

# **OPERATING INSTRUCTIONS**

Window Type Air Conditioner

## Model: FR-E7A FR-E9A FR-E12A FR-E18A

Thank you for purchasing frostar window type air conditioner. Please read the user manual carefully before installation and well keep user manual for your later reference.

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Structure mechanism and Installation

Thank you for choosing air conditioner. Our design is based on the best efficiency and the lowest noise operation and it can keep the room comfortable. Please read this operating manual carefully before operating the unit and keep it for consultation.

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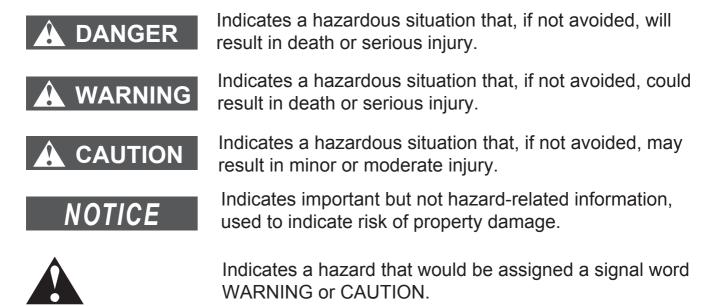
#### NOTICE:

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

The appliance shall be installed in accordance with national wiring regulations 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.

Please read this operating manual carefully before operating the unit. The figures in this manual may be different with the material objects, please refer to the material objects for reference.

# Explanation of Symbols



# Precautions MARNING

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

The air conditioner should be installed in accordance with national wiring regulation. Air Conditioner should be properly grounded. Incorrect grounding may cause electric shock.

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Do not connect air conditioner to multi-purpose socket.Otherwise, it may cause fire hazard.
- Do install the air switch. If not, it may cause malfunction.
- Do not spill water on the remote controller'otherwise the remote controller may be broken.
- Do not spray water on air conditioner. It may cause electric shock or malfunction.
- Do not extend fingers or objects into air inlet or air outlet. It may cause personal injury or damage.
- Do not step on air conditioner, or put heavy objects. It may cause damage or personal injury.
- Do not block air outlet or air inlet. It may cause malfunction.
- Do disconnect power supply when cleaning air conditioner. Otherwise, it may cause electric shock.
- Do not repair air conditioner by yourself. It may cause electric shock or damage. Please contact dealer when you need to repair air conditioner.
- Maintenance must be performed by qualified professionals. Otherwise, it may cause injury or damage.
- The appliance is not to be used 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.
- Children being supervised not to play with the appliance.

Please install the devices for short-circuit protection and electrical leakage protection when installing the air conditioner.

According to the local safety regulations, use qualified power supply circuit and circuit break.

## Working temperature range

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

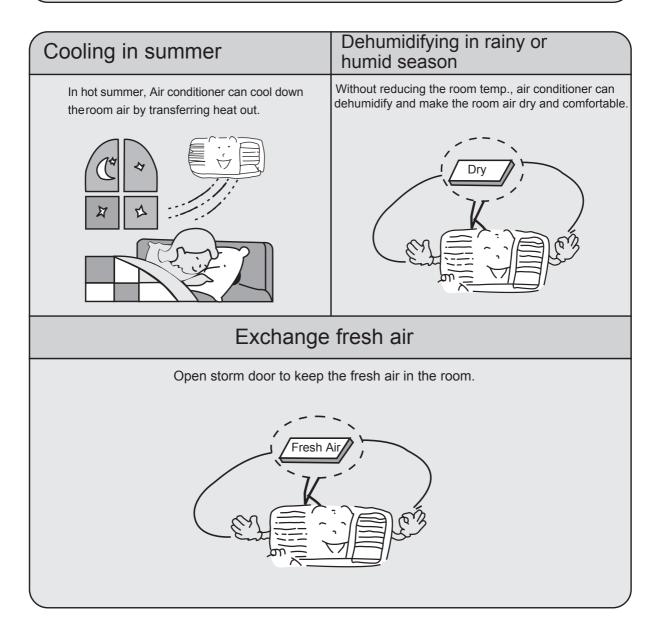
The operating temperature range (outdoor temperature) for cooling only unit is  $18^{\circ}C \sim 43^{\circ}C$ .

## Function

#### Introduction

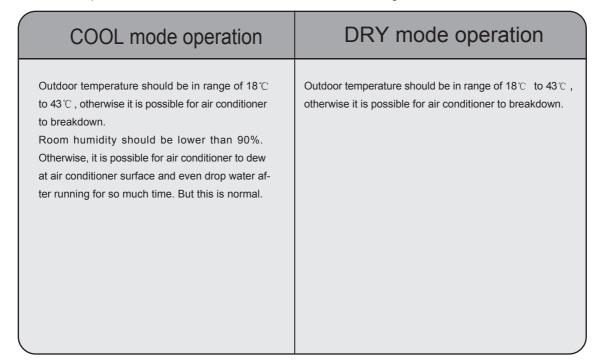


Window type room air conditioners can regulate the room temperature and dry the room. It is convenient for your work,study and life. It can be widely used in residence, shop, hotel, office, library and laboratory, and so on.

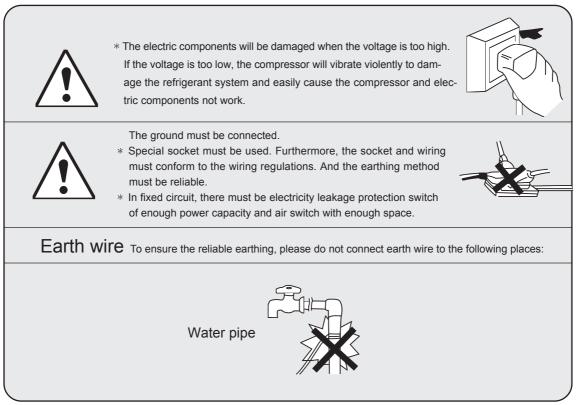


## Operating Condition

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



## 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.

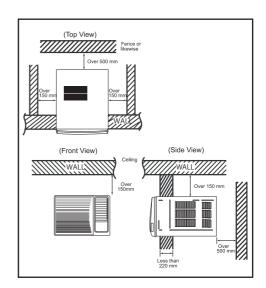


#### Location:

- 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.
- Avoid other heat sources or direct sun light.
- Avoid a place where is easy for children to touch.
- Don't use the unit in the immediate surrondings of a laundry, a bath, a shower or a swimming pool.
- For window type air conditioner with remote control, install in a location where is strong electromagnetic disturbance, you should contact the seller to slove the problem in advance to avoid the malfunction in use.

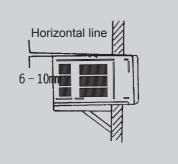
#### How to install:

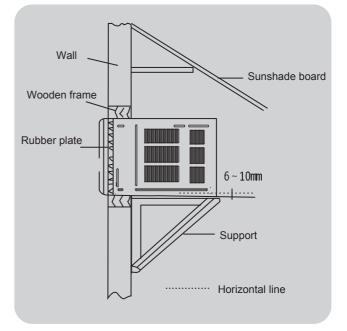
- Choose a location where there are no any obstacle surrounding the unit, and the plug is accessible.
- Prepare the installation hole slightly bigger than unit size.
- Choose the installation space according to the following diagram.



#### 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 for one style:

To get the maximum cooling efficiency, Athe air conditioner is designed to splash the condensate 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. A there is a drainage outlet at the back of the unit.

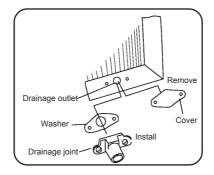
2. Remove cover from the drainage outlet, and then connect drainage joint to it with screw.

3. AConnect the drain hose to the outlet.

Note:

Drain hose or tubing can be purchased locally

to satisfy your particular needs.

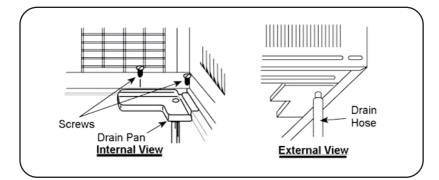


#### Drain water for another style:

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

To the cooling only unit, Af the splashing sound annoys you, you can provide an outside drain by using the follo -wing procedure, whichmay 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 pan and drain hose must be installed before using reverse cycle models.
- Drain hose or tubing can be purchased locally to satisfy your particular needs.

## Notes for installation

#### Remove

Before removing air conditioner to the other place, you should contact the seller firstly. Then it must be done under the direction of the professional

technician. In addition, the charge of this must be paid.

#### Noise

- Install in a location where is firm enough to avoid the enlargement of noise and vibration.
- Don't put anything in front of the outlet of outdoor unit to avoid increasing noise.
- Be sure that hot air or noise will not inconvenience neighbors.
- · Please contact the seller as soon as there is strange noise during operation.
- Please use the safety support.

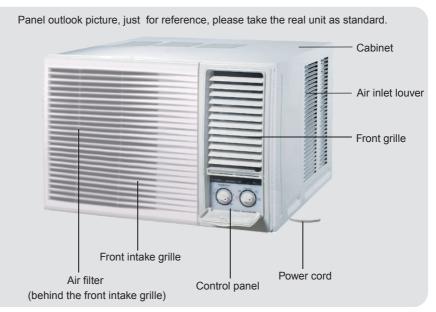
#### Electric wiring

- Must connect with ground reliably.
- The exclusive circuit must be used. But removable socket can't be used because poor contact of it can cause over heat or fire.
- Don't pull the power cord strongly.
- In fixed circuit, there must be electricity leakage protection switch and leakage current is less than 30mA.
- Connecting method between air conditioners and power cord and interconnecting method of each individual element with one another should accord with wiring diagram on the unit.
- The air conditioner should be installed in accordance with national wiring regulation.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring
- Air switch (thermal-magnetic breaker) should be installed in the circuit
- If the supply cord is damaged, it must be replaced by the manufacturer or your dealer or a qualified person to avoid a hazard.
- All The electrical work must be done according to the local wiring regulations.





## Part identification



## Air direction adjustment

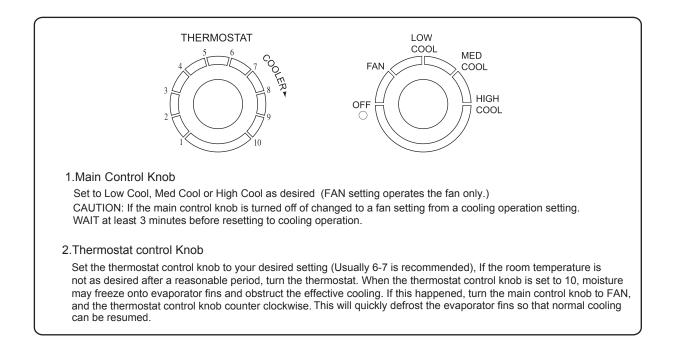
#### Vertical airflow direction vane

(Air flow 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.



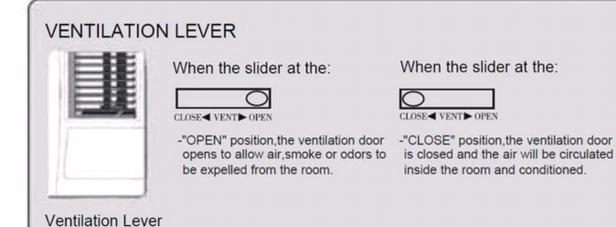
## Main switch operation procedure





#### 3. Air Swing Switch

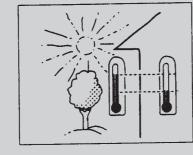
**(Airflow direction adjustment Side-to Side)** To obtain a fix airflow direction, set the air swing switch to "ON" for the vanes to swing from side to side until the desired flow direction is reached, then switch it to "OFF". For continuous side-to-side air circulation, set the air swing switch to "ON".

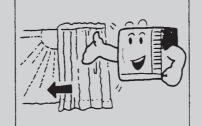


## Operation Tips

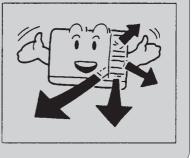
#### Operation for comfort and economy

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.

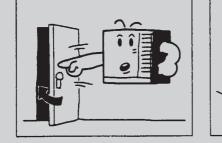


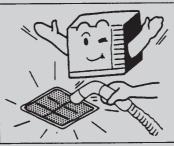


Keep the room temp. uniform Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room. Air can't be discharged to the direction of air-in.



Make sure that the doors and windows are tightly closed. Avoid opening doors and windows frequently 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.





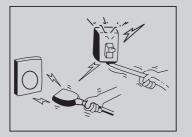
## CAUTION

#### Operations for safety and health

1) The plug must be accessible after the appliance is positioned.

2) Do not use this appliance in the laundry.

- 3) If the power cord is damaged, it must be replaced by the manufacture or its service agent in void of hazard.
- Do not pull out the power cord. • Damage to the cord may result
  - in serious electric shocks.
- for other purposes except for cooling the room. • Do not use the air conditioner
  - for other purposes such as . Do not insert sticks or other drying clothes, preserving foods, or cultivating vegetables.





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



Select the most appropriate temperature.

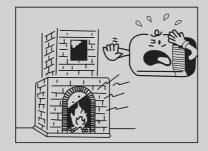
Pay attention to adjust the temperature to suit the conditions. Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.

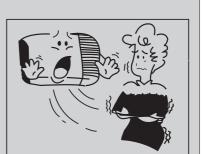


the vicinity. The air conditioner's plastic parts will melt if exposed to excessive heat.

Do not use heating apparatuses in 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 or heating



## O Care and maintenance

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

## Cleaning unit



## Trouble shooting guide

Check the following points before calling for repair or service. If the malfunction persists, please contact Shun Hing Electric Service Centre Ltd.

Fault phenomenon	Trouble-shooting
Air conditioner dose not operate at all.	<ul> <li>* Is there a power failure?</li> <li>* Is the plug out?</li> <li>* Has the internal fuse blown?</li> <li>* Is voltage operated in rated range?</li> </ul>
Cool or heat efficiency is not good.	<ul> <li>* Is air inlet or outlet locking?</li> <li>* Is there any other heat/cool source in room?</li> <li>* Are air filters dirty very much?</li> <li>* Is indoor fan speed set at LOW?</li> <li>* Maybe the room is too hot/cool when the unit is started.</li> </ul>
Foggy air flows out.	<ul> <li>* 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.</li> <li>* 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.</li> </ul>
The air conditioner opera- tion is noisy.	<ul> <li>* For a noise that sounds like water flowing: This is the sound of freon flowing inside the air conditioner unit.</li> <li>* For a noise that sounds like a shower: This is the sound of the dehumidifying water being processed inside the air conditioner unit.</li> </ul>
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 dose not operate for about 3 minutes when restart.	<ul><li>* This is to protect the mechanism.</li><li>* Wait about three minutes and operation will begin.</li></ul>

## Special Avowal

 The information above has been checked; our company reserves the hermeneutic power to any print errors or misunderstanding on the content.
 Any technology improvement will add into new instruction without any prior notices. The product appearance and color refer to the practical air conditioner.

3. The e-copy of user manual can be sent by e-mail on requested, please call Shun Hing Electric Works & Engineering Co. Ltd. hotline at 2861 2767.

## After sale service

Guarantee period state from the date of purchasing to one year. If the product is damaged under proper use, a free repair service is available. Please present the official invoice and the guarantee certificate with the sales point's chop / redemption center's chop for free maintenance.For enquiries, please contact Shun Hing Electric Service Centre Limited hotline at 2406 5666.

# Turn off the power and contact Shun Hing Electric Service Centre Ltd. as soon as any of the following events occur.

•The circuit breaker frequently trips or the fuse blows regularly.

- ·If water or foreign objects have accidentally entered the air conditioner.
- · If there is abnormal sound during operation.





信興電工工程有限公司

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For the latest information of customer service centres, please visit www.shesc.com or call us at our hotline.

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