USER'S MANUAL

CAESAR SERIES

ASH-18AC PT, ASH-24AC PT



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This symbol stands for the items should be forbidden.

This symbol stands for the items should be followed

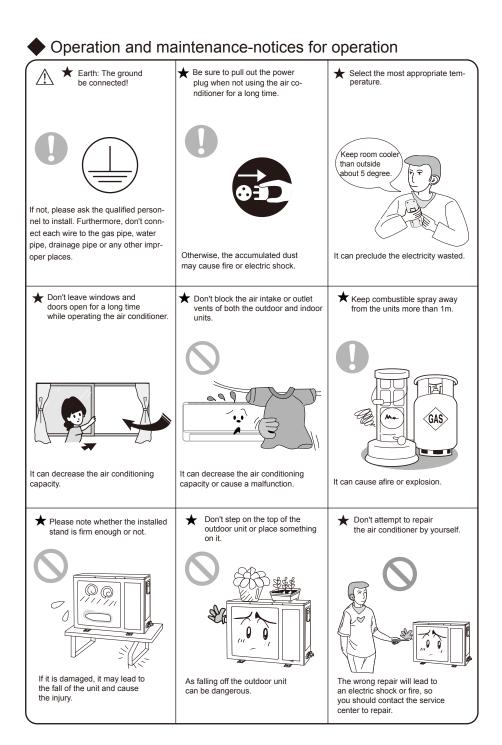
The products in this manual may be different with the real one, according to different models, some models have displayer and some models without displayer, the position and shape of the displayer please refer to the real one.

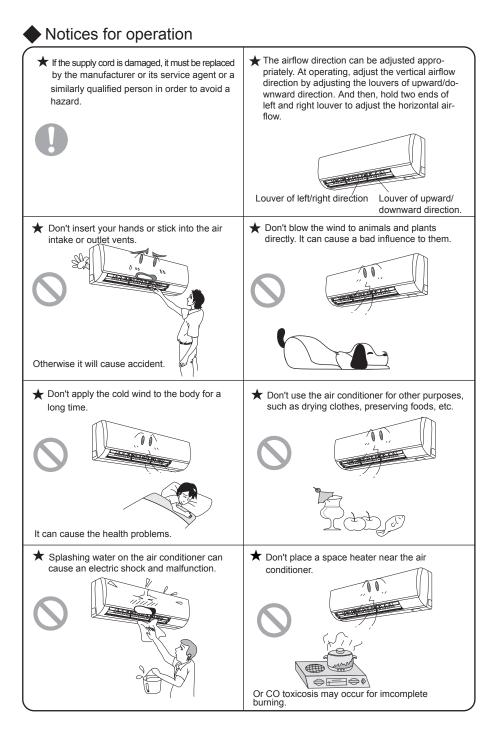
This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

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



Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. R410A:GWP:(R32/125: 50/50): 1900 FUSE:T3.15AL 250V





Notices for use

Working principle and special functions for cooling

Principle:

Air conditioner absorbs heat in the room and transmit to outdoor and discharged, so that indoor ambient temperature decreased, its cooling capacity will increase or decrease by outdoor ambient temperature.

Anti-freezing function:

If the unit is running in COOL mode and in low temperature, there will be frost formed on the heat exchanger, when indoor heat exchanger temperature decreased below $0^{\circ}C$, the indoor unit microcomputer will stop compressor running and protect the unit.

Working principle and special functions for heating

Principle:

- * Air conditioner absorbs heat from outdoor and transmits to indoor, in this way to increase room temperature. This is the heat pump heating principle, its heating capacity will be reduced due to outdoor temperature decrease.
- * If outdoor temperature becomes very low, please operate with other heating equipments.

Defrosting:

- * When outdoor temperature is low but high humidity, after a long while running, frost will form on outdoor unit, that will effect the heating effect, at this time, the auto defrosting function will act, the heat running will stop for 3-12mins.
- * During the auto defrosting, the fan motors of indoor unit and outdoor unit will stop.
- * During the defrosting, the indoor indicator flashes, the outdoor unit may emit vapor. This is due to the defrosting, it isn't malfunction.
- * After defrosting finished, the heating will recover automatically.

Anti-cool wind function:

In "Heat" mode, under the following three kinds of state, if indoor heat exchanger doesn't arrive at certain temp., indoor fan will not act, in order to prevent cool wind blowing(within 2 mins):

1. Heating starts. 2. After Auto Defrost finished. 3. Heating under the low temperature.

Gentle Breeze

In the following situation, the indoor unit may blow gentle breeze, and the guide louver rotate to a certain position:

1. In "Heat" mode, the unit turned on, the compressor doesn't arrive the starting condition.

2. In "Heat" mode, the temperature arrive at the setting value and the compressor stop running about 1min.

Notices for use

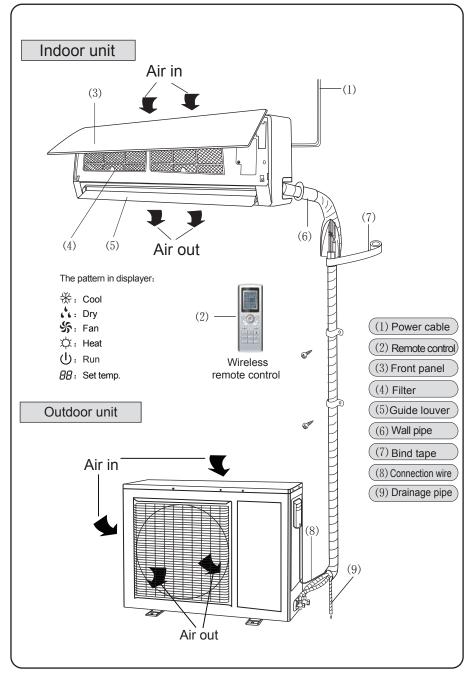
※ Working temperature range				
Indoor sideDB/WB(°C) Outdoor sideDB/WB(
Maximum cooling	32/23	43/26		
Maximum heating 27/- 24/18				

The operating temperature range (outdoor temperature) for cooling only unit is 18 C ~ 43 C; for heat pump unit is -7 C ~ 43 C.

※ Working temperature range					
Indoor sideDB/WB(°C) Outdoor sideDB/WB(°C					
Minimum cooling		18			
Minimum heating -7					

The operating temperature range (outdoor temperature) for cooling only unit is $21\degree$ ~ $52\degree$; for heat pump unit is -7 ° ~ $52\degree$.

Names and functions of each part





1 ON/OFF

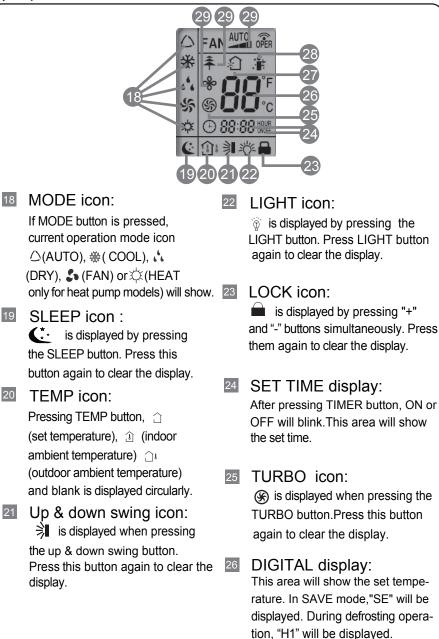
Press it to start or stop operation.

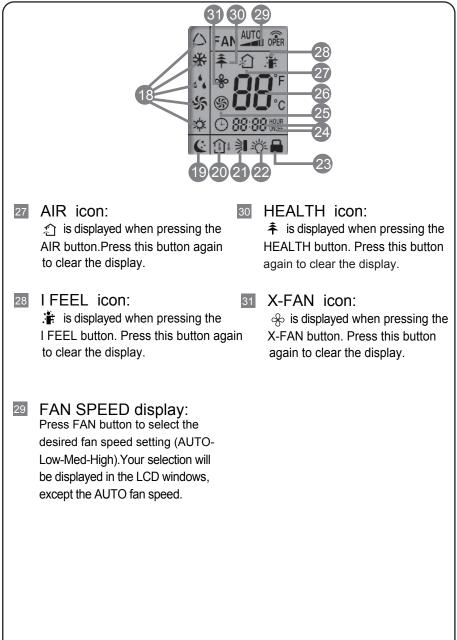
- 2 : Press it to decrease temperature setting.
- + : Press it to increase temperature setting.
- FAN Press it to set fan speed.
- 5 MODE Press it to select operation mode (AUTO/COOL/DRY/FAN/HEAT).
- 6 | FEEL(Page 10)

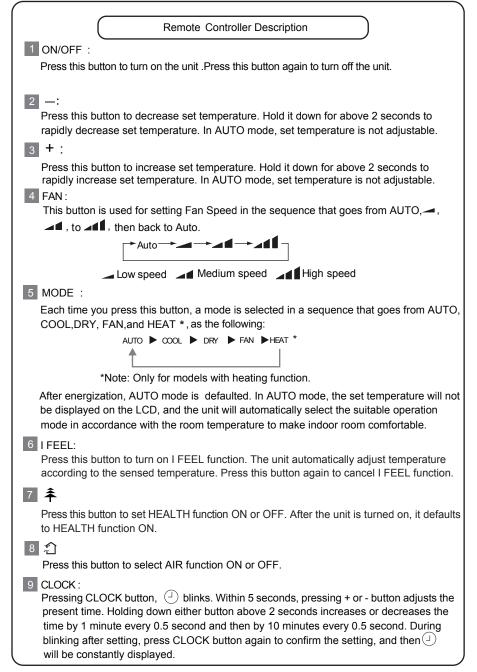
7 着

Press it to set HEALTH function

- 8 纪 Press it to set AIR function.
- 9 CLOCK Press it set clock.
- 10 TIMER ON Press it to set auto-on timer.
- 11 考 Press it set swing angle.
- 12 X-FAN (page 11)
- 13 TEMP(page 11)
- 14 TIMER OFF Press it to set auto-off timer
- 15 TURBO(page 11)
- 16 SLEEP(page 12)
- 17 LIGHT Press it to turn on/off the light.







10 TIMER ON :

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

After pressing this button, \bigcirc 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.

11 刹:

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

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

indicates the guide louver swings as:

12 X-FAN:

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

13 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 "(), 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.

14 TIMER OFF :

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

15 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. (This function is not applicable for some models).

16 SLEEP:

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

17 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, $\tilde{\varphi}$ is displayed. If the light is tunned off, $\tilde{\varphi}$ disappears.

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

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

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

At unit OFF, press "MODE" and "–" buttons simultaneously to switch between $\,{}^\circ\!\mathrm{C}$ and $\,{}^\circ\!\mathrm{F}$.

Replacement of Batteries

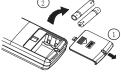
1.Remove the battery cover plate from the rear of the remote controller.

(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.





Sketch map for replacing batteries

Emergency operation

Displayer indicator light control of indoor unit

It's a special selective button for the users ,who are not accustomed to the light at sleeping.

- Get the displayer indicator light on: When setting the light function, the mark ^(*)/_(*) will display on the remote controller screen by pressing this button. In which case, the dissplayer indicator light will be on if the AC receives this signal.
- Get the displayer indicator light off: If cancel the light function, the mark ⁽²⁾ will disapper on the remote controller screen by pressing this button. In which case, the displayer indicator light will be off if the AC receives this signal.

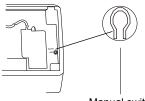
Emergency operation

If the wireless remote control is lost or broken, please use the manual switch button. At this time, the unit will run at the Auto mode, but the temperature and fan speed cannot be changed. The operation was shown as below:

panel, the manual switch

To open the panel, the manual switch is on the displayer box.

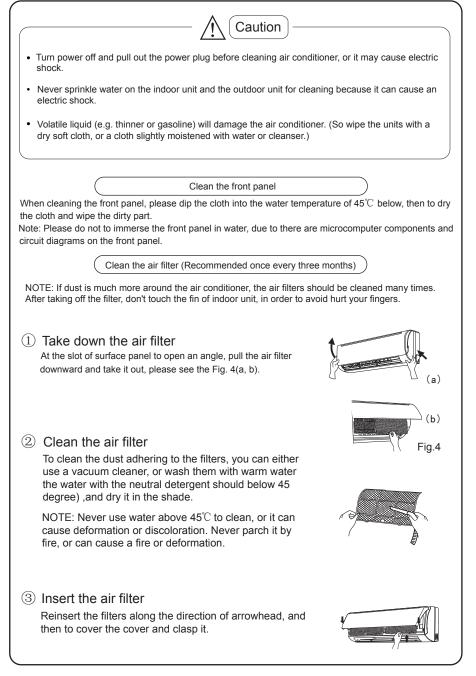
- Turn on the unit: At unit turned off, press the button, the unit will run at Auto mode immediately. The microcomputer will accord to the indoor temperature to select (Cooling, Heating, Fan) and obtain the comfortable effect.
- Turn off the unit: At unit turned on, press the button, the unit will stop working.



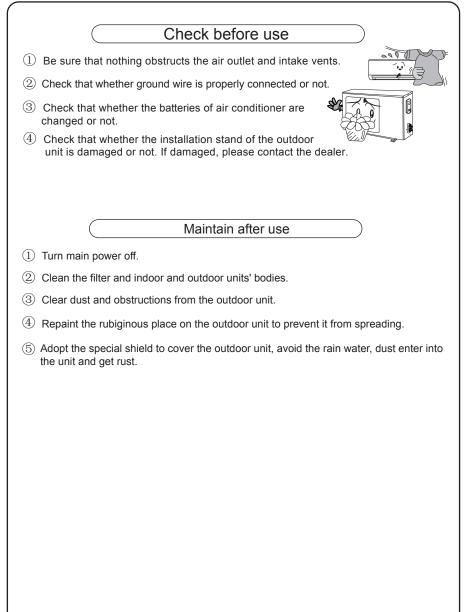
Manual switch

Fig.3

Clean and care



Clean and care



Troubleshooting

/	
	Don't attempt to repair the air conditioner by yourself, it can cause an electric shock or fire. Please check the following items before asking for repair, it can save your time and money.

Phenomenon	Troubleshooting		
Not operate immediately when the air conditioner is restarted.	 Once the air conditioner is stopped, it will not operate in approximately 3 minutes to protect itself. 		
There's unusual smell blowing from the outlet after operation is started.	 The unit has no peculiar smell by itself. If has, that is due to the smell accumulated in the ambient. 		
	 Solution method: Cleaning the filter. If problem still has, so need to clean air conditioner. (Please contact with the authorized maintenance center.) 		
Sound of water flow can be heard during the operation.	 The air conditioner is started, when it is running the compressor started or stopped running, or the unit is stopped, sometimes there is swoosh or gurgle, the sound is due to refrigerant flowing they are not malfuncti- ons. 		
In COOL mode, sometimes the mist emitted from the air outlet vent.	• When the indoor temperature and humidity are very high, this phenomenon would happen. This is caused by the room air is swiftly cooled down. After running for a while, indoor temperature and humidity will fall down, the mist will die away.		
Creaking noise can be heard when start or stop the unit.	 This is caused by the deformation of plastic due to the changes of temperature. 		

Troubleshooting

Phenomenon	Troubleshooting
The unit can not run.	 Has the power been shut down? Is power plug loosed? Is the circuit protection device tripped off or not? Is voltage higher or lower? (Tested by professionals) Is the TIMER correctly used?
Cooling(Heating) efficiency is not good.	 Is Temp. setting suitable? Were inlet and outlet vents obstructed? Is filter dirty? Are the windows and doors clothed? Did Fan speed set at low speed? Is there any heat sources in the room?
Wireless remote control is not available.	 The unit is interfered by abnormal or frequent functions switchover occasionally the controller cannot operate. At this time, you need to pull out of the plug, and reinsert it. Is it in its receiving range? Or obstructed? To check the voltage in wireless remote control inside is charged, otherwise to replace the batteries. Whether the wireless remote control is damaged.
If water leakage in the room.	 The air humidity is on the high side. Condensing water over flowed. The connection position of indoor unit drainage pipe is loosed.
If water leakage in outdoor unit.	 When the unit is running in COOL mode, the pipe and connection of pipe would be condensed due to the water cooled down. When the unit is running in Auto Defrosting mode the ice thawed and flowed out. When the unit is running in HEAT mode, the water adhered on heat exchanger dripped off.
Noise from indoor unit emitted.	 The sound of fan or compressor relay is switching on or off. When the defrosting is started or stop running, it will sound. That is due to the refrigerant flowed to the reverse direction.

Troubleshooting

Phenomenon	Troubleshooting
Indoor unit cannot deliver air.	 In HEAT mode, when the temperature of indoor heat exchanger is very low, that will stop deliver air in order to prevent cool air. (Within 2min)
	 In HEAT mode, when the outdoor temperature is low or high humidity, there are much frost be formed on the outdoor heat exchanger, that the unit will automatically defrost, indoor unit stop blowing air for 3-12min. During the defrosting, there is water flowing out or vapor be produced.
	 In dehumidifying mode, sometimes indoor fan will stop, in order to avoid condensing water be vapo- rized again, restrain temperature rising.
Moisture on air outlet vent	 If unit is running under the high humidity for a long time, the moisture will be condensed on the air outlet grill and drip off.
H1 _. Defrosting	● It is normal.



Immediately stop all operations and plug out, contact the dealer in following situations.

There is harsh sound during operation.

The terrible odors emitted during operation.

Water is leaking in the room.

Air switch or protection switch often breaks.

Carelessy splash water or something into unit.

There is an abnormal heat in power supply cord and power plug.

Stop running and pull out of the plug.

Notices for installation

Important Notices 1. The unit installation work must be done by gualified personnel according to the local rules and this manual. 2. Before installation, please contact with local authorized maintenance center, if unit is not installed by the authorized maintenance center, the malfunction may not solved, due to discommodious contacts. 3. When removing the unit to the other place, please firstly contact with the authorized Maintenance Center in the local area. 4. The appliance must be positioned so that the plug is accessible 5. After pull out the power plug then make the appliance operation again, to avoid the icing of outdoor unit damage axial flow fan, should electrify the appliance but not operation for 4 hours for warm-up purpose. **Basic Requirements For Installation Position** Install in the following place may cause malfunction. If it is unavoidable contact with service center please: • Place where strong heat sources, vapors, flammable gas or volatile object are emitted. Place where high-frequency waves are generated by radio equipment, welders and medical equipment. · Place where a lot of salinities such as coast exists. Place where the oil (machine oil) is contained in the air. • Place where a sulfured gas such as the hot spring zones is generated. Other place with special circumstance. Indoor Unit Installation Position Selection 1. The air inlet and outlet vent should be far from the obstruction, make sure that the air can be blown through the whole room. 2. Select a position where the condensing water can be easily drained out, and the place is easily connected for outdoor unit. 3. Select a location where the children can not reach. 4. Can select the place where is strong enough to withstand the full weight and vibration of the unit. And will not increase the noise. 5. Be sure to leave enough space to allow access for routine maintenance. The height of the installed location should be 250cm or more from the floor. 6. Select a place about 1m or more away from TVset or any other electric appliances. 7. Select a place where the filter can be easily taken out. 8. Make sure that the indoor unit installation should accord with installation dimension diagram requirements. 9. Do not use the unit in the immediate surroundings of a laundry a bath a shower or a swimming pool. Outdoor Unit Installation Position Selection 1. Select a location from which noise and outflow air emitted by unit will not inconvenience neighbors, animals, plants. 2. Select a location where there should be sufficient ventilation. 3. Select a location where there should be no obstructions cover the inlet and outlet vent. 4. The location should be able to withstand the full weight and vibration of the outdoor unit and permit safe installation. 5. Select a dry place, but do not expose under the direct sunlight or strong wind. 6. Make sure that the outdoor unit installation dimension should accord with installation dimension diagram, convenient for maintenance, repair.

- The height difference of connecting the tubing within 5m, the length of connecting the tubing within 10m.
- 8. Select a place where it is out of reach for the children.
- 9. Select a place where will not block the passage and do not influence the city appearance.

Notices for installation

Safety Requirements For Electric Appliances

- 1. The power supply should be used the rated voltage and AC exclusive circuit, the power cable diameter should be satisfied.
- 2. Don't drag the power cable emphatically.
- It should be reliably earthed, and it should be connected to the special earth device, the installation work should be operated by the professional. The air switch must have the functions of magnetic tripping and heat tripping, in order

to protect the short circuit and overloading.

- 4. The min. distance from the unit and combustive surface is 1.5m.
- 5. The appliance shall be installed in accordance with national wiring regulations.
- 6. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

Models	Air switch capacity
18K√ 24K	25A

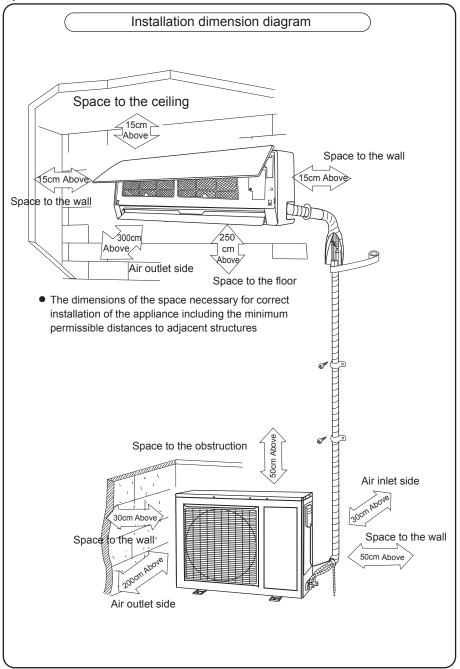
Note:

- Make sure that the Live wire or Zero line as well as the earth wire in the family power socket can not be wrong connected, there should be reliable and no short circuit in the diagram.
- wrong connection may cause fire.

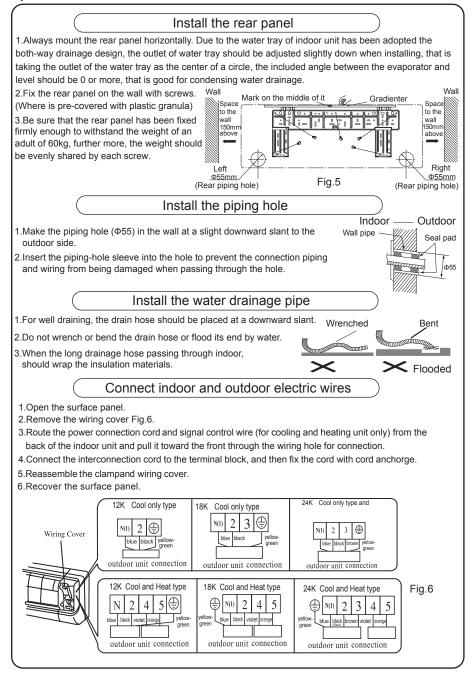
Earthing requirements

- 1. Air conditioner is type I electric appliance, thus please do conduct reliable earthing measure.
- The yellow-green two-color wire in air conditioner is earthing wire and cannot be used for other propose. It cannot be cut off and be fix it by screw, otherwise it would cause electric shock.
- 3. The earth resistance should accord to the National Criterion.
- 4. The user power must offer the reliable earthing terminal. Please don't connect the earthing wire with the following place:
 - 1) Tap water pipe. 2) Gas pipe. 3) Contamination pipe.
 - $(\underline{4})$ Other places that professional personnel consider them unreliable.
- 5. The model and rating values for fuses according the silk print on fuse cover or related PCB board.

Installation dimension diagram



Install indoor unit

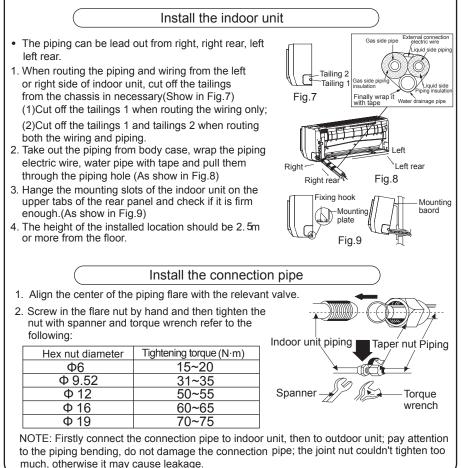


Install indoor unit

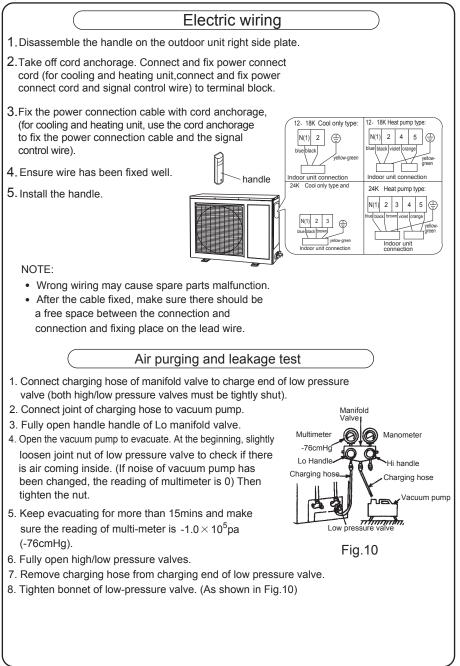
NOTE:

When connecting the electric wire if the wire length is not enough, please contact with the authorized service shop to buy a exclusive electric wire that is long enough and the joint on the wire are not allowed.

- The electric wiring must be correctly connected, wrong connection may cause spare parts malfunction.
- Tighten the terminal screw in order to prevent loose.
- After tighten the screw, slight pull the wire and confirm whether is it firm or not.
- If the earth wire is wrong connection, that may cause electric shock.
- The cover plate must be fixed, and tighten the connection wire, if it is poor installed, that the dust, moisture may enter in or the connection terminal will be affected by outside force, and will cause fire or electric shock.



Install outdoor unit

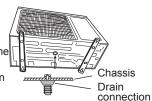


Install outdoor unit

Condensate drainage of outdoor unit (no for cooling only)

The condensate and defrosting water formd during heating in the outdoor unit can be properly discharged by drainage pipe .

Installation method:set the drain connection inØ 25 hole of the chassis has been installed and then connect drainage pipe with drain nozzle, so that condensate and defrosting waer can be properly discharged



Check after installation and test operation

Check after installation

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

Test Operation

- 1. Before test operation
 - (1) Do not switch on power before installation isfinished 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.

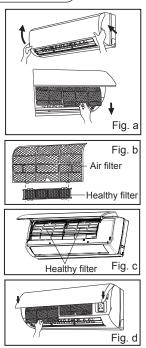
2. Test operation method

- (1) Switch on power, press "ON/OFF" button on the wireless remote control to start the operation.
- (2) Press MODE button, to select the COOL, HEAT (Cooling only unit is not available), FAN to check whether the operation is normal or not.

Installation and Maintenance of Healthy Filter

Installation Instructions

- 1. Forcibly pull the panel for a specific angle from the two ends of the front panel according to the arrow direction. Then pull the air filter downwards to remove it. (See Fig.a)
- Mount the healthy filter onto the air filter,(as shown in Fig.b). If the air filter cannot be installed, please mount the healthy filter on the front case. (as shown in Fig.c)
- 3. Mount the air filter properly along the arrow direction in Fig.d, and then close the panel cover.



Cleaning and Maintenance

Take out the healthy filter before cleaning and reinstall it after cleaning according to the installation instruction. Pay special attention to that silver ion filter can't be cleaned with water, while active carbon, photocatalyst, low temperature conversion (LTC) catalyst, formaldehyde eliminator, catechin or mite killing filter can, but can't with brush or hard things. Dry it in the shade or sun after cleaning, but not by wiping.

Service Life

The healthy filter commonly has its usage lifetime for one year under normal condition. As for silver ion filter, it is invalid when its surface becomes black (green).

• This supplementary instruction is provided for reference to the unit with healthy filter. If the graphics provided herein is different from the physical goods, the latter one shall prevail. The quantity of healthy filters shall be based on the actual delivery.

Configuration of connection pipe and additional volume of refrigerant

- Standard length of connection pipe 5m、7.5m、8m
- Min length of connection pipe
 For the unit with standard connection pipe of 5m, there is no limitation for the min length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min length of connection pipe is 3m.
- 3. Max length of connection pipe

Sheet 1 Max length of connection pipe Unit: m

Capacity	Max length of connection pipe	Capacity		Max length of connection pipe
5000 Btu/h (1465 W)	15		24000 Btu/h (7032 W)	25
7000 Btu/h (2051 W)	15		28000 Btu/h (8204 W)	30
9000 Btu/h (2637 W)	15		36000 Btu/h (10548 W)	30
12000 Btu/h (3516 W)	20		42000 Btu/h (12306 W)	30
18000 Btu/h (5274 W)	25		48000 Btu/h (14064 W)	30

4. The calculation method of additional refrigerant oil and refrigerant charging amount after prolonging connection pipe

After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.

The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

- (1) Additional refrigerant charging amount= prolonged length of liquid pipe × additional refrigerant charging amount per meter
- (2) When the length of connection pipe is above 5m, add refrigerant according to the prolonged length of liquid pipe. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See Sheet 2.

Configuration of connection pipe and additional volume of refrigerant

Sheet 2. Additional refrigerant charging amount for R22, R407C, R410A and R134a

Diameter of connection pipe mm		Indoor unit throttle	t throttle Outdoor unit t	
Liquid pipe	Gas pipe	Cooling only,	Cooling only	Cooling and
		cooling and heating	(g / m)	heating (g /
		(g / m)		m)
Ф6	Φ9.5 or Φ12	20	15	20
Φ6 or Φ9.5	Ф16 or Ф19	50	15	50
Ф12	Ф19 or Ф22.2	100	30	120
Ф16	Ф25.4 or Ф31.8	170	60	120
Ф19	-	250	250	250
Φ22.2	-	350	350	350

Note: The additional refrigerant charging amount in Sheet 2 is recommended value, not compulsory.

SERIES			CAESAR				
MODEL			ASH-09AC PT	ASH-13AC PT	ASH-18AC PT	ASH-24AC PT	ASH-28AC
Capacity	cooling	kW	2,6	3,5	5,3	6,6	8,0
Capacity	heating	kW	2,8	4,0	5,7	7,3	8,8
Power supply	ŀ	łz	50	50	50	50	50
Power supply	,	V	220-240	220-240	220-240	220-240	220-240
Power current	cooling	A	3,6	4,8	7,3	9,1	16,1
Power current	heating	A	3,4	4,9	7,4	9,4	15,2
Dower input	cooling	W	809	1075	1640	2056	3700
Power input	heating	W	775	1065	1670	2126	3500
EER	W	/W	3,21	3,26	3,21	3,21	2,81
СОР	W	/W	3,61	3,64	3,41	3,41	3,38
Noise-indoor unit	dB	(A)	40/37/35/32	41/38/36/33	48/45/42/38	46/43/40/35	49/47/45
Noise-outdoor unit	max	dB(A)	50	51	56	57	58
Air flow	m	³/h	500	530	780	900	1200
Dehumidifying volume	l,	/h	0,8	1,2	3,0	2,4	3,0
Refrigerant type / charge	type / kg		R410a	R410a	R410a	R410a	R410a
Dine diameter	Liquid side	inch / mm	1⁄4 / 6	1⁄4 / 6	1⁄4 / 6	1/4 / 6	³⁄₅ / 10
Pipe diameter	gas side	inch / mm	³⁄s / 10	1/2 / 12	½/12	% / 16	%/16
Length of connection pipe	max	m	15	20	25	25	30
Elevation/Drop height	max	m	10	10	10	10	15
	IU	mm	790x265x177	845x275x180	940x200x298	1007x315x219	1178x326x227
Dimension (w x h x d)	OU	mm	848x540x355	848x540x320	913x378x680	955x700x396	1006x840x412
Notwoight	IU	kg	9	10	13	15,5	17,5
Net weight	OU	kg	26	40	46	57	72
Operating tomporature range	cooling	°C	18~43	18~43	18~43	18~43	21 ~ 43
Operating temperature range	heating	°C	-7 ~ 24	-7 ~ 24	-7 ~ 24	-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.

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	

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

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 2 2:1007, PN EN 61000 2 2:2004, PN EN 61000 6 2:2004

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

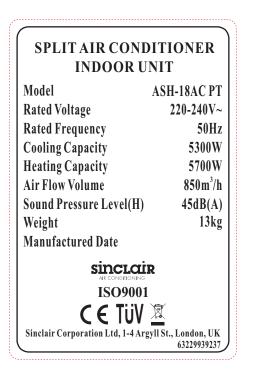
The last two digits of the year when the mark CE was appointed on the product: 10

MEPA spol. s r. o. 21 Purkytut 5, 612 00 Brno

In Brno, date: 22.3.2012

Name, function, signature of authorized person of manufacturer or Fax 541 590 124

name, function, signature of authorized deputy



Model	ASH-18AC PT		
Rated Voltage	220-240V~	(ISO 5151)	
Rated Frequency	50Hz	Cooling Capacity	5300W
Climate Type	T1	Heating Capacity	5700W
Weight	46kg	Cooling Power Input	1640W
Isolation	I	Heating Power Input	1670W
Refrigerant	R410A	Cooling Rated Input	2500W
Refri. Charge	1.5kg	Heating Rated Input	2550W
Comp. LRA	40A	Sound Pressure Level	56dB(A)
Maximum Allowable Pressure			5.4MPa
Operating Pressure (Discharge Side/Suction Side)			3.8/1.2MPa
Manufactured Date		Moisture Protection	IP24
Contains fluorinated greenhouse gases covered by the Kyoto Protoco			
Sinclair Corporation Ltd, 1-4 Argyll St., London, UK 63229939238			

SPLIT AIR CONE		
INDOOR UNIT		
Model	ASH-24AC PT	
Rated Voltage	220-240V~	
Rated Frequency	50Hz	
Cooling Capacity	6600W	
Heating Capacity	7250W	
Air Flow Volume	900m ³ /h	
Sound Pressure Level(H)	43dB(A)	
Weight	15.5kg	
Manufactured Date		
sinclai	R	
C € TüV	X	
Sinclair Corporation Ltd, 1-4 Arg		
. / .	63229939239	

Model	ASH-24AC PT			
Rated Voltage	220-240V~	(ISO 5151)		
Rated Frequency	50Hz	Cooling Capacity	6600W	
Climate Type	T1	Heating Capacity	7250W	
Weight	57kg	Cooling Power Input	2056W	
Isolation	I	Heating Power Input	2126W	
Refrigerant	R410A	Cooling Rated Input	2500W	
Refri. Charge	1.7kg	Heating Rated Input	2650W	
Comp. LRA	49.5A	Sound Pressure Level	57dB(A)	
Maximum Allow	m Allowable Pressure			
Operating Pressure (Discharge Side/Suction Side) 3.8/1.			3.8/1.2MPa	
Manufactured Date Moisture Protection			IP24	
Contains fluorinated greenhouse gases covered by the Kyoto Protoco				
Sinclair Corporation Ltd, 1-4 Argyll St., London, UK 6322993924				

с.	oorav		
	nergy		aire an aria
Manu	ıfacturer		
Unit ı	model		ASH-09AC PT
More	e efficient		
	A		ΚΑΙ
	B		
	C		
	D		
	E		
	F		
	G		
Less	efficient		
kWh i	al Energy Consumption n cooling mode nsumption will depend e appliance is used to	١	405
	ng output	kW	2.60
	y Efficiency Ratio (the higher the better)		3.21
Туре	Cooling only Cooling+Heating	_	•
	Air cooled Water cooled	_	←
Heat of	output	kW	2.80
	g performance		ABCDEFG
A: higher	G: lower		N BCDEFG
(dB(A))	re 1 pW)		
	information is contained to brochures		***
Air-cond	EN 14511 Jitioner Label Directive 2002/31/EC		* *
57			62229925893

Enorav	
Energy	
Manufacturer	
Unit model	ASH-18AC PT
More efficient	
A	ΚA
В	
С	
D	
E	
F	
G	
Less efficient	
Annual Energy Consumption kWh in cooling mode (Actual consumption will depend on how the appliance is used and climate	820
Cooling output kV Energy Efficiency Ratio	5.50
Full load (the higher the better)	3.23
Type Cooling only Cooling+Heating	- - ←
Air cooled Water cooled	
Heat output kV	5.70
Heating performance	Abcdefg
A: higher G: lower	T B C D E F G
Noise (dB(A) re 1 pW)	
Further information is contained in product brochures Norm EN 14511 Air-conditioner Energy Label Directive 2002/31/EC	* * * * * * 62229925895

Energy Manufacturer		
Unit model	ASI	I-13AC PT
More efficient		A
В		
С		
	G	
Less efficient		
Annual Energy Consun kWh in cooling mode (Actual consumption will depend on how the appliance is used and dimate)	nption	538
Cooling output Energy Efficiency Ratio Full load (the higher the better)		3.50 3.26
Type Cooling only Cooling+Heating		
Air cooled Water cooled		
Heat output	kW	3.85
Heating performance	: lower Ав	CDEFG
Noise (dB(A) re 1 pW)		
Further information is contained in product brochures		**.
Norm EN 14511 Air-conditioner Energy Label Directive 2002/31		* * * 52229925894

Enoray	
Energy	ain ar ain
Manufacturer	AIR CONDITIONING
Unit model	ASH-24AC PT
More efficient	
A	K A I
В	
C	
D	
Ε	
F	
G	
Less efficient	
Annual Energy Consumption kWh in cooling mode (Actual consumption will depend on how the appliance is used and dimade)	1028
Cooling output kW Energy Efficiency Ratio	6.60 3.21
Type Cooling only — Cooling+Heating —	•
Air cooled — Water cooled —	•
Heat output kW	7.25
Heating performance A: higher G: lower	Abcdefg
Noise (dB(A) re 1 pW)	
Further information is contained in product brochures Norm EN 14511 Air-conditioner Energy Label Directive 2002/31/EC	* * * * * 62229925896