



DXK21ZMA-S DXK24ZMA-S DXK28ZMA-S DXK32ZMA-S

CE

This air conditioner complies with EMC Directive 2004/108/EC, LV Directive 2006/95/EC.

RKW012A412A

Thank you for purchasing a MITSUBISHI HEAVY INDUSTRIES, LTD. Air-Conditioner. To get the best long-lasting performance, please read and follow this User's Manual carefully before using your air-conditioner. After reading, please store the Manual in a safe place and refer to it for operational questions or in the event of any irregularities.

This air-conditioner is intended for domestic use.

Do not vent R410A into the atmosphere: R410A is a fluorinated greenhouse gas, covered by the Kyoto Protocol with a Global Warming Potential (GWP) = 1975. Your Air Conditioning product may be marked with this symbol. It means that waste electrical and electronic equipment (WEEE as in directive 2002/ 96/EC) should not be mixed with general household waste. Air conditioners should be treated at an authorized treatment facility for re-use, recycling and recovery and not be disposed of in the municipal waste stream. Please contact the installer or local authority for more information. This symbol printed in the batteries attached to your Air Conditioning product is information for end-users according to the EU directive 2006/66/ EC article 20 annex II. Batteries, at their end-of-life, should be disposed of separately from general household waste. If a chemical symbol is printed beneath the symbol shown above, this chemical symbol means that the batteries contain a heavy metal at a certain concentration. This will be indicated as follows: Hg:mercury(0.0005%), Cd:cadmium(0.002%), Pb:lead(0.004%) Please, dispose of batteries correctly at your local community waste collection or the recycling center.

The emission sound pressure level from each Indoor and Outdoor unit is under 70 dB(A).

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Safety precautions

- Before starting to use the system, please read these "Safety precautions" carefully to ensure proper operation of the system.
- When you have read this instruction manual, please keep it without missing. If someone else takes over as operator, make certain that the manual is also passed on to the new operator.

Improper handling could lead to drastic result like death, serious injury, etc.
Might pose a serious problem, depending on the circumstances.

Please observe these precautions with great care, since they are essential to your safety.

Symbols which appear frequently in the text have the following meaning: •



Strictly prohibited





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Provide proper earthing

INSTALLATION PRECAUTIONS

great care



• The system is for domestic, residential etc. use. If used in severer environments, such as an engineering workplace, the equipment may function poorly.

• The system must be installed by your dealer or a qualified professional. It is not advisable to install the system by yourself, as faulty handling may cause leakage of water, electric shock or fire.



Do not install it where flammable gas may leak. Gas leaks may cause fire.

- · Depending on the place of installation, an earth leakage breaker may be necessary. If you do not install an earth leakage breaker, you may get an electric shock.
- · Make sure to install the drain hose properly so that all the water is drained out. Improper installation may lead to water drop in the room resulting in wet furniture.



· Make sure that the system has been properly earthed. Earth cables should never be connected to a gas pipe, water pipe, lightning conductor or telephone earth cable. Incorrect installation of the earth cable may produce an electric shock.

OPERATION PRECAUTIONS

- Do not expose yourself to the cooling air for a long period. This could affect your physical condition and
- cause health problems. • Do not insert anything into the air inlet. This may cause injury, as the internal fan rotates at high speed.
- The 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.



· Store the remote control out of reach of infants. Failure to observe this may result in the batteries being swallowed or other accidents.



- Only use approved fuses. Use of steel or copper wire instead of an approved fuse is strictly prohibited, as it may cause a breakdown or fire.
- · Do not handle the switches with wet hands. This may cause an electric shock.
- · Do not swing from the indoor unit. If the indoor unit falls down, you may get injured.
- Do not place a flammable insecticide or paint spray near the blower, nor spray it directly on the system.

This may result in a fire.

 You should not expose any combustion appliance directly to the air stream of the airconditioner.

The appliance may then work inadequately.

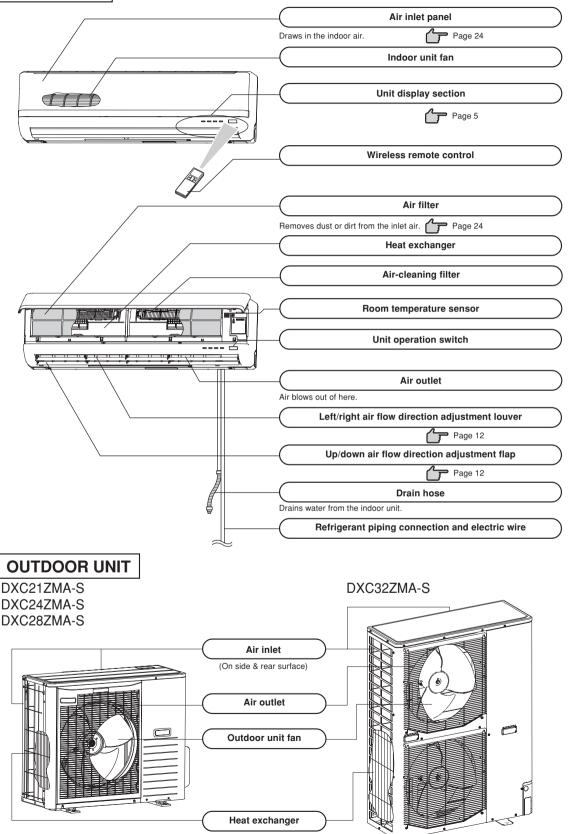
 Do not wash the air-conditioner with water. This could cause an electric shock. The system should only be used for its original purpose and not for anything else like, for instance, preservation of food, plants or animals, precision devices or works of art. The system is only intended for use in ordinary domestic rooms. Any other use of the system may damage the quality of food, etc. Do not place anything containing water, like vases, on top of the unit. Water entering the unit could damage the insulation and therefore cause an electric shock. Do not install the system where the airflow direction is aimed directly at plants or animals. This will damage their health. Do not sit on the outdoor unit nor put anything on it. If the unit falls down or things drop off it, people could get hurt. After a long period of use, check the unit's support structure from time to time. If you do not repair any damage right away, the unit may fall down and cause personal injury. 	 Do not touch the aluminum fins on the air heat exchanger. It may result in injury. Do not place household electrical appliances or household items under neath the indoor or outdoor units. Condensation falling from the unit may stain objects and cause accidents or electrical shock. Do not operate the system without the air filter. It can cause malfunction of the system due to clogging of the heat exchanger. Do not shut off the power supply immediately after stopping the operation. Wait at least 5 minutes, otherwise there is a risk of water leakage or breakdown. Do not control the system with main power switch. It can cause fire or water leakage. In addition, the fan can start unexpectedly, which can cause personal injury. 						
 If you operate the system together with a combustion appliance, you must regularly ventilate the indoor air. Insufficient ventilation may cause accidents due to oxygen deficiency. Stand firmly on a stepladder or other stable object when removing the inlet panel and filters. Failure to observe this may result in injury through insecure objects toppling over. When you clean the system, stop the unit and turn off the power supply. Never open the panel while the internal fan is rotating. 	 Do not place objects near the outdoor unit or allow leaves to gather around the unit. If there are objects or leaves around the outdoor unit, small animals may enter unit and contact electrical parts and may cause a break-down, smoke or fire. Contact your dealer to clean inside the indoor unit, do not attempt to do by yourself. The use of a non-approved detergent or improper washing method may damage the unit's plastic components and cause leaks. Damage, smoke, or fire may also happen if the detergent comes in contact with electrical parts or the unit's motor. Stop the unit and turn off the power if you hear thunder or there is a danger of lightning. It may damage the unit. 						

PRECAUTIONS FOR RELOCATION OR REPAIRS

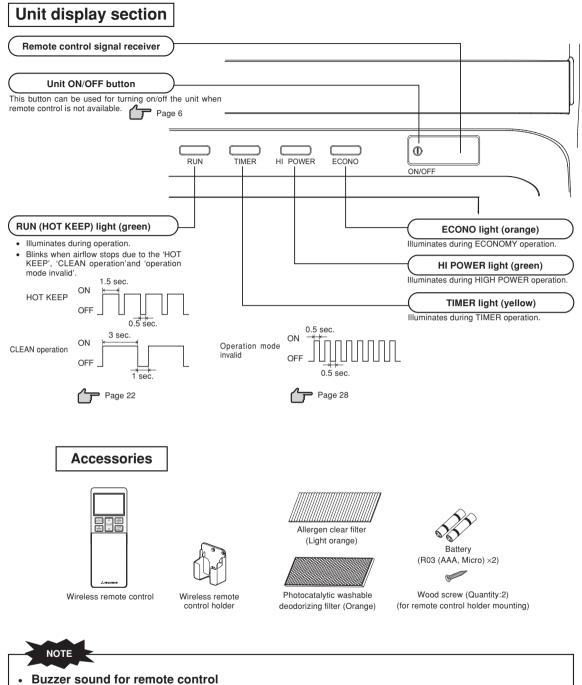
\bigcirc	• Do not perform any repairs or modifications to repair. If you repair or modify the unit, it can cause wate	by yourself. Consult the dealer if the unit requires r leaks, electric shocks or fire.			
0	 Consult your dealer for repairs. Wrong repairs could cause an electric shock, fire, etc. In case the air-conditioner is relocated elsewhere, contact your dealer or a professional fitter. Faulty installation may cause water leakage, electric shock, fire, etc. If you notice anything abnormal (smell of burning, etc.), stop the system, turn off the power supply and consult your dealer. Continued use of the system in abnormal circumstances may result in malfunctioning, electric shock, fire, etc. 	 If the air-conditioner fails to cool or warm the room, it may have a refrigerant leakage. Contact your dealer. If refrigerant needs to be added, check with your dealer for proper instructions. If the refrigerant comes in contact with the bare skin, it may cause cold injury. If the refrigerant gas is inhaled excessively, it may cause deterioration of nerve function like dizziness and headache, or deterioration of heart function like irregular heartbeat and heart palpitation temporarily. If refrigerant unexpectedly leaks from the unit onto a fan heater, stove, hotplate or other heat source, harmful gases could be generated. 			

Name of each part and its function

INDOOR UNIT



Name of each part and its function



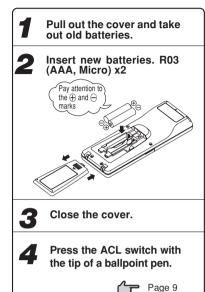
When preset temperature 24°C, automatic operation and automatic airflow are selected, the buzzer sound (PiPi) is produced. When turning off the air conditioner by pressing ON/OFF button (except CLEAN mode), the buzzer sound (Pi) is produced. This function is useful for operating the air conditioner in the darkness.



Remote control handling

Replacing the batteries

- The following cases signify exhausted batteries. Replace old batteries with new ones.
- · Receiving beep is not emitted when a signal is transmitted.
- · Display fades away.



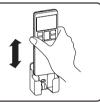
NOTE

- Do not use old and new batteries together.
- Remove the batteries when the remote control is not used for a long period.
- The recommended effective period of a battery conforming to JIS or IEC should be 6 to 12 months with normal use. If used longer, or when an unspecified battery is used, liquid may leak from the battery, causing the remote control to malfunction.
- The recommendable effective period is printed on the battery. This may be shorter due to manufacturering time to the unit. However, the battery may still be in working order after expiry of its nominal life.
- When the display shows any abnormal condition, Press the ACL switch with the tip of a ballpoint pen.

Using the remote control holder

The remote control can be attached to a wall or pillar by using a remote control holder. Before installing the remote control, check that the air-conditioner receives the signals properly.

For installing or removing the remote control, move it up or down in the holder.



Warning note for remote control handling

Strictly prohibited					
 Do not go near high temperature places, such as an electric carpet or stove. 	 Do not leave the remote control exposed to direct sunlight or other strong lighting. 	• Do not drop the remote control. Handle with care.			
• Do not put any obstructing obsta- cles between the remote control and the unit.	 Do not spill any liquid on the remote control. 	Do not place heavy objects on the remote control, or step on it.			

Operation failure with the remote control

• Are the batteries running down?

"Replacing the batteries" above. Replace the batteries with new ones and retry the operation. If the operation fails, operate the unit with temporary operation function.
 Contact your dealer to have the remote control checked.

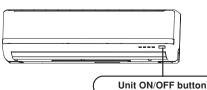


Temporary run operation

The unit ON/OFF button on the unit operates ON/OFF temporarily when the remote control is not used.

Operation program
 OPERATION MODE · AUTO

•		•	AUTO
•	FAN SPEED	:	AUTO
	AIR FLOW	:	AUTO



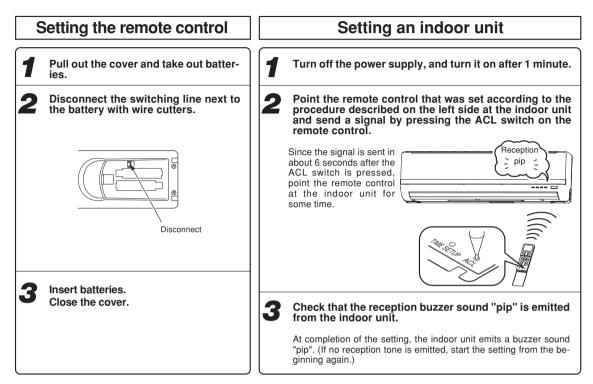
Operation starts by pressing the unit ON/OFF button; it stops if you press
the button again.



 Do not hold the Unit ON/OFF button down for more than 5 seconds. (Holding it down longer than 5 seconds sets the automatic cooling used during servicing or when relocating the air-conditioner.)

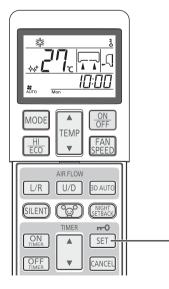
Installing two air conditioners in the same room

When two air conditioners are installed in the same room, use this setting when the two air conditioners are not operated with one remote control. Set the remote control and indoor unit.



Child Lock

This function locks the remote control operation to prevent an operation error.



Point the remote control toward the air-conditioner, and

Press the SET button for 3 seconds or longer.

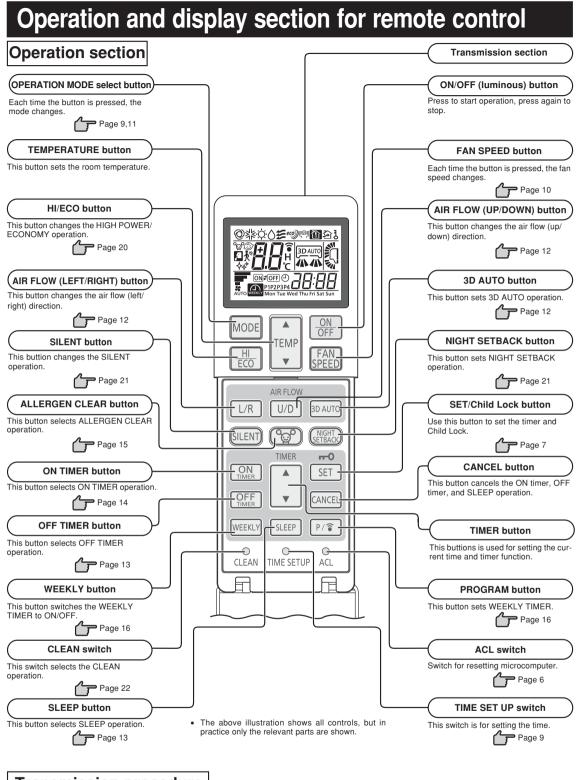
 ${\bf J}$ is displayed. While Child Lock is set, only the ON/OFF button can be operated.

- Releasing procedure -

Turn off the light $\frac{1}{2}$ by pressing the SET button for 3 seconds or longer.



- While Child Lock is set, the settings of temperature, fan speed and airflow direction cannot be changed. To change the settings, reset Child Lock.
- Child lock will not function during ALLERGEN CLEAR operation.

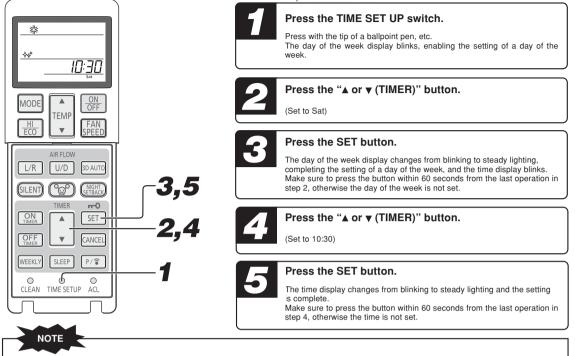


Transmission procedure

When each button on the remote control is pressed – with the remote control pointing towards the air-conditioner unit, a signal is transmitted. When the air-conditioner receives the signal correctly, it will beep.

Current time setting

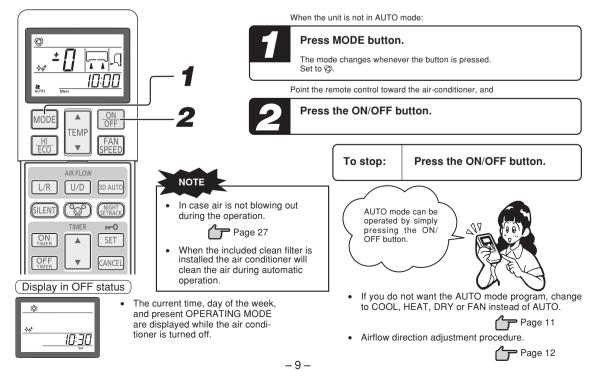
When inserting the batteries, the current time is automatically set to time setting mode. Mon and 13:00 are displayed as the current time. Set a correct day of the week and a time.
Example: Set to Sat 10:30.



- The timer operation works based on the time clock, so please set it correctly.
- The remote control data is reset when the present time is set.
- When the battery of the remote control is replaced or the ACL switch is pressed, the remote control is set to the initial state. Since the WEEKLY TIMER program is not set in the initial state, set the program according to the setting procedure.

AUTO mode operation

Automatically selects the operation mode (COOL, HEAT, DRY) depending on the room temperature when switched on.



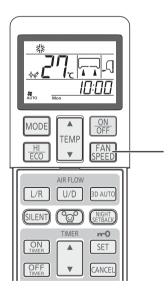
Temperature adjustment during AUTO

■ Air temperature adjustment is possible even during automatic operation. There are 6 levels of adjustment possible with the ▲ button or the ▼ button.During automatic operation, 24°C is preset both for heating and cooling.

	When a change in temperature is required.						
	Press the"▲ or ▼ (TEMP)" button.						
	When it is a little cold Press the ▲ button.						
MODE HI ECO	■ Each time the ▲ button is pressed, the switch over occurs in the following order $-6 \rightarrow -5 \rightarrow \dots \dots -1 \rightarrow \pm 0 \rightarrow \pm 1 \dots \pm 6$. When ± 6 is indicated, even if the ▲ button is pressed, the indicator does not change.						
	When it is a little hot Press the ▼ button.						
	■ Each time the ▼ button is pressed, the switch over occurs in the following order						
	$+6 \rightarrow +5 \rightarrow \dots +1 \rightarrow \pm 0 \rightarrow -1 \dots -6.$ When -6 is indicated, even if the ▼ button is pressed, the indicator does not change.						
	Remote Control display						
	Setting -6 -5 -4 -3 -2 -1 ±0 +1 +2 +3 +4 +5 +6 temp.(°C) 18 19 20 21 22 23 24 25 26 27 28 29 30						
CANCEL							

FAN SPEED

■ You can choose the capacity of your air-conditioner when heating mode, cooling mode or fan mode.

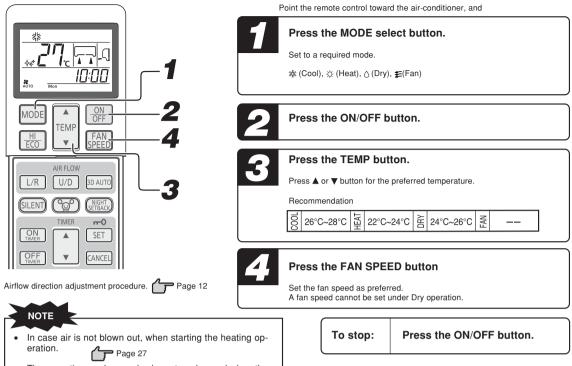


Operation capacity by your choice	FAN SPEED
Set automatically by microcomputer	AUTO
Silent operation	ULO
Energy-saving operation	LO
Standard operation	MED
Powerful operation with high capacity	HI



 When FANSPEED is changed from HI to LO or ULO, the sound of refrigerant flowing may be heard.

COOL/HEAT/DRY/FAN mode operation



 The operation mode can also be set or changed when the air-conditioner is not in operation.

Air-conditioner operable temperature setting

Use within the following operational range. Operating outside of this range may result in the protection devices being activated, preventing the unit from working.

	Cooling operation	Heating operation
Outside temperature	Approximately -15 to 46 °C	Approximately -15 to 24 °C
Inside temperature	Approximately 18 to 32 °C	Approximately 15 to 30 °C
Inside humidity	Below approximately 80% The long-term use of the unit with a humidity level exceeding 80% may result in condensation forming on the surface of the indoor unit, leading to water drips.	

Characteristics of HEAT mode operation

Mechanism and capacity of HEAT mode operation

Mechanism

- The unit draws heat from the cold outside air, transfers it to indoors and heats the room. As a characteristic of heat pump system, the heating capacity reduces when the outside air temperature gets colder.
- It may take some time to supply hot air after turning on the air-conditioner.
- If the outside temperature becomes extremely low, it would be better to use an additional source of heating.

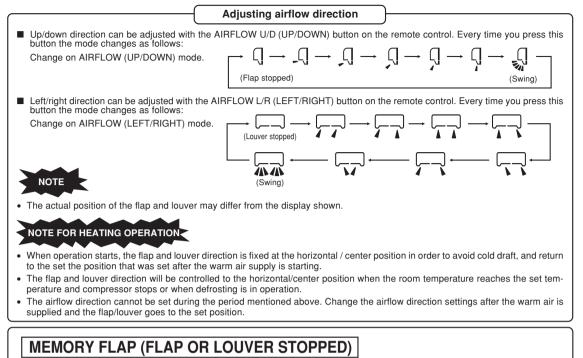
Defrosting

If the outside temperature becomes low and humidity is high, the heat exchanger in the outdoor unit may frost over, which prevents efficient heating.

If this happens, the automatic defrost function is activated and during defrosting the heating operation stops for 5 to 15 minutes during defrosting.

- Both indoor and outdoor fans stop and the RUN light blinks slowly (1.5 sec. ON, 0.5 sec. OFF) during defrosting.
- The outdoor unit may give off some steam during defrosting. This is to help the defrosting process and is not a defect.
- The HEAT operation resumes as soon as defrosting has been completed.

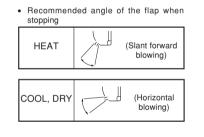
Airflow direction adjustment



When you press the AIRFLOW (U/D or L/R) button once while the flap or louver is operating, it stops swinging at the position. Since this angle is memorized in the microcomputer, the flap or louver will automatically be set at this angle when the next operation is started.

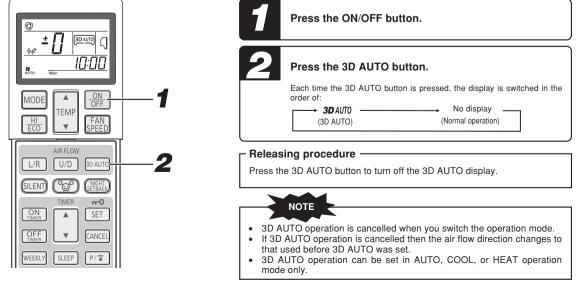
• Do not expose directory to airflow from the air-conditioner for a long time.

- When in COOL or DRY operation, do not operate for a long period with the airflow blowing straight down. Otherwise, condensation may appear on the outlet grill and drip down.
- Do not try to adjust the flaps and louvers by hand, as the control angle may change or the flap or louver may not be closed completely.



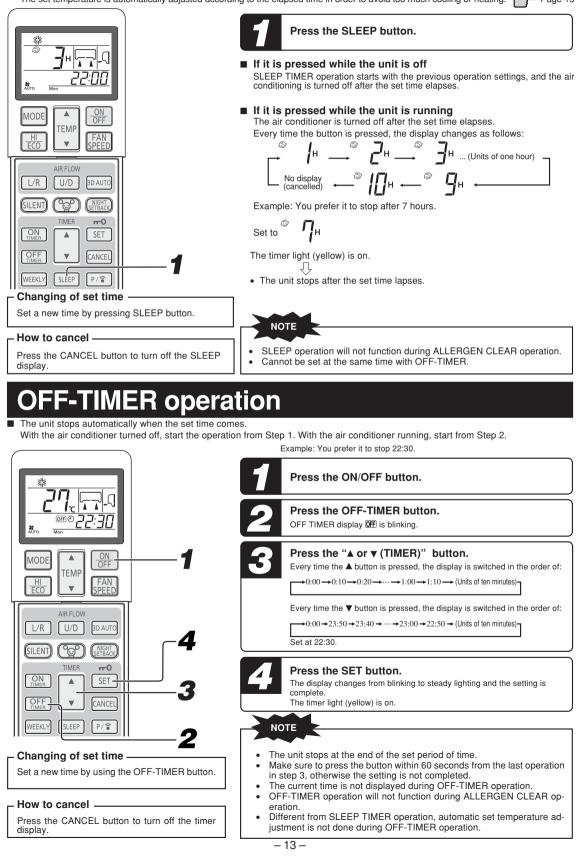
3D AUTO operation

Fan speed and air flow direction are automatically controlled, allowing the entire room to be efficiently conditioned.



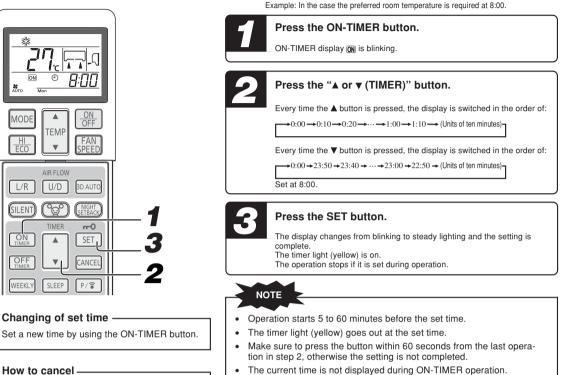
SLEEP TIMER operation

The unit stops automatically after the set time lapses. The set temperature is automatically adjusted according to the elapsed time in order to avoid too much cooling or heating. Page 15



ON-TIMER operation

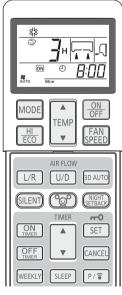
Operation starts 5 to 60 minutes before the set time so that the room temperature reaches the optimum temperature at the set time. Page 15 ON-TIMER operation can be set regardless of whether the air-conditioner is running or not.



Press the CANCEL button to turn off the timer • ON-TIMER operation will not function during ALLERGEN CLEAR operation.

SLEEP TIMER + ON-TIMER operation

Combined timer operation of SLEEP TIMER and ON-TIMER.



display.

- Changing of set time ______ Set a new time by using the SLEEP or ON-TIMER button. Example: When it is required to stop after 3 hours and then start operation at 8:00, near the set temperature.

SLEEP TIMER setting

Set by the procedures on page 13.



ON-TIMER operation setting

Set by the above procedure mentioned in ON-TIMER.

The setting of the lighting of the timer light (yellow) of this unit is complete.

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- After the SLEEP TIMER set time has elapsed, the operation stops, and it starts from 5 to 60 minutes before the ON-TIMER's set time.
- The timer light is turned off when ON-TIMER set time comes.

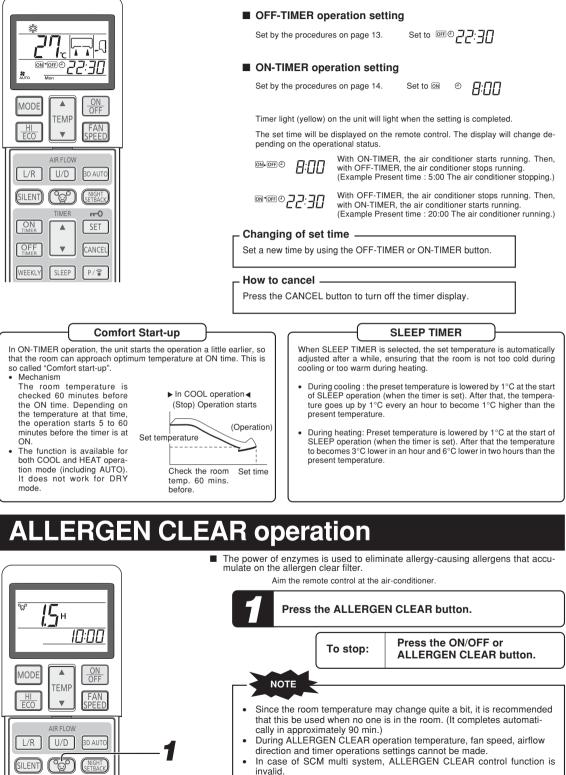
How to cancel -

Press the CANCEL button to turn off the timer display.

ON-TIMER + OFF-TIMER operation

The timer operations of the combination of ON and OFF-TIMER.

Example: When it is prefered to stop at 22:30, and then start operation at 8:00, near the set temperature.



 In case of SCM multi system, if ALLERGEN button is pressed by mistake, the indoor unit which received such command stops.

TIMER

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SET

WEEKLY TIMER operation

Up to 4 programs with timer operation (ON-TIMER / OFF-TIMER) are available for each day of the week. Max 28 programs per week are available. Once this has been set, the timer operation will be repeated at the same programs every week unless the WEEKLY TIMER is canceled.

Samp	le (At cooling	g season)					: V	VEEKLY TIMER setting
) : N	ANUAL setting
	6:00	8:00 10	:00 12	:00 14	:00 16	:00 18	:00 20	:00 22:00
Mon	Program 1 ON 6:00 Cool 2 Fan : A					Program 3 ON 17:00 Cool 28 Fan:Lo		Program 4 OFF 22:00
Tue	Program 1 ON 5:30 Cool 27°C Fan : AUTC	Change sett Auto 27 ⁶ Fan : Me			26°C	Program 3 ON 17:00 Cool 28 Fan : Lo		Program 4 OFF 22:00
Wed ~ Fri		On OFF Cool 28°C Fan: ULo	10:00 On	RY 25℃	Program 2 OFF 14:00	Progr ON 18		Program 4 OFF 22:00
Sat		Program 1 ON 7:30 Chan Cool 26°C Fan : Hi	ge setting Cool 25°C Fan : Hi	Program 2,3 No setting	3	Change sett Cool 28°C Fan: ULo	ing	Program 4 OFF 22:00
Sun		Program 2 ON 7:00 Cool 28°C Fan:Hi	Off	Program 1 ON 12:00 Cool 26°C Fan:Hi			Program 3 ON 19:00 Cool 27 Fan:UL	

WEEKLY TIMER ON/OFF setting

Switch the WEEKLY TIMER to ON/OFF by using the WEEKLY button.



Press the WEEKLY button.

The WEEKLY TIMER becomes effective.

Every time the WEEKLY button is pressed, the display is switched in the order of:

	→ No display
(WEEKLY TIMER on)	(WEEKLY TIMER off)

When the WEEKLY TIMER is set to ON, the timer light (yellow) of the air conditioner is on.

When the battery of the remote control is replaced or the ACL switch is pressed, the remote control is set to the initial state. Since the WEEKLY TIMER program is not set in the initial state, set the program according to the setting procedure.

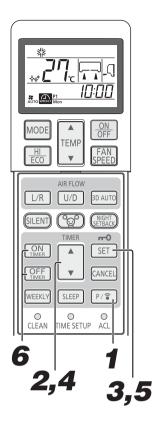


- The WEEKLY TIMER is switched to ON/OFF regardless of whether the air conditioner is running or not.
- The ON-TIMER operation of the WEEKLY TIMER is effective regardless of whether the air conditioner is running or not. When the ON-TIMER setting time is reached, the remote control operates according to the contents that are set. The remote control display is also switched to the operation contents that are set. The setting can be changed from the remote control after ON-TIMER operation of the WEEKLY TIMER.

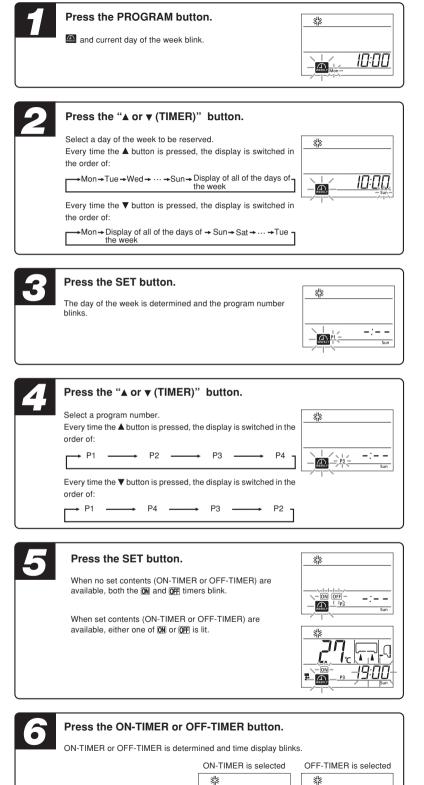
The following contents can be set by the ON-TIMER. Operation mode, fan speed, temperature, airflow direction, ECONOMY, 3D AUTO, NIGHT SETBACK, SILENT Comfort start-up is not performed for WEEKLY TIMER ON-TIMER operation.

- OFF-TIMER operation of the WEEKLY TIMER is effective only when the air conditioner is running. When the time set by the OFF-TIMER is reached, the air conditioner stops.
- When multiple program numbers are set for the current day (day of the week), the operation is performed from the earliest time that is set.
- When various timers (ON-TIMER, OFF-TIMER, and SLEEP TIMER) are operating, the WEEKLY TIMER does not operate even if the time set in the ON-TIMER or OFF-TIMER is reached. The WEEKLY TIMER becomes effective after various timers are terminated.
- The ON-TIMER or OFF-TIMER of the same time in the same day of the week cannot be set.

Setting mode <Individual setting>



Set after setting the current day of the week and the time.

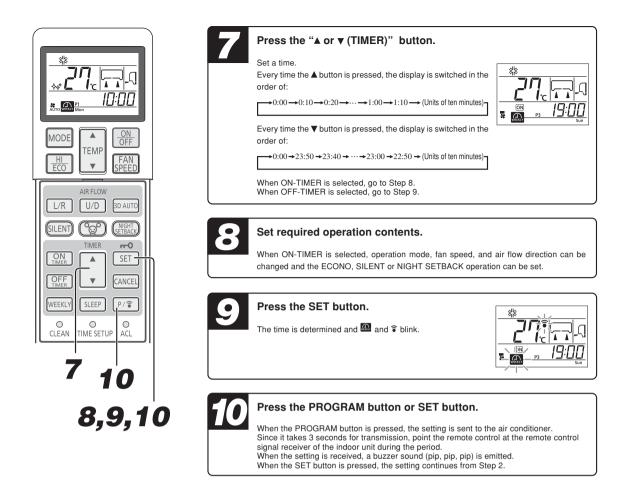


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- OFF

 - -:- -

Sun



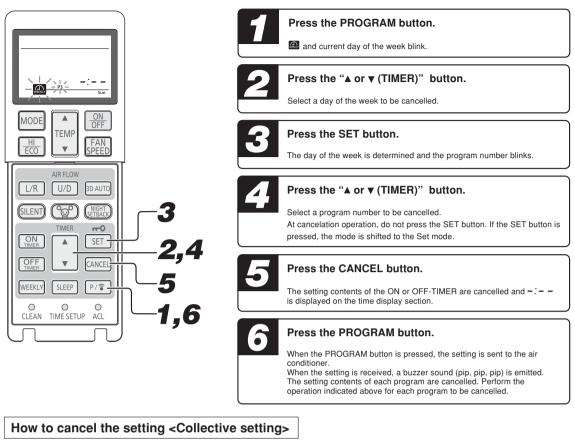
Setting mode <Collective setting>

Set the same operation contents to the same program number of all the days of the week. In Step 2 above, select "all of the days of the week". When the contents that were individually set exist in the same program number, the contents are overwritten.



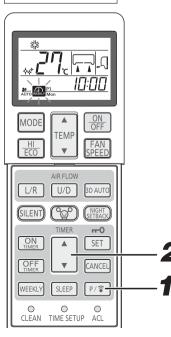
- If no operation is performed for 60 seconds in setting mode, the setting changes that have been made until then become invalid and the setting mode terminates. Subsequently, A and all the program numbers (P1, P2, P3 and P4) blink for 10 seconds.
- At the end of the setting mode, point the remote control at the air conditioner and press the PROGRAM button. In this case, check that the air conditioner emits a reception buzzer sound three times (pip, pip, pip). If the buzzer sound is not emitted, set the mode to the setting mode again by pressing the PROGRAM button and check that the buzzer sound is emitted.

How to cancel the setting <Individual setting>



When the same operation contents exist in the same program number of all the days of the week, collective erase is allowed. In Step 2 above, select "all of the days of the week". The procedure from Step 3 is the same as that indicated above. If the operation contents have been changed or erased by individual setting after the collective setting described in page 18, causing setting content discrepancies among the days of the week, collective erase is not allowed.

Confirm mode



The WEEKLY TIMER setting contents can be confirmed.

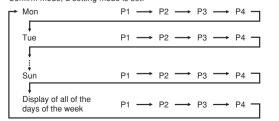
Press the PROGRAM button for 3 seconds or more.

blinks and the setting content lights.



Press the "▲ or ▼ (TIMER)" button.

Select a day of the week and a program number to be confirmed. Display starts from the current day of the week. For the program without setting, -: - is displayed. When the PROGRAM button is pressed in Confirm mode, a setting mode is set.



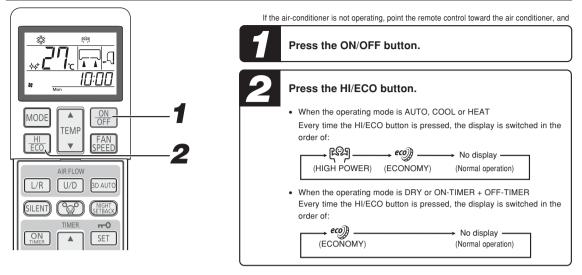
Releasing procedure -

The Confirm mode can be terminated by pressing the ON/OFF, CANCEL or SET button.



If no operation is performed for 60 seconds in Confirm mode, the Confirm mode is terminated.

HIGH POWER/ECONOMY operation



- Concerning HIGH POWER operation

Pressing the HI/ECO button intensifies the operating power and initiates powerful cooling or heating operation for 15 minutes continuously. The remote control for displays and the FAN SPEED display disappears.



- During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling or heating,press the HI/ECO button again to cancel the HIGH POWER operation.
- HIGH POWER operation is not available during the DRY and ON-TIMER + OFF-TIMER operations.
- When HIGH POWER operation is set after setting ON-TIMER operation, HIGH POWER operation will start from the set time.
- Not operable while the air conditioner is OFF.
- After HIGH POWER operation, the sound of refrigerant flowing may be heard.

- Concerning ECONOMY operation

Pressing the HI/ECO button initiates a soft operation with the power suppressed in order to avoid an excessive cooling or heating. The unit operates 1.5°C higher than the setting temperature during cooling or 2.5°C lower than that during heating. The remote control of displays and the FAN SPEED display disappears.

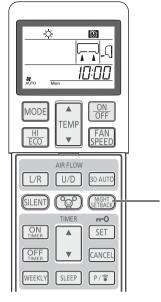


- It will go into ECONOMY operation at the next time the airconditioner runs in the following case.
 - ① When the air-conditioner is stopped by ON/OFF button during ECONOMY operation.
 - 2 When the air-conditioner is stopped in SLEEP or OFF TIMER operation during ECONOMY operation.
 - ③ When the operation is retrieved from CLEAN or AL-LERGEN CLEAR operation.
- When the following operations are set, ECONOMY operation will be canceled.
 - ① When the HI/ECO button is pressed again.
 - (2) When the operation mode is changed DRY to FAN.
- ③ When the NIGHT SETBACK button is pressed.
- Not operable while the air conditioner is OFF.

- When the following operations are set, HIGH POWER operation will be canceled.
 ① When the HI/ECO button is pressed again.
 - 2 When the operation mode is changed.
 - ③ When it has been 15 min. since HIGH POWER operation has started.
 - ④ When the 3D AUTO button is pressed.
 - 5 When the SILENT button is pressed.
 - 6 When the NIGHT SETBACK button is pressed.

NIGHT SETBACK operation

During the cold season, the room temperature can be maintained at a comfortable level during the absence, at night, and while the room is unattended. The air conditioner maintains the constant temperature at about 10°C.





Press the NIGHT SETBACK button.

Every time the NIGHT SETBACK button is pressed, the display is switched in the order of:

(NIGHT SETBACK on)

→ No display (NIGHT SETBACK off)

- Releasing procedure -

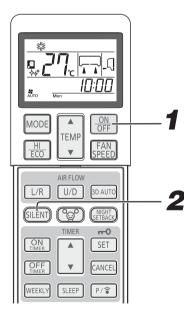
Press the NIGHT SETBACK button or MODE button to turn off the NIGHT SETBACK display.



- During NIGHT SETBACK operation, the air conditioner maintains the set temperature at about 10°C.
- During NIGHT SETBACK operation, temperature settings cannot be made.
- Since the room temperature may change quite a bit, it is recommended that this be used when no one is in the room.
- During NIGHT SETBACK operation, none of HIGH POWER and ECONOMY operations can be set.
- When NIGHT SETBACK operation is cancelled by pressing the NIGHT SETBACK button, the operation mode is reset to the mode immediately prior to the NIGHT SETBACK operation.

SILENT operation

When the SILENT operation is set, the unit operates more silently reducing noise from the outdoor unit.

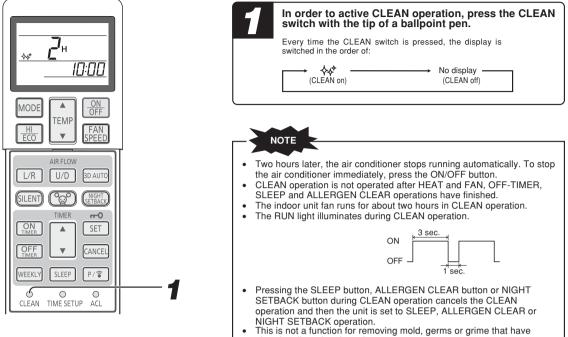


If the air-conditioner is not operating, point the remote control toward the air conditioner, and Press the ON/OFF button. Press the SILENT button. When the operating mode is AUTO, COOL, HEAT or NIGHT SETBACK Every time the SILENT button is pressed, the display is switched in the order of: F. No display (SILENT on) (SILENT off) Releasing procedure -Press the SILENT button to turn off the SILENT display. NOTE During SILENT operation, the maximum cooling and heating capacities deteriorate. SILENT operation will not function during DRY and FAN operation. It will go into SILENT operation at the next time the air-conditioner runs in the following case. 1) When the air-conditioner is stopped by ON/OFF button during SILENT operation. 2 When the air-conditioner is stopped in SLEEP or OFF-TIMER op-

- When the air-conditioner is stopped in SLEEP of OFF-TIMER op eration during SILENT operation.
 When the operation is retrieved from CLEAN or ALLERGEN
- CLEAR operation.
- Not operable while the air conditioner is OFF.
- The noise level of the outdoor unit may not decrease depending on the condition.

SELF CLEAN operation

CLEAN operation should be run after AUTO, COOL and DRY operation to remove the moisture from inside the indoor unit and control the growth of mold and bacteria.



already adhered to the unit.

Auto restart function

What is auto restart function?

- Auto restart function records the operational status of the air-conditioner immediately prior to be switched off by a power cut, and then
 automatically resumes operations after the power has been restored.
- The following settings will be cancelled:
- ① Timer settings
- 2 HIGH POWER operations



- Auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off.
- When power failure occurs, the timer setting is cancelled. Once power is resumed, set the timer again.

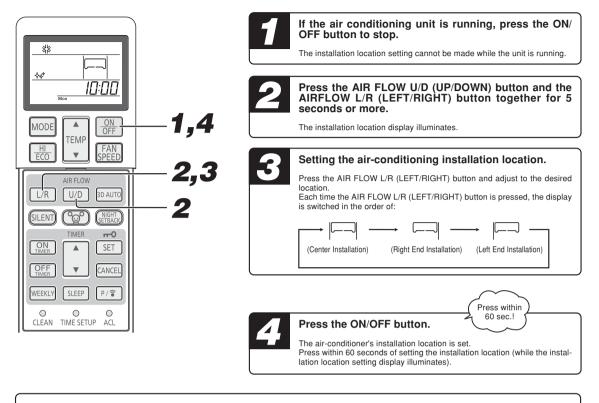
Tips for effective operation

Please observe the following for the most economic and comfortable use of your unit.

Set a suitable room temperature.	Clean the filters frequently.	Avoid direct sunlight and draught.
Excessively high or low temperatures are not good for your health and waste of electricity.	Clogged filters may block the airflow and cause less efficient operation.	Cut out direct sunlight by drawing the curtains or blinds when cooling. Keep windows and doors shut, except when ventilating.
Adjust the airflow direction properly.	Operate the unit only when needed.	Keep heat source away when cooling.
Adjust the up/down and left/right airflow to ensure a steady room temperature.	Use the timer properly to operate the unit only when needed.	Keep heat sources out of the room as much as possible.

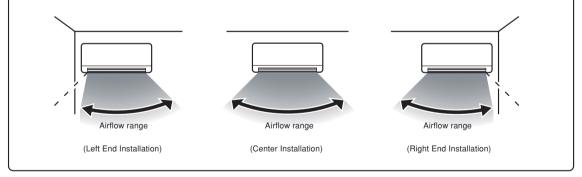
Installation location setting

Take the air conditioning unit's location into account and adjust the left/right airflow range to maximize air-conditioning.



Air conditioner installation location and airflow range

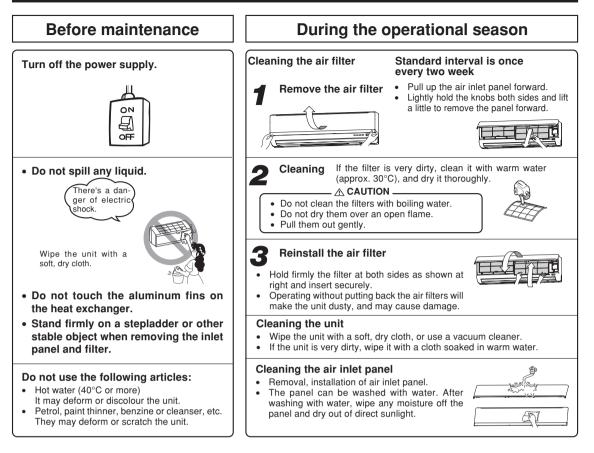
The diagram below indicates the airflow ranges corresponding to the air-conditioner's installation location. Consider your room's layout and set the airflow range to maximize conditioning effectiveness.



NOTE

- Once the installation location setting is configured, the installation location setting is stored in the air conditioner even if the power supply is turned off. To change the installation location setting, set a location again with the remote control.
 During the operation, an installation location cannot be set.
- When the air conditioner is installed at the location within 50 cm from the wall, it is recommended to change the location to "Right End Installation" or "Left End Installation".

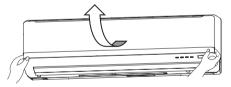
Maintenance



How to open, close the air inlet panel

Open

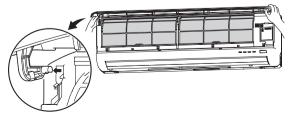
Place fingers at the recesses on both sides of the panel and pull up the panel forward so that it will be open by about 60 degrees.



Removal, installation of air inlet panel

Removal

When removing the air inlet panel for internal cleaning or others, open the panel by 80 degrees and then pull it forward.



Close

Push both ends evenly and press further lightly at the center.

Installation

Secure the upper edge of the air inlet panel by lightly pushing it in, and then close the panel.





Filter holder

Filter

	At the end of the season	At the beginning of the season	
1	Perform the fan operation for 2 to 3 hours. Dry the inside of the unit.	1 Ensure that the earth wiring is not snapper nor disconnected.	
		2 Check if there is no corrosion or rust on the base frame of the outdoor unit.	
2	Stop the unit and turn off the power supply. The unit consumes approx. 4W even when the unit is not operat- ing. Turning off the power supply will help saving energy consumption and cost.	3 Make sure that there are no obstacles block ing the airflow around the air intake and outle openings of the indoor and outdoor units.	
3	Clean and reinstall the air filters.	4 Ensure that the air filters are clean.	
4	Clean both the indoor and outdoor units.	5 Turn on the power supply.	
5	Remove batteries from the remote control.	6 Insert batteries in the remote control.	

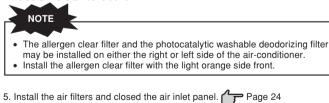
- 1. Open the air inlet panel and remove the air filters.
- 2. Remove the filter holders, with the air-cleaning filter installed in the folders, from the air-conditioner.
- 3. Remove the allergen clear filter (Light orange) from filter holder and inspect the filter. Use a vacuum cleaner to remove any dust or dirt from the allergen clear filter. Replace the allergen clear filter if it cannot be cleaned or if it has been for about 1 year.

(The allergen clear filter should be replaced after about 1 year of use. However, the actual replacement period may vary depending on the conditions in which the filter is used.)

Remove the photocatalytic washable deodorizing filter (orange) from the filter holder and inspect the filter. Periodically, remove any dust or dirt from the photocatalytic washable deodorizing filter. If the photocatalytic washable deodorizing filter is particularly dirt, it may be washed with water. However, the filter is fragile so be sure to wash it installed in the filter holder to avoid damaging it. After washing the filter, place it in sunlight to dry. Placing the filter in sunlight revitalizes the deodorizing effect.

(Do not dispose of the filter holders. They are reusable.)

4. Install the air-cleaning filter in the filter holders, and then install the filter holders in the air-conditioner.



- The heat exchanger may injure your fingers.

For replacement the air-cleaning filter, contact your dealer.

Item	Feature	Color
Allergen clear filter	The power of enzyme is used to eliminate allergy-caus- ing allergens that accumulate on the filter.	Light orange
	Sources of odors on the filter are broken up, resulting in a deodorizing effect.	Orange

Proper installation

Suitable installation position

- Do not put any obstruction in front of the indoor unit, preventing proper ventilation and functioning.
- Do not install the unit in any of the following places:
 - Where there is a danger of leaking flammable gases.
 - Where there is substantial splashing of oil.
- Malfunctioning due to corrosion may occur if the unit is installed in a spa where sulfide gases are generated, or in a seaside resort exposed to sea breezes. Contact your dealer.
- The air-conditioner and remote control must be at least 1 metre away from a TV set or radio.
- Drain the dehumidified liquid from the indoor unit into a spot that drains well.

Pay attention to operating noises!

- When you install the unit, take care to choose a place that can comfortably stand the weight of the unit and does not increase the
 operating noise or vibration. If vibration is transmitted through the house, fix the unit with the aid of vibration-proof pads between
 the unit and the fittings.
- Select a place where cold or hot air, operation noises from the indoor and outdoor units do not cause any inconvenience to your neighbours.
- Do not leave any obstacles near the outlet and inlet of the outdoor unit. This may cause malfunctioning and increased operating noise.
- · If you hear an irregular noise during operation, contact your dealer.

Inspection and maintenance

Depending on operating environment, the inside of the air-conditioner may become dirty after a few year operations. This will reduce performance. In addition to normal cleaning, we would recommend inspection and maintenance. (This may lead the air-conditioner to having a longer life without any trouble.)

- Contact your dealer, or any distributor, for inspection and maintenance. (There will be a charge for this service).
- We would recommend inspection and maintenance to be carried out during the off-season.
- If the supply cord of this appliance is damaged, it must only be replaced by a repair shop appointed by the manufacturer, because special purpose tools are required.

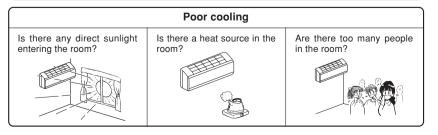
Troubleshooting

Please carry out the following checks before making a service call.



If the air-conditioner does not operate properly after you have checked the left points, or if any doubt still exists after you have consulted page 27, or if things happen as shown on page 28, switch off the power and contact your dealer.





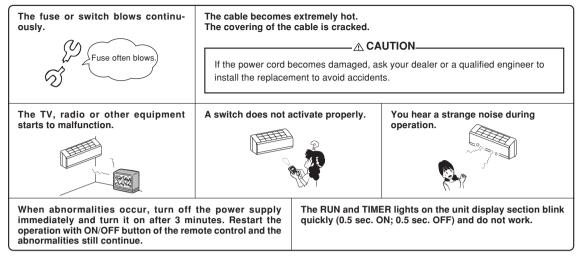
An alternative refrigerant (R410A) is used in this air-conditioner. When asking your dealer for service or inspection and maintenance, explain the dealer about it.

Notice

The unit does not restart immediately after you have	Restart is blocked for 3 minutes after you have stopped the op-
stopped it.	eration to protect the unit.
(RUN light is on)	Please wait for three minutes.
? ?	The three-minute protection timer in the microcomputer auto- matically starts it up again.
Airflow is not blown out when starting the HEATING opera- tion. RUN light blinks slowly (1.5 sec ON, 0.5 sec OFF)	Airflow has stopped to prevent blowing out of cold air until the indoor heat exchanger has warmed up. (2 to 5 min.) (HOT KEEP program)
Airflow is not blown out for 5 to 15 min. or blown out not warm wind for a moment at HEATING operation. RUN light blinks slowly (1.5 sec ON, 0.5 sec OFF)	When outdoor temperature is low and humidity is high, the unit sometimes performs defrosting automatically. Please wait. Dur- ing defrosting, water or steam may escape from the outdoor unit.
Airflow is not blown out when starting the DRY operation. (RUN light is on)	The indoor fan may stop to prevent re-evaporation of dehumified moisture and to save energy.
Some steam escapes during COOL operation.	This may occur if the room's temperature and humidity are very high. It disappears as soon as the temperature and humidity decrease.
There is a slight smell.	Air blown out during operation may smell. This is caused by tobacco or cosmetics adhering to the unit.
You hear a slight gurgling sound.	This is caused by refrigerating liquid moving within the unit.
You hear a slight cracking sound.	This is caused by heat expansion or contraction.
You hear a hissing or clicking sound.	This is caused by the operation of the refrigerant control valves or electric components.
After a power cut, the unit does not restart even if power has been restored.	If the auto restart function is not set, the unit will not restart automatically. Use the remote control to start the operation again.
Remote control signals are not received.	Remote control signals may not be received if the signal receiver on the air-conditioner is exposed to direct sunlight or other bright light. If so, cut out the sunlight or reduce the other light.
Moisture may form on the air outlet grills.	If the unit is operated for a long time in high humidity, moisture may form on the air outlet grills and start dripping.
Whistling noise is heard from the outdoor unit.	The noise means that the revolution speed of the compressor is increasing or decreasing.
Fan will not stop immediately after unit operation was stopped.	Indoor fan : Fan will not stop after 2 hours if set to CLEAN operation. Outdoor fan : Fan will not stop about a 1 minute period in order to protect the unit.
RUN light stays on even though operation was stopped.	The RUN light illuminates during CLEAN operation. Run light turns off when CLEAN operation ends.
Sometimes a "Shooooo" sound might come for a short time from the unit that is turned off.	This is the sound when operation of another indoor unit is stopped.

Contact your dealer

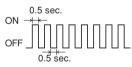
Turn off the power switch immediately and inform your dealer in any of the following situations:



About the Multiple Air-conditioner

Simultaneous Operation

- The air-conditioners cannot be in different operating modes at the same time, such as one unit being in the "Cool" mode and one unit being in the "Heat" mode.
- When conducting different operations, the air-conditioner that was operated first will be given priority, so the air-conditioner that is
 operated after that will conduct air blowing operation.
- When you want to give priority to the air-conditioner that was started later, either stop the air-conditioner that has priority or cause the operation type of the unit operated first to match that of the unit operated second.
- · When other indoor units are operating in different modes, the RUN light illuminates.



Automatic Operation

- When the remote control operation switch is in the "Auto" mode the air-conditioner automatically selects either "Cool," "Dry," or "Heat" when operation is started depending on the room temperature.
- During simultaneous operation of air-conditioner units, operation modes may be automatically changed in response to the temperatures of the individual rooms; this will result in the operation of the outdoor unit being stopped. In such a case, COOL or HEAT mode should be used instead of AUTO. (This is only relevant when more than one air-conditioner unit is being used.)

Refrigerant (oil) recovery operation

If the all of the indoor units are not operated at the same time for an extended period, the cooling or heating performance may
temporarily decrease. This is in order to control the recovery of the refrigerant (oil) in the stopped indoor unit(s). At this time, the
sound of refrigerant flowing may be heard from the stopped indoor unit(s).

Self diagnosis function

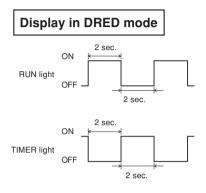
We are constantly trying to do better service to our customers by installing such judges that show abnormality of each function as follows:

	(Description of trouble	Cause
	1-time flash	Heat exchanger sensor 1 error	Broken heat exchanger sensor 1 wire, poor connector connection
	2-time flash	- Room temperature sensor error	Broken room temperature sensor wire, poor connector connection
[]	3-time flash	- Heat exchanger sensor 3 error	Broken heat exchanger sensor 3 wire, poor connector connection
TIMER light ON	5-time flash	- Active filter voltage error	Defective power supply
	6-time flash	- Indoor fan motor error	Defective fan motor, poor connector connection
	7-time flash	Refrigerant is insufficient Closed service valve Heat exchanger sensor 1 error	Refrigerant is insufficient, leaking Closed serice valve Broken heat exchanger sensor 1 wire, poor connector connection
	TIMER light		
	1-time flash	Outdoor temperature sensor error	Broken outdoor sensor wire, poor connector connection
DUN Faltheres (lashian	2-time flash	Outdoor heat exchanger fluid pipe sensor error	Broken heat exchanger fluid pipe sensor wire, poor connector connection
RUN light keeps flashing	4-time flash	Discharge pipe sensor error	Broken discharge pipe sensor wire, poor connector connection.
	5-time flash	Suction pipe sensor error	Broken suction pipe sensor wire, poor connector connection
	1-time flash	Current cut	Compressor locking, open phase on compressor output, shortcircuit on power transistor, closed service valve
	2-time flash	- Trouble of outdoor unit	Broken power transistor, broken compressor wire Broken discharge pipe sensor wire, poor connector connection Compressor blockage
	3-time flash	Over current	Overload operation, overcharge
DUN Frida ON	4-time flash	Power transistor error	Broken power transistor
RUN light ON	5-time flash	Over heat of compressor	Gas shortage, defective discharge pipe sensor, closed service valve
	6-time flash	Error of signal transmission	Defective power supply, Broken signal wire, defective in/outdoor unit boards
	7-time flash	Outdoor fan motor error	Defective fan motor, poor connector connection
	Keep flashing	Cooling high pressure protection	Gas over charge, short circuit of outdoor unit
RUN light 2-time flash	2-time flash	- Rotor lock	Defective compressor Open phase on compressor Defective outdoor unit boards
RUN light 7-time flash	1-time flash	Closed service valve	Closed serice valve

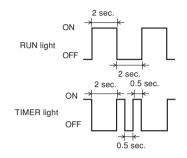
DRED

This air conditioner complies with the DRED (Demand Response Enabling Devices) standard AS/NZS4755.3.1 and supports demand response modes 1, 2, and 3 (DRM1, 2, and 3). Since the air conditioner limits the electric power or energy by receiving the DRED input signal, the sense of cooling operation or heating operation may deteriorate over time. The outdoor unit of this air conditioner is equipped with a terminal block for DRED input and supports ELV (Extra-Low Voltage) complying with AS/NZS60335.1.

Under DRED mode, RUN light and TIMER light blink alternately as shown. When the Defrost function becomes effective during DRED operation, the TIMER light blinks quickly.



Display in DRED mode during Defrost operation



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