETÜV Z ISO9001

Sinclair Corporation Ltd, 1-4 Argyll St., London, UK



Εı	nergy		(3)
Manu	ıfacturer		SINCLOIR AR CONDITIONING
Unit	model		ASH-09AISW
More	e efficient		
	A		Δ
	В		
	C		
	D		
	E		
	F		
	G		
Less	efficient		
kWh i	al Energy Consumpti in cooling mode nsumption will depend ee appliance is used	on	323
Cool Energ	ing output y Efficiency Ratio (the higher the better)	kW	2.6 4.03
Туре	Cooling only Cooling+Heating	_	4
	Air cooled Water cooled	_	←
Heat	•	kW	2.87
Heatin A: highe	g performance G: low	er	A B C D E F G
Noise			44/60
Further	information is contained		
Norm E	ict brochures EN 14511 ditioner Label Directive 2002/31/EC		***

Energy	(4
	sinclair
Manufacturer	AR CONDITIONING
Unit model	ASH-09AISR
More efficient	
A	ΚΑ
В	44
F	
G	
Less efficient	
Annual Energy Consumption kWh in cooling mode (Actual consumption will depend on how the appliance is used and climate)	323
Cooling output kW	2.6
Energy Efficiency Ratio	4.03
Type Cooling only — Cooling+Heating —	. 4
Air cooled — Water cooled —	-
Heat output kW	2.87
Heating performance	ABCDEF
A: higher G: lower	
Noise (dB(A) re 1 pW)	44/60
Further information is contained	
in product brochures Norm EN 14511 Air-conditioner Energy Label Directive 2002/31/EC	* * * * * * *



Norm EN 14511

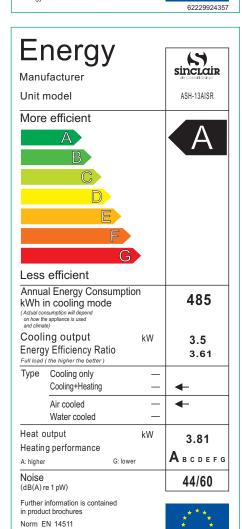
Energy Label Directive 2002/31/EC

Air-conditioner

Energy		(4)
Manufacturer		SINCLAIR AR CONDITIONING
Unit model		ASH-13AISW
More efficient		
A		A
E		
F		
(3	
Less efficient		
Annual Energy Consump kWh in cooling mode (Actual consumption will depend on how the appliance is used and dimate)	otion	485
Cooling output Energy Efficiency Ratio Full load (the higher the better)	kW	3.5 3.61
Type Cooling only Cooling+Heating	_	4
Air cooled Water cooled	_	←
Heat output	kW	3.81
Heating performance A: higher G: li	ower	ABCDEFG
Noise (dB(A) re 1 pW)		44/60
Further information is contained in product brochures Norm EN 14511 Air-conditioner Energy Label Directive 2002/31/E	С	***

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