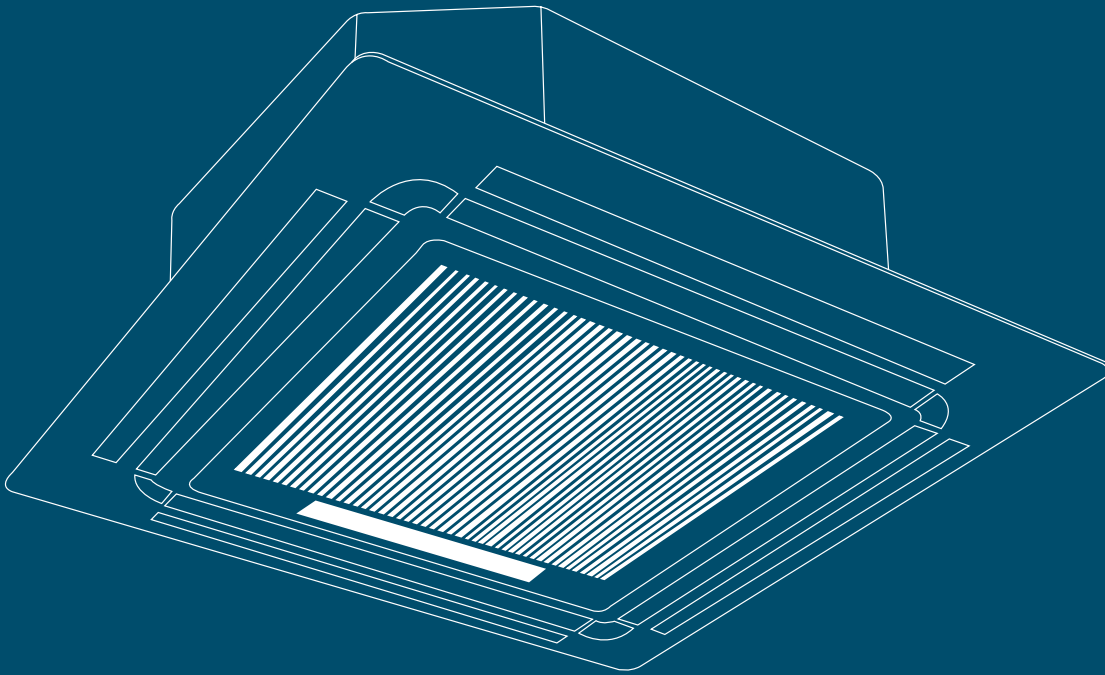


CASSETTE AIR CONDITIONER

Owner's Manual

KCS Series

KCS24 | KCS36 | KCS42 | KCS48



kaden[®]

Table of contents

1. Safety precautions	4
2. Unit specifications and features	5
Indoor unit display	5
Operating temperature	6
Other features	7
3. Care and maintenance	8
Cleaning your indoor unit	8
Cleaning your air filter	8
Maintenance – long periods of non-use	9
Maintenance – pre-season inspection	9
4. Troubleshooting	10
Common issues	10
Troubleshooting	11
5. Disposal guidelines	13

Important note

Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.

1. Safety precautions

Read safety precautions before operation and installation

Incorrect installation due to ignoring instructions can cause serious damage or injury.

The seriousness of potential damage or injuries is classified as either a WARNING or a CAUTION.



This symbol indicates the possibility of personal injury or loss of life.



This symbol indicates the possibility of property damage or serious consequences.



WARNINGS FOR PRODUCT USE

- Ask an authorised technician 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 a licensed person.
- If an abnormal situation arises (like a burning smell), turn off the power supply and call a licensed installer for instructions to avoid electric shock, fire or injury.
- **Do not** let the indoor unit or the remote control get wet. It may cause electric shock or fire.
- **Do not** 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.
- **Do not** use a flammable spray such as hair spray, lacquer or paint near the unit. This may cause fire or combustion.

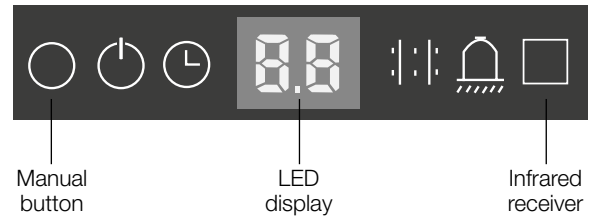
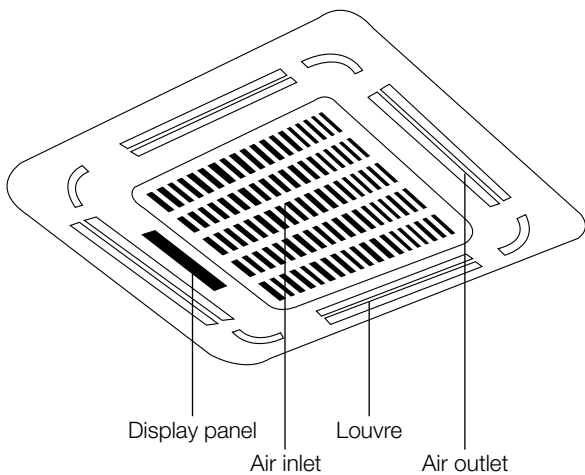


CAUTION

- **Do not** inspect the unit by yourself. Ask an authorised installer 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.).
- **Do not** touch the evaporator coils inside the indoor unit. The evaporator coils are sharp and may cause injury.
- **Do not** operate the air conditioner with wet hands. It may cause electric shock.
- **Do not** operate the air conditioner when using fumigant insecticides. The chemicals may become layered with the unit and endanger those who are hypersensitive to chemicals.
- **Do not** let children play with the air conditioner.
- If the air conditioner is used together with other heating devices, thoroughly ventilate the room to avoid oxygen deficiency.
- **Do not** climb onto or place objects on top of the outdoor unit.
- The air conditioner can be used by children aged 8 years and older and people with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, if they have been given instruction on how to properly and safely operate the system.
- **Do not** 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.
- An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- The appliance shall be installed in accordance with national wiring regulations.
- Children should be supervised to ensure that they **do not** play with the appliance.

2. Unit specifications and features

Indoor unit display



MANUAL BUTTON: This button selects the mode in the following order: AUTO, FORCED COOL, OFF.

FORCED COOL MODE: In FORCED COOL mode, the Operation light flashes. The system will then turn to AUTO after it has cooled with a high fan speed for 30 minutes. The remote control will be disabled during this operation.

OFF MODE: When the panel is turned OFF, the unit turns off and the remote control is re-enabled.

Operating temperature

When your air conditioner is used outside of the following temperature ranges, certain safety protection features may activate and cause the unit to disable.

Inverter split type

	COOL mode	HEAT mode	DRY mode
Room temperature	17°C – 32°C	0°C – 30°C	10°C – 32°C
Outdoor temperature	-15°C – 50°C	-15°C – 24°C	0°C – 50°C

When outside temperature is below 0°C we strongly recommend keeping the unit plugged in at all time to ensure smooth ongoing performance.

NOTE: If the air conditioner operates in excess of room relative humidity less than 80%, the surface of the air conditioner may attract condensation. Please sets the vertical air flow louvre to its maximum angle (vertically to the floor), and set HIGH fan mode.

To further optimise the performance of your unit, do the following:

- Keep doors and windows closed.
- Limit energy usage by using TIMER ON and TIMER OFF functions.
- **Do not** block air inlets or outlets.
- Regularly inspect and clean air filters.

Other features

Default setting

When the air conditioner restarts after a power failure, it will default to the factory settings (AUTO mode, AUTO fan, 24°C (76°F)). This may cause inconsistencies on the remote control and unit panel. Use your remote control to update the status.

Auto-restart

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.

Three-minute protection feature

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it restarts immediately after operation.

Louvre angle memory function

Some models are designed with a louvre angle memory function. When the unit restarts after a power failure, the angle of the horizontal louvres will automatically return to the previous position. The angle of the horizontal louvre should not be set too small as condensation may form and drip into the machine. To reset the louvre, press the manual button, which will reset the horizontal louvre settings.

Refrigerant leak detection system

In the event of a refrigerant leak, the LCD screen will display "EC" and the LED indicator light will flash.

3. Care and maintenance

Cleaning your indoor unit

BEFORE CLEANING OR MAINTENANCE

ALWAYS TURN OFF YOUR AIR CONDITIONER SYSTEM AND DISCONNECT ITS POWER SUPPLY BEFORE CLEANING OR MAINTENANCE.

CAUTION

Only use a soft, dry cloth to wipe the unit clean. If the unit is especially dirty, you can use a cloth soaked in warm water to wipe it clean.

- **Do not** use chemicals or chemically treated cloths to clean the unit.
- **Do not** use benzene, paint thinner, polishing powder or other solvents to clean the unit. They can cause the plastic surface to crack or deform.
- **Do not** use water hotter than 40°C to clean the front panel. This can cause the panel to deform or become discoloured.

Cleaning your air filter

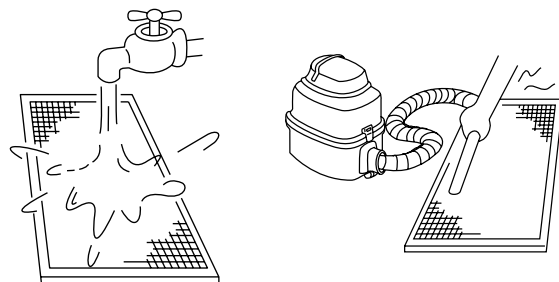
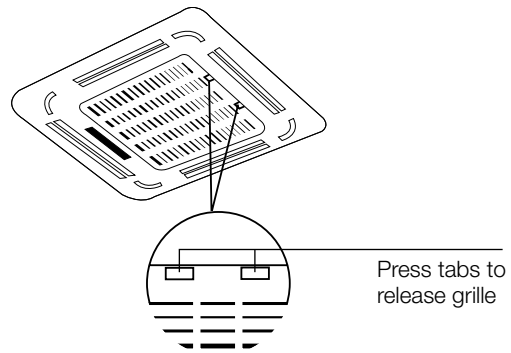
A clogged air conditioner can reduce the cooling efficiency of your unit, and can also be bad for your health.

WARNING: DO NOT REMOVE OR CLEAN THE FILTER BY YOURSELF

Removing and cleaning the filter can be dangerous. Removal and maintenance must be performed by an authorised technician.

1. Unlock the grille by pushing the two tabs towards the middle simultaneously.
2. Unplug the display panel cable from the control box on the main body.
3. Detach the grille from the main unit by holding the grille at a 45° angle, lifting it up slightly and then pulling the grille forward.
4. Remove the air filter.

5. Clean the air filter by vacuuming the surface or washing it in warm water with mild detergent.
6. Rinse the filter with clean water and allow it to air-dry. **Do not** let the filter dry in direct sunlight.
7. Reinstall the filter.
8. Reinstall the front grille and reconnect the display panel cable to the control box on the main body.



If using water, the inlet side should face down and away from the water stream.

If using a vacuum cleaner, the inlet side should face the vacuum.

! CAUTION

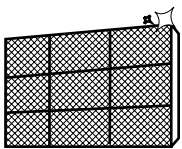
- Before changing the filter or cleaning, turn off the unit and disconnect its power supply.
- When removing filter, **do not** touch metal parts in the unit. The sharp metal edges can cut you.
- **Do not** use water to clean the inside of the indoor unit. This can destroy insulation and cause electrical shock.
- **Do not** expose filter to direct sunlight when drying. This can shrink the filter.

! CAUTION

- Any maintenance and cleaning of outdoor unit should be performed by an authorised technician
- Any unit repairs should be performed by an authorised technician.

Maintenance – long periods of non-use

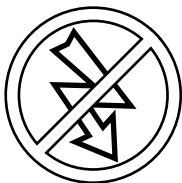
If you plan not to use your air conditioner for an extended period of time, do the following:



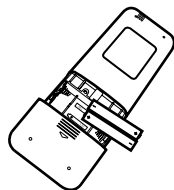
Clean all filters



Turn on FAN function until unit dries out completely



Turn off the unit and disconnect the power



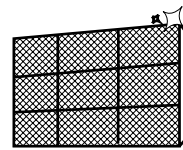
Remove batteries from remote control

Maintenance – pre-season inspection

After long periods of non-use, or before periods of frequent use, do the following:



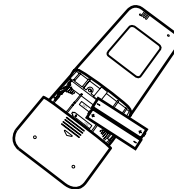
Check for damaged wires



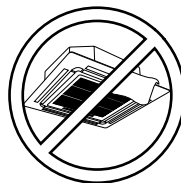
Clean all filters



Check for leaks



Replace batteries



Make sure nothing is blocking all air inlets and outlets



4. Troubleshooting



SAFETY PRECAUTIONS

If any of the following conditions occurs, turn off your unit immediately!

- The power cord is damaged or abnormally warm
- You smell a burning odour
- The unit emits loud or abnormal sounds
- A power fuse blows or the circuit breaker frequently trips
- Water or other objects fall into or out of the unit

DO NOT ATTEMPT TO FIX THESE YOURSELF! CONTACT AN AUTHORISED TECHNICIAN IMMEDIATELY!

Common issues

The following are not malfunctions and in most situations will not require repairs.

Issue	Possible causes
Unit does not turn on when the ON/OFF button is pressed	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/HEAT mode to FAN mode	The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating in the previously selected mode again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will continue operating when the temperature fluctuates again.
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.
The indoor unit makes noises	A rushing air sound may occur when the louvre resets its position.
	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.
	A squeaking sound may occur after running the unit in HEAT mode due to expansion and contraction of the unit's plastic parts.
Both the indoor unit and outdoor unit make noises	Low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.
	Low hissing sound 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.
	Squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.

Issue	Possible causes
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 odour	The unit may absorb odours from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become mouldy and should be cleaned.
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimise product operation.

Troubleshooting

When troubles occur, please check the following points before contacting your qualified technician.

Problem	Possible causes	Solution
Poor cooling performance	Temperature setting may be higher than ambient room temperature	Lower the temperature setting
	The heat exchanger on the indoor or outdoor unit is dirty	Contact a qualified service technician
	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
	There are too many sources of heat in the room (people, computers, electronics, etc.)	Reduce amount of heat sources
	Low refrigerant due to leak or long-term use	Contact a qualified service technician
The unit is not working	Power failure	Wait for the power to be restored
	The power is turned off	Turn on the power
	The fuse is burned out	Contact a qualified service technician
	Remote control batteries are dead	Replace batteries
	The unit's 3-minute protection has been activated	Wait three minutes after restarting the unit
	Timer is activated	Turn timer off

Problem	Possible causes	Solution
The unit starts and stops frequently	There's too much or too little refrigerant in the system	Contact a qualified service technician
	Incompressible gas or moisture has entered the system	Contact a qualified service technician
	System circuit is blocked	Contact a qualified service technician
	The compressor is broken	Contact a qualified service technician
	The voltage is too high or too low	Contact a qualified service technician
Poor heating performance	The outdoor temperature is extremely low	Contact a qualified service technician
	Cold air is entering through doors and windows	Make sure that all doors and windows are closed during use
	The refrigerant level has become low due to a leak or long-term use	Contact a qualified service technician
Indicator lamps continue flashing	The unit may stop operation or continue to run safely. If the indicator lamps continue to flash or error codes appear, wait for about 10 minutes. The problem may resolve itself.	
Error code appears and begins with the following letters in the window display of the indoor unit:	If not, disconnect the power, then connect it again. Turn the unit on. If the problem persists, disconnect the power and contact your nearest qualified service technician.	
	<ul style="list-style-type: none"> • E(x), P(x), F(x) • EH(xx), EL(xx), EC(xx) • PH(xx), PL(xx), PC(xx) 	

NOTE: If your problem persists after performing the checks and diagnostics above, turn off your unit immediately and contact your qualified service technician.

5. Disposal guidelines

The appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law may require special collection and treatment. Decommissioning of this air conditioner must be performed by a trade qualified licensed technician so as to comply with Australian law.

Emitting some refrigerants to the atmosphere is illegal and is detrimental to the environment.

CAUTION

This air conditioner contains high pressure refrigerant and oil.

Do not dispose of this product as a 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.
- Sell the appliance to a certified scrap metal dealer.

NOTE: Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment.



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