deitsu

OPERATING MANUAL

AKD-9AFDN AKD-12AFDN



Thank you for purchasing our Room Air Conditioner.

invertea

Before using your air-conditioner, please read this operating instruction carefully and keep it for future reference. If you have lost the Owner's Manual, please contact the local agent or visit sat.eurofredgroup.com for electronic version.

Precautions

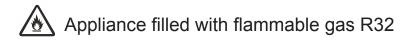
Operation and Maintenance

- •This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory ormental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- •Children shall not play with the appliance.
- •Cleaning and user maintenance shall not be made by children without supervision.
- •Do not connect air conditioner to multi-purpose socket. Otherwise, it may cause fire hazard.
- •Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- •If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- •Do not wash the air conditioner with water to avoid electric shock.
- •Do not spray water on indoor unit. It may cause electric shock or malfunction.
- After removing the filter, do not touch fins to avoid injury.
- •Do not use fire or hair dryer to dry the filter to avoid deformation or fire hazard.

Precautions

WARNING

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



Safety operation of flammable refrigerant

• Qualification requirement for installation and maintenance man

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

Installation notes

- 1. The air conditioner is not allowed to use in a room that has running fire (such as fire source, working coal gas ware, operating heater).
- 2. The air conditioner must be installed in a room that is larger than the minimum room area.

The minimum room area is shown on the nameplate or following table.

3. Leak test is a must after installation.

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

table- Minimum room area (m²)

Maintenance notes

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

• Welding

- 1. If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below
 - a. Shut down the unit and cut power supply
 - b. eliminate the refrigerant
 - c. vacuuming
 - d. clean it with N2 gas
 - e. cutting or welding
 - f. carry back to the service spot for welding
- 2. The refrigerant should be recycled into the specialized storage tank.
- 3. Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.

• Filling the refrigerant

- 1. Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.
- 2. The refrigerant tank should be kept upright at the time of filling refrigerant.
- 3. Stick the label on the system after filling is finished (or haven't finished)
- 4. Don't overfilling.
- 5. After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's removed.

• Safety instructions for transportation and storage

- 1. Please use the flammable gas detector to check before unload and open the container.
- 2. No fire source and smoking.
- 3. According to the local rules and laws.

Function

Introduction



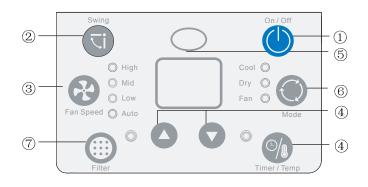
Window type room air conditioners can regulate the room temperature and dry the room. It is convenient for your work,study and life. It can be widely used in residence, shop, hotel, office, library and laboratory, and so on.

Cooling in summer	Dehumidifying in rainy or humid season
In hot summer, Air conditioner can cool down the room air by transferring heat out.	Without reducing the room temp., air conditioner can dehumidify and make the room air dry and comfortable.
Heating in winter	Exchange fresh air
In cold winter, air conditioner can discharge the cold air from the room and the room will be heated. only when your units have the HEATING function.	Open storm door to keep the fresh air in the room.

Remote control panel

Note:

If wireless remote controller is lost, open the control panel and operate manually.



- 1 ON/ OFF OPERATION BUTTON This button turns the air conditioner ON and OFF.
- 2 SWING BUTTON Press this button to activate the supply air flap to various position or auto swing.
- 3 FAN SPEED BUTTON Press the button to select the Low, Middle and Hight Fan Speed.
- 4 TEMP/TIMER BUTTON

Press the ▲ keypad to increase the set (operating) temprature of the unit and Press the ▼ keypad to decrease the set(operating) temperature of the unit. The temperature seting range is from 16~30 °C. Press the▲ keypad also to increase the selected time in 1 hour increments, and Press the ▼ keypad to decrease the selected time in 1 hour decrements, the time seting range is from 0~24 hours.

5 SIGNAL RECEIVER

6 MODE BUTTON

Select the operation mode, AUTO, HEAT, COOL, FAN, DRY (for reverse cycle model) or AUTO, COOL, FAN, DRY (for cooling only model).

7 FILTER BUTTON

This feature is a reminder to clean the Air Filter (See Care and Cleaning) for more efficient operation and cooling. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the "Check Filter" button and the light will go off.

Operating Condition

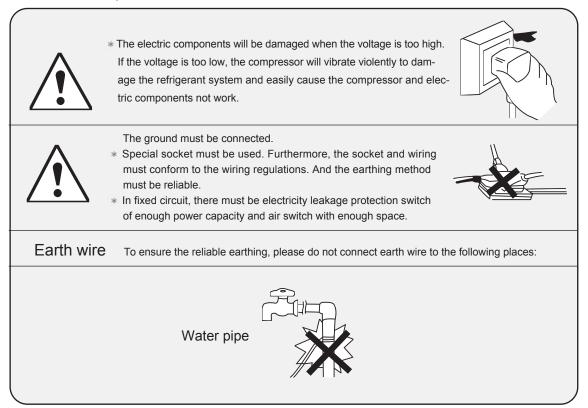
· Please operate air conditioner in the correct conditions as following.

COOL mode operation

Outdoor temperature should be in range of 18 °C to 43°C, otherwise it is possible for air conditioner to breakdown.

Room humidity should be lower than 90% . Otherwise, it is possible for air conditioner to dew at air conditioner surface and even drop water after running for so much time. But this maybe normal.

Power requirement



Installation

Installation precaution:

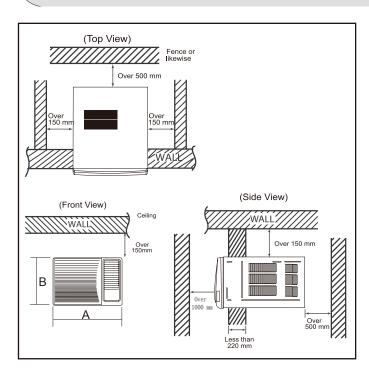
Window type conditioner is so valuable and the improper installation of it will cause a lot of damage! Please associate the professional technician to install the unit and don't install it by yourself. Otherwise, we are not responsible for the damage like this.

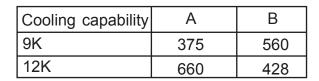
Location:

- The condensation water must be drained away conveniently.
- Install air conditioner unit far away from TV set or radio etc. to avoid disturbing video or voice.
- In salt and coastal area or place where is near thermal springs and polluted by sulphurous gas, or other special areas, please contact the seller before use.
- · Avoid a place where is possible for inflammable gas to leak out.
- The minimum clearance from the appliance to combustible surface is 50 mm.

How to install:

- Choose a location where there are no any obstacle surrounding the unit.
- Prepare the installation hole slightly bigger than unit size.
- Choose the installation space according to the following diagram.



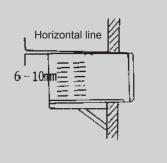


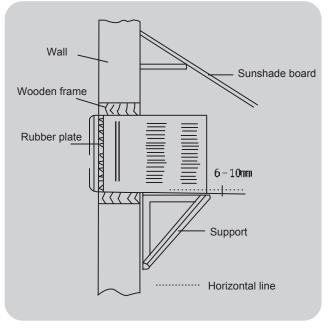
The distance of obstructions from window unit inside should be upper 300mm, lower 1500mm, left 500mm, right 500mm, front 1500mm.

- Avoid other heat sources or direct sun light.
- Avoid a place where is easy for children to touch.
- For window type air conditioner with remote control, install in a location where is strong electromagnetic disturbance, you should contact the seller in advance to avoid the malfunction in use.

Installation procedure:

- 1) Remove the sticker from the front panel.
- 2) Put the unit into the installation hole.
 - When installing the unit, it should be slanted down to the back to avoid the enlargement of noise or vibration. (Slant between 6-10mm.) (Shown at right figure.)
 - The installation place should be strong enough to avoid the enlargement of noise or vibration.
- 3) Fill up sews in the cabinet with sponge or foam.





Installation assistance:

 Use iron support The installation hole should be strong enough to support the air conditioner. If it cannot, iron support has to be used outdoors.

. Iron support should be fixed on the building (Shown at right figure.)

Use sunshade board

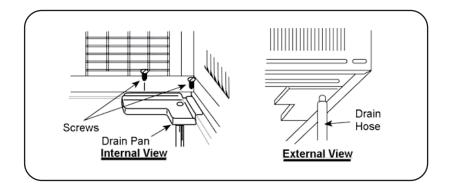
Air conditioner should avoid anything to be dropped into it and avoid direct sunshine. If there is no cover on it, you should contact the seller for installing the sunshade board. When installing the sunshade board, don't let it block the air inlet at the side grille.

Drain water:

To get the maximum cooling efficiency, the air conditioner is designed to splash the condensation water on the condenser coil.

If the splashing sound annoys you, you can provide an outside drain by using the following procedure, which may however cause a small loss of performance.

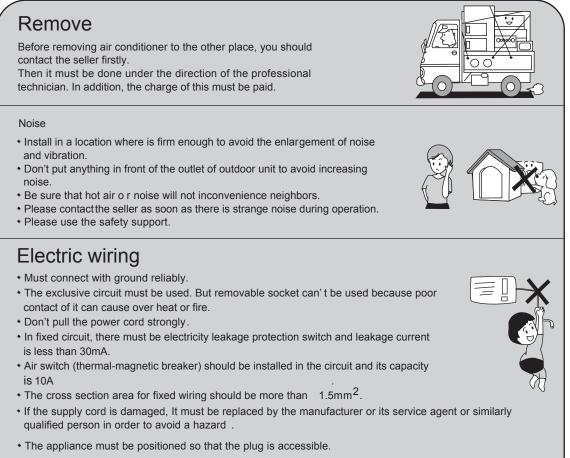
- 1. Slide out the chassis from the cabinet.
- 2. Remove the rubber plug from the body base plate.
- 3. Install the drain pan to the corner of the cabinet with 2 screws.
- 4. Connect the drain hose to the outlet on the drain pan bottom.
- 5. Slide the chassis into its original place in the cabinet.



Note:

• Drain hose or tubing can be purchased locally to satisfy your particular needs.

Notes for installation



• The appliance should be installed in accordance with national wiring regulations.

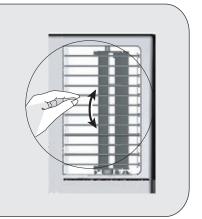
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Air direction adjustment

Vertical airflow direction vane

(Airflow direction adjustment up and down).

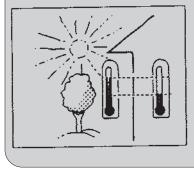
The vertical airflow direction vane is controlled by positioning the vane to discharge the air upwards, downwards or straight out.

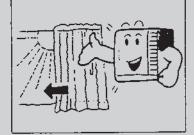


Operation Tips

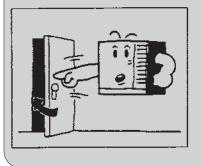
Operation for comfort and economy

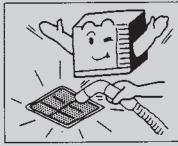
Do not overcool the room temperature . This is not good for health and wastes electricity. Keep blind or curtains closed. Do not let sunshine enter the room directly when the air condition is in operation. Keep the room temp. uniform . Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room. Air can't be discharged to the direction of air-in.

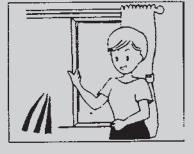




Make sure that the doors and windows are tightly closed. Avoid opening doors and windows as much as possible to keep air conditioning in the room. Clean the air filter regularly . Blockages in the air filter reduce dehumidifying effects. Clean the air filter at least once every two weeks. Ventilate the room occasionally. Since windows are kept closed, it is a good idea to open them and ventilate the room now and then. When starting the unit, curtains or windows should be closed to prevent the heat/cool leakage.







Caution

- * Do not pull out the power cord.
- Damage to the cord may result in serious electric shocks.
- * Do not use the air conditioner for other purposes except for cooling the room.
- Do not use the air conditioner for other purposes such as drying clothes, preserving foods, or cultivating vegetables.
 - /

- Do not block the air intake and outlet vents
- This causes lowered performance and irregular operation.
- Do not insert sticks or other objects into these vents as it is dangerous to touch the electric components and the fan.



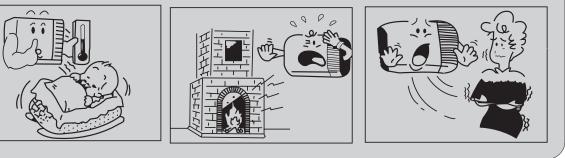
Select the most appropriate temperature.

Pay attention to adjust the temperature to suit the conditions. Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.

Do not use heating apparatuses in the vicinity. The air conditioner 's plastic parts will melt if exposed to excessive heat.

Avoid exposing the body directly to a continuous unidirectional air flow for long periods.

This is not recommended for health reason.



Always wait at least 3 minutes before switching the air conditioner on again after you have switched it off during cooling . The appliance should not be used by children without supervision.



Care and maintenance

Always turn off the air conditioner and main power supply before cleaning to ensure safety.

Cleaning unit



Air filter

The air filter behind the intake grille should be washed at least once every two weeks or as often as it needs cleaning.

How to clean the air filter:

1. To remove the air intake grille, grasp the tab on the filter and



2. Vacuum the filter on the dusty side to remove light dust.



Vacuum cleaner

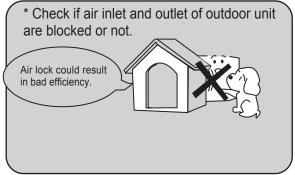
3. Wash the filter, cleaner side up under gently flowing water to wash out accumulated dust and lint.



4. If the filter is very dirty, use a mild household detergent in the wash water.



Let the filter dry thoroughly before reinstalling it. If. necessary, please ask the professional personnel to clean it.



Trouble shooting guide

Please check the following items before asking for repair, it saves your time and money.

Fault phenomenon	Trouble-shooting					
Air conditioner does not operate at all.	* Is there a power failure? * Is the plug out? * Is power fuse or switch off ?					
Cool efficiency is not good.	 * Is air inlet or outlet locking? * Is there any other heat source in room? * Are air filters dirty very much? * Is indoor fan speed set at LOW? * Maybe the room is too hot when the unit is started, please cool down the room after a period of time. 					
Foggy air flows out.	 * At COOL mode operation, sometimes there is foggy air flowing out of indoor unit, this is because the room humid air has been cooling rapidly. * The unit is normal while the indoor outlet is sending out some odor, because the inlet air may be mixed with the smell of furniture and smoke. 					
The air conditioner opera- tion is noisy.	 * For a noise that sounds like water flowing: This is the sound of freon flowing inside the air conditioner unit. * For a noise that sounds like a shower: This is the sound of the dehumidifying water being processed inside the air conditioner unit. 					
It seems that condensation is leaking from air conditioner.	* Condensation occurs when the airflow from the air conditioner cools the warm room air.					
Air conditioner do ess not operate for about 3 minutes when restart.	 * This is to protect the mechanism. * Wait about three minutes and operation will begin. 					

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

*Operation starts or stops abnormally; *Power fuse or switch often breaks;

- *Carelessly splash water or something into air conditioner;
- *Electrical lines are much hot or lines cover breaks;
- *Other strange situations.

Others

- The connection between AC and power cord or among other elements independently shall be subject to wiring diagram on the unit.
- Model and rated value of fuse shall be subject to screen print on corresponding controller or protective bushing.
- The external static pressure at testing place of AC is 0MPa.