

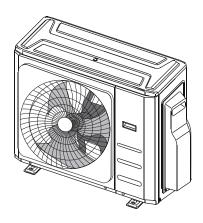
Owner's Manual

SHARP

Indoor unit Outdoor unit

-AH-XC9XV -AU-X3M21XV

-AH-XC12XV -AU-X4M28XV





IMPORTANT NOTE:



- Read this manual carefully before installing or operating your new air conditioning unit.
 Make sure to save this manual for future reference.
- This manual only describes the outdoor unit of user's. When using the indoor unit, refer to the user's manual of indoor unit.

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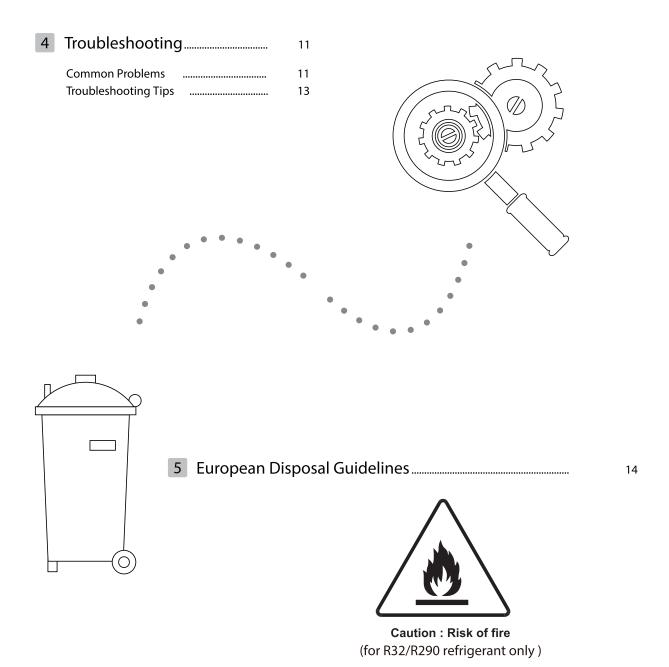
Owner's Manual



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WARNING: Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants. For more details ,please refer to the Information on servicing on INSTALLATION MANUAL .(This is only required for the unit adopts R32/R290 Refrigerant)

Safety Precautions

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Thank you for purchasing this air conditioner. This manual will provide you with information on how to operate, maintain, and troubleshoot your air conditioner. Following the instructions will ensure the proper function and extended lifespan of your unit.

Please pay attention to the following signs:



Failure to observe a warning may result in death. The appliance must be installed in accordance with national regulations.



Failure to observe a caution may result in injury or equipment damage.



This symbol indicates that you must never perform the action indicated.

WARNING

- Ask an authorized dealer to install this air conditioner. Inappropriate installation may cause water leakage, electric shock, or fire.
- The warranty will be voided if the unit is not installed by professionals.
- If abnormal situation arises (like burning smell), turn off the power supply and call your dealer for instructions to avoid electric shock, fire or injury.
- <u>DO NOT</u> let the indoor unit or the remote control get wet. It may cause electric shock or fire.
- <u>DO NOT</u> insert fingers, rods or other objects into the air inlet or outlet. This may cause injury, since the fan may be rotating at high speeds.
- <u>DO NOT</u> use a flammable spray such as hair spray, lacquer or paint near the unit. This may cause fire or combustion.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- Be aware that the refrigerants may not contain an odour.

- Compliance with national gas regulations shall be observed.
- Keep ventilation openings clear of obstruction.
- DO NOT pierce or burn.
- A warning that the appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- The appliance shall be installed in accordance with national wiring regulations.
 (In North America,installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.)

A CAUTION

- <u>DO NOT</u> touch the air outlet while the swing flap is in motion. Fingers might get caught or the unit may break down.
- **DO NOT** inspect the unit by yourself. Ask an authorized dealer to perform the inspection.
- To prevent product deterioration, do not use the air conditioner for preservation purposes (storage of food, plants, animals, works of art, etc.).
- <u>DO NOT</u> touch the evaporator coils inside the indoor unit. The evaporator coils are sharp and may cause injury.
- <u>DO NOT</u> operate the air conditioner with wet hands. It may cause electric shock.
- <u>DO NOT</u> place items that might be affected by moisture damage under the indoor unit. Condensation can occur at a relative humidity of 80%.
- <u>DO NOT</u> expose heat-producing appliances to cold air or place them under the indoor unit. This may cause incomplete combustion or deformation of the unit due to the heat.
- After long periods of usage, check the indoor unit to see if anything is damaged. If the indoor unit is damaged, it may fall and cause injury.
- If the air conditioner is used together with other heating devices, thoroughly ventilate the room to avoid oxygen deficiency.
- <u>DO NOT</u> climb onto or place objects on top of the outdoor unit.
- <u>DO NOT</u> operate the air conditioner when using fumigant insecticides. The chemicals may become layered with the unit and endanger those who are hypersensitive to chemicals.
- <u>DO NOT</u> let children play with the air conditioner.
- <u>DO NOT</u> operate the air conditioner in a wet room (e.g. bathroom or laundry room). This can cause electrical shock and cause the product to deteriorate.

 This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Unit Parts And Major Functions

Unit Parts

Wall-mounted type

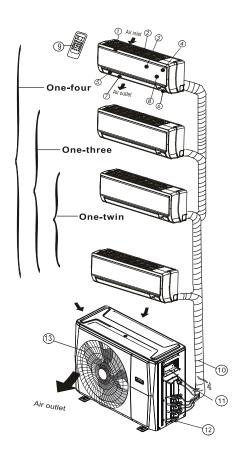


Fig. 2.1

Indoor unit

- 1. Panel frame
- 2. Rear air intake grille
- 3. Front panel
- 4. Air purifying filter & Air filter(behind)
- 5. Horizontal louver
- 6. LCD display window
- 7. Vertical louver
- 8. Manual control button(behind)
- 9. Remote controller

Outdoor unit

- 10. Drain hose, refrigerant connecting pipe
- 11. Connective cable
- 12. Stop valve
- 13. Fan hood

NOTE: For multi-split type air conditioners, one outdoor unit can be matched to different types of indoor units. All of the pictures in this manual are for demonstration purposes only. Your air conditioner may be slightly different, if similar in shape. The following pages introduce several kinds of indoor units that can be matched with the outdoor units.

Operating Conditions

Use the system under the following temperatures for safe and effective operation. If the air conditioner is used under different conditions, it may malfunction or become less efficient.

	COOL Mode	DRY mode	
Indoor Temperature	17°C-32°C(63°F-90°F)	10°C-32°C(50°F-90°F)	
	0°C-50°C (32°F-122°F)	0°C-50°C (32°F-122°F)	
Outdoor Temperature	-15°C-50°C (5°F-122°F) (For models with low-temp cooling systems)		
	0°C-52°C (32°F-126°F) (For special tropical models)	0°C-52°C (32°F-126°F) (For special tropical models)	

Features

Protection of the air conditioner Compressor protection

• The compressor cannot restart for 3 minutes after it stops.

Auto-Restart (some models)

In case of power failure, the system will immediately stop. When power returns, the Operation light on the indoor unit will flash. To restart the unit, press the **ON/OFF** button on the remote control. If the system has an auto restart function, the unit will restart using the same settings.

White mist emerging from the indoor unit

 A white mist may be generated due to a large temperature difference between air inlet and air outlet on COOL mode in places with high relative humidity.

Noise coming from the air conditioner

- You may hear a low hissing sound when the compressor is running or has just stopped running. This sound is the sound of the refrigerant flowing or coming to a stop.
- You may also hear a low "squeaking" sound when the compressor is running or has just stopped running. This is caused by tempera heat expansion and cold contraction of the plastic parts in the unit when the temperature is changing.
- A noise may be heard due to the louver restoring itself to its original position when power is first turned on.

Dust blowing out from the indoor unit.

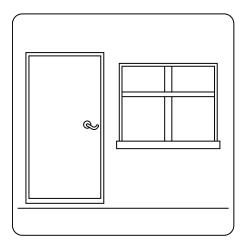
This is happens when the air conditioner has not been used for a long time or during its first use.

Smell emitting from the indoor unit.

This is caused by the indoor unit giving off smells permeated from building materials, furniture, or smoke.

Energy Saving Tips

- **DO NOT** set the unit to excessive temperature levels.
- While cooling, close the curtains to avoid direct sunlight.
- Doors and windows should be kept closed to keep cool air in the room.
- **DO NOT** place objects near the air inlet and outlet of the unit. This will reduce the efficiency of the unit.
- Set a timer and use the built-in SLEEP/ECONOMY mode if applicable.
- If you don't plan to use the unit for a long time, remove the batteries from the remote control.
- Clean the air filter every two weeks. A dirty filter can reduce cooling or heating efficiency.
- · Adjust louvers properly and avoid direct airflow.



Doors and windows should be kept closed

Maintenance

If you plan to leave the unit idle for a long time, perform the following tasks:

- 1. Clean the indoor unit and air filter.
- 2. Select FAN ONLY mode and let the indoor fan run for a time to dry the inside of the unit.
- 3. Disconnect the power supply and remove the battery from the remote control.
- 4. Check components of the outdoor unit periodically. Contact a local dealer or a customer service centre if the unit requires servicing.

NOTE: Before you clean the air conditioner, be sure to switch off the unit and disconnect the power supply plug.

Optimal operation

To achieve optimal performance, please note the following:

- Adjust the direction of the air flow so that it is not blowing directly on people.
- Adjust the temperature to achieve the highest possible level of comfort. Do not adjust the unit to excessive temperature levels.
- Close doors and windows in COOL mode
- Use the TIMER ON button on the remote controller to select a time you want to start your air conditioner.
- Do not place any object near the air inlet or air outlet, as the efficiency of the air conditioner may be reduced and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating performance may be reduced.
- Do not operate unit with horizontal louvre in closed position.

Suggestion:

For units that feature an electric heater, when the outside ambient temperature is below 0°C (32°F), it is strongly recommended that you to keep the machine plugged in so as to guarantee smooth operation.

When the air conditioner is to be used again:

- Use a dry cloth to wipe off the dust accumulated on the rear air intake grille in order to avoid the dust being dispersed from the indoor unit.
- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

Troubleshooting

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ACAUTIONS

If one of the following conditions occurs, switch off the power supply immediately and contact your dealer for further assistance.

- The operation light continues to flash rapidly after the unit has been restarted.
- The remote control buttons do not work.
- The unit continually trips fuses or circuit breakers.
- A foreign object or water enters the air conditioner.
- · Other abnormal situations.

Common Problems

The following symptoms are not a malfunction and in most situations will not require repairs.

Problem	Possible Causes	
Unit does not turn on when pressing ON/ OFF button	The unit has a 3-minute protection feature that prevents the unit from overloading. The unit cannot be restarted within three minutes of being turned off.	
	Cooling and Heating Models: If the Operation light and PRE-DEF (Pre-heating/Defrost) indicators are lit up, the outdoor temperature is too cold and the unit's anti-cold wind is activated in order to defrost the unit.	
	In Cooling-only Models: If the "Fan Only" indicator is lit up, the outdoor temperature is too cold and the unit's anti-freeze protection is activated in order to defrost the unit.	
The unit changes from COOL mode to FAN mode	The unit changes its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating again.	
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will resume operating when the temperature fluctuates again.	
The indoor unit emits white mist		

Problem	Possible Causes			
The indoor unit makes noises	A squeaking sound is heard when the system is OFF or in COOL mode. The noise is also heard when the drain pump (optional) is in operation.			
Both the indoor unit and outdoor unit make noises	A low hissing sound may occur during operation. This is normal and is caused by refrigerant gas flowing through both the indoor and outdoor units.			
	A low hissing sound may be heard when the system starts, has just stopped running or is defrosting. This noise is normal and is caused by the refrigerant gas stopping or changing direction.			
The outdoor unit makes noises	The unit will make different sounds based on its current operating mode.			
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.			
The unit emits a bad odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.			
	The unit's filters have become moldy and should be cleaned.			
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimize product operation.			

Troubleshooting Tips

When troubles occur, please check the following points before contacting a repair company.

Problem	Possible Causes	Solution	
The unit is not working	Power failure	Wait for the power to be restored	
	The power switch is off	Turn on the power	
	The fuse is burned out	Replace the fuse	
	Remote control batteries are dead	Replace the remote control batteries	
	The unit's 3-minute protection has been activated	Wait three minutes after restarting the unit	
Poor cooling performance	Temperature setting may be higher than the ambient room temperature	Lower the temperature setting	
	The heat exchanger on the indoor or outdoor unit is dirty	Clean the affected heat exchanger	
	The air filter is dirty	Remove the filter and clean it according to instructions	
	The air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on	
	Doors and windows are open	Make sure that all doors and windows are closed while operating the unit	
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine	
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant	
The unit starts and stops frequently	There's too much or too little refrigerant in the system	Check for leaks and recharge the system with refrigerant	
	There is air, incompressible gas or foreign material in the refrigeration system.	Evacuate and recharge the system with refrigerant	
	System circuit is blocked	Determine which circuit is blocked and replace the malfunctioning piece of equipment	
	The compressor is broken	Replace the compressor	
	The voltage is too high or too low	Install a manostat to regulate the voltage	

European Disposal Guidelines

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Users in European Countries may be required to properly dispose of this unit. This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law requires special collection and treatment. **DO NOT** dispose of this product as household waste or unsorted municipal waste.

When disposing of this appliance, you have the following options:

- Dispose of the appliance at designated municipal electronic waste collection facility.
- When buying a new appliance, the retailer will take back the old appliance free of charge.
- The manufacturer will also take back the old appliance free of charge.
- Sell the appliance to certified scrap metal dealers.

NOTE: Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.





SHARP CORPORATION

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details. Any updates to the manual will be uploaded to the service website, please check for the latest version.