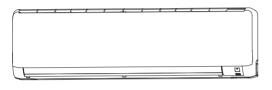
# **USER'S MANUAL**



# **AIR-CONDITIONER**



SRK24YRA-W

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 R32 into the atmosphere: R32 is a fluorinated greenhouse gas, covered by the Kyoto Protocol with a Global Warming Potential (GWP) = 675.



Your Air Conditioning product may be marked with this symbol. It means that waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) 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 safely. If someone else takes over as operator, make sure that the manual is also passed on to the new operator.

<b>△WARNING</b>	Improper handling could lead to drastic results like death, serious injury, etc.
<b>△</b> CAUTION	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:

$\Diamond$	Strictly prohibited		Observe instructions with great care		Provide proper earthing
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# ■ Safety precautions in handling air conditioners with flammable refrigerants

This equipment uses flammable refrigerants. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.	There is information included in the user's manual and/or installation manual.
The user's manual should be read carefully.	A service personnel should be handing this equipment with reference to the installation manual.

### **AWARNING**

- Strict compliance of the domestic laws must be observed when disposing the appliance.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- Do not pierce or burn.

- Be aware that refrigerants may not contain an odour.
- The appliance shall be stored in a wellventilated area where the room size corresponds to the room area as specified for operation.
- The staff in servicing operations must hold the national qualification or other relevant qualifications.
- The indoor unit shall be stored in a room that has a minimum area of 8.6m<sup>2</sup>.

#### **INSTALLATION PRECAUTIONS**

### **AWARNING**



• The system is for domestic and residential use.

If used in severe 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.

### **ACAUTION**



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



• Depending on the place of installation, • Make sure to install the drain hose an earth leakage breaker may be necessary.

If you do not install an earth leakage breaker, you may get an electric shock. 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. Improper installation of the earth cable may produce an electric shock.

#### **I OPERATION PRECAUTIONS**

### **MARNING**



- Children shall not play with the appliance.
- Do not expose yourself to the cooling air for a long period.

This could affect your physical condition and cause health problems.

- Cleaning and user maintenance shall not be made by children without supervision.
- Do not insert anything into the air outlet.

This may cause injury, as the internal fan rotates at high speed.



- This appliance can be used by children aged from 8 years and above and people
  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.
- Store the remote control out of reach of infants.

Failure to observe this may result in the batteries being swallowed or other accidents.

### **ACAUTION**



- 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 air-conditioner.

The appliance may then work inadequately.

 Do not wash the air-conditioner with water.

This could cause an electric shock. Using a high pressure washer may cause damage to the aluminum fins, resulting in performance decrement.  Do not use for 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.

### **ACAUTION**



• Do not touch the aluminum fins on the • Do not shut off the power source 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.

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.

• Do not pour liquid into this unit and do not put water container on this unit. Water entering the unit could damage the insulation and therefore cause an electric shock.



• If you operate the system together with • Contact your dealer to clean inside the 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 source. 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.

indoor unit, do not attempt to do by vourself.

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.

• If the power cord becomes damaged, contact your dealer or a qualified engineer.

If it is not replaced, it may cause a breakdown or fire.

#### **■PRECAUTIONS FOR RELOCATION OR REPAIRS**

### **AWARNING**



• Do not perform any repairs or modifications by yourself. Consult the dealer if the unit requires repair.

If you repair or modify the unit, it can cause water leaks, electric shocks or fire.



- 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 source and consult your dealer.

Continued use of the system in abnormal circumstances may result in malfunctioning, electric shock, fire, etc.

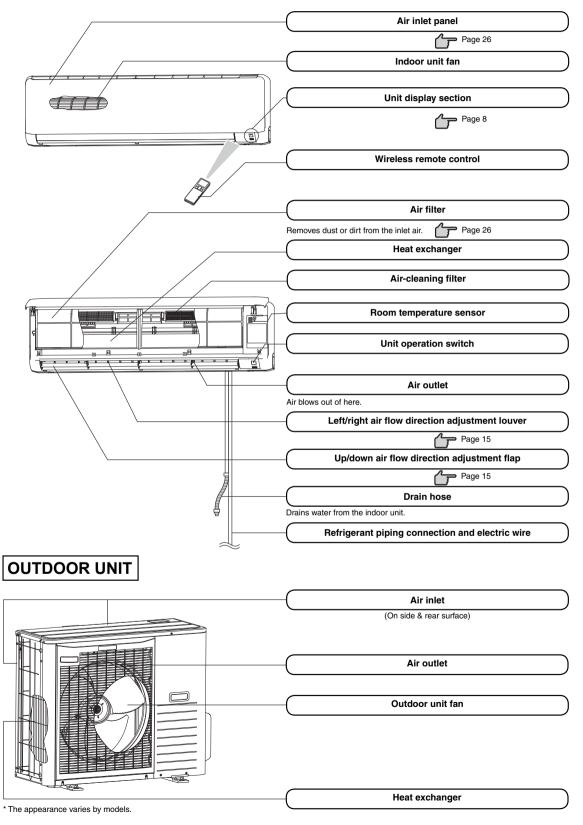
 If the air-conditioner fails to cool or warm the room, it may have a refrigerant leakage. Contact your dealer.

If refrigerant needs to be added, check with your dealer for proper instructions.

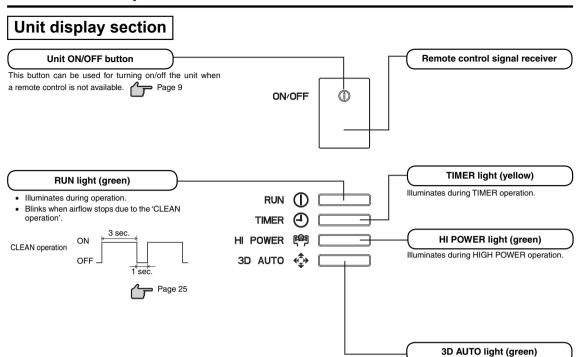
If the refrigerant comes in contact with the bare skin, it may cause cold injury. If the refrigerant gas is inhaled excessively, it may cause deterioration of nerve function like dizziness and headache, or deterioration of heart function like irregular heartbeat and heart palpitation temporarily. If 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

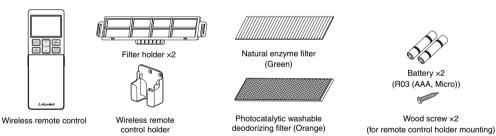
### **INDOOR UNIT**



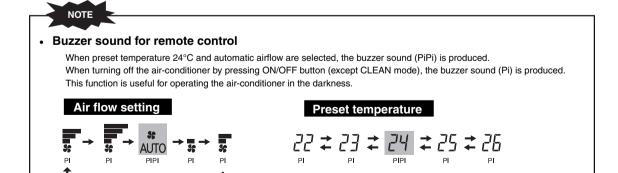
### Name of each part and its function



#### **Accessories**



Illuminates during 3D AUTO operation.

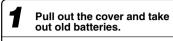


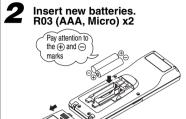
# Remote control handling

### Replacing the batteries

The following cases show exhausted batteries. Replace old batteries with new ones.

- Receiving beep is not emitted when a signal is transmitted.
- Display fades away





Close the cover.

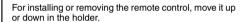
Press the ACL switch with the tip of a ballpoint pen.

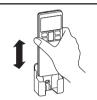


- Do not use old and new batteries together.
- Remove the batteries when the remote control is not used for a long period.
- The recommended effective period of a battery conforming to JIS or IEC should be 6 to 12 months with normal use. If used longer, or when an unspecified battery is used, liquid 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 manufacturing 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.





### Warning note for remote control handling

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

# Operation failure with the remote control

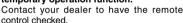
Are the batteries running down?



"Replacing the batteries" above.

Replace the batteries with new ones and retry the

If the operation fails, operate the unit with temporary operation function.





Below

# Temporary run operation

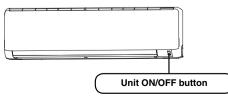
The unit ON/OFF button on the unit operates ON/OFF temporarily when the remote control is not used.

Operation program

OPERATION MODE : COOL FAN SPEED **AUTO** 

AIR FLOW **AUTO** 

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





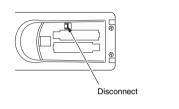
Do not hold the Unit ON/OFF button down for more than 5 seconds. (Holding it down longer than 5 seconds sets the automatic cooling used during servicing or when relocating the air-conditioner.)

# 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.

### Setting the remote control

- Pull out the cover and take out batteries.
- 2 Disconnect the switching line next to the battery with wire cutters.

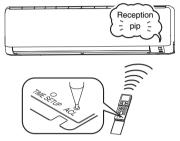


3 Insert batteries. Close the cover.

### Setting an indoor unit

- Turn off the power source and turn it on after 1 minute.
- Point the remote control that was set according to the procedure described on the left side at the indoor unit and send a signal by pressing the ACL switch on the remote control.

Since the signal is sent in about 6 seconds after the ACL switch is pressed, point the remote control at the indoor unit for some time

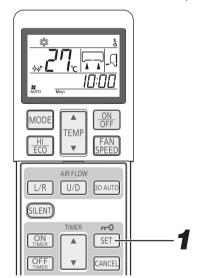


Check that the reception buzzer sound "pip" is emitted from the indoor unit.

At completion of the setting, the indoor unit emits a buzzer sound "pip". (If no reception tone is emitted, start the setting from the beginning again.)

## **Child Lock**

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



1

#### Press the SET button for 3 seconds or longer.

is displayed. While Child Lock is set, only the ON/OFF button can be operated.

#### Releasing procedure -

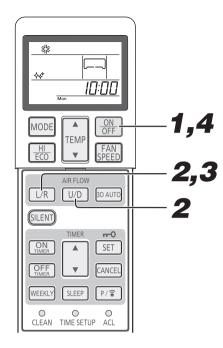
Turn off the light  $\frac{3}{2}$  by pressing the SET button for 3 seconds or longer.

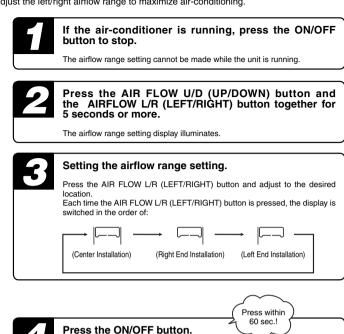


 While Child Lock is set, the settings of temperature, fan speed and airflow direction cannot be changed. To change the settings, reset Child Lock.

# Airflow range setting

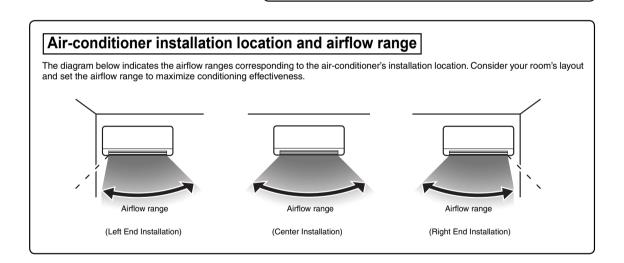
■ Take the air-conditioner location into account and adjust the left/right airflow range to maximize air-conditioning.





The air-conditioner's airflow range setting is set. Press within 60 seconds of setting the airflow range setting (while the airflow

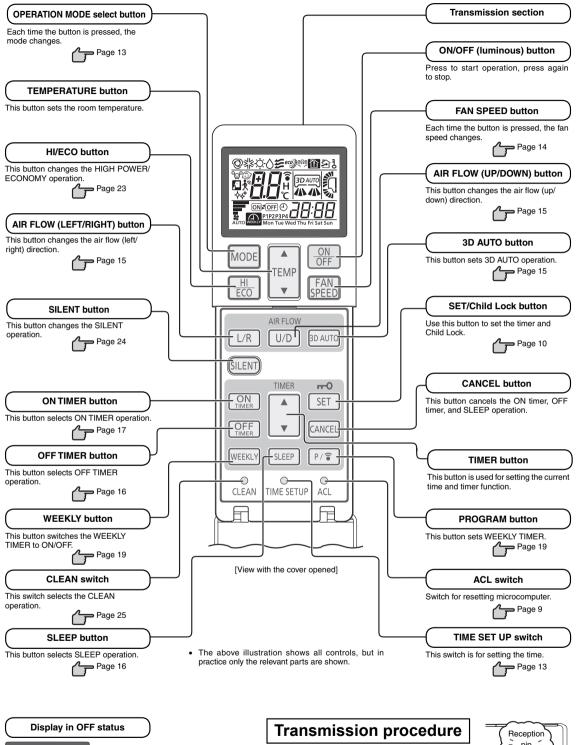
range setting display illuminates).





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

# Operation and display section for remote control





The current time, day of the week, and present OPERATING MODE are displayed while the air-conditioner is turned off.

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.

MODE TEMF L/R U/D 3D AUTO SILENT TIMER г-0 ON SET OFF CANCEL WEEKLY SLEEP P/**ௐ** P TIME SETUP CLEAN ΔCI

#### Press the TIME SET UP switch.

Press with the tip of a ballpoint pen, etc.

The day of the week display blinks, enabling the setting of a day of the week.

2

Press the "▲ or ▼ (TIMER)" button.

(Set to Sa

3

#### Press the SET button.

The day of the week display changes from blinking to steady lighting, completing the setting of a day of the week, and the time display blinks. Make sure to press the button within 60 seconds from the last operation in step 2, otherwise the day of the week is not set.

4

Press the "▲ or ▼ (TIMER)" button.

(Set to 10:30)

5

#### Press the SET button.

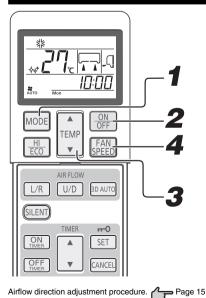
The time display changes from blinking to steady lighting and the setting is complete

Make sure to press the button within 60 seconds from the last operation in step 4, otherwise the time is not set.

## NOTE

- 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.

# **COOL/DRY/FAN mode operation**



57

#### Press the MODE button.

Set to a required mode.

※(Cool), △(Dry), 差(Fan)

2

Press the ON/OFF button.

3

#### Press the TEMP button.

Press ▲ or ▼ button for the preferred temperature.

Recommendation

| S | 26°C~28°C | 놈 24°C~26°C | 된 ---

4

#### Press the FAN SPEED button

Set the fan speed as preferred. A fan speed cannot be set under Dry operation.

NOTE

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

Press the ON/OFF button.

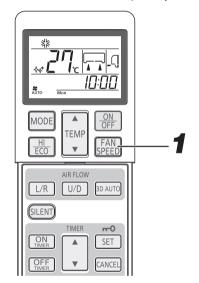
# Air-conditioner operable temperature setting

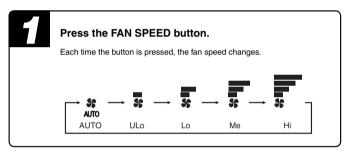
■ Use within the following operational range. Operating outside of this range may result in the protection devices being activated, preventing the unit from working.

	Cooling operation
Outside temperature Approximately -15 to 46 °C	
Inside temperature	Approximately 18 to 32 °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 drops.

## **FAN SPEED**

■ You can choose the fan speed of your air-conditioner without dry mode.





Operation capacity by your choice	FAN SPEED
Set automatically by microcomputer	AUTO
Silent operation	ULo
Energy-saving operation	Lo
Standard operation	Me
Powerful operation with high capacity	Hi



 When FAN SPEED is changed from Hi to Lo or ULo, the sound of refrigerant flowing may be heard.

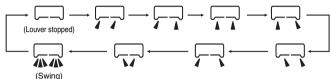
# Airflow direction adjustment

■ Up/down direction can be adjusted with the AIRFLOW U/D(UP/DOWN) button on the remote control. Every time you press this button the mode changes as follows:

Change on AIRFLOW (UP/DOWN) mode.

■ Left/right direction can be adjusted with the AIRFLOW L/R (LEFT/RIGHT) button on the remote control. Every time you press this button the mode changes as follows:

Change on AIRFLOW (LEFT/RIGHT) mode.





• The actual position of the flap and louver may differ from the display shown.

### **MEMORY FLAP (FLAP OR LOUVER STOPPED)**

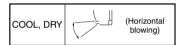
When you press the AIRFLOW (U/D or L/R) button once while the flap or louver is operating, it stops swinging at the position. Since this angle is memorized in the microcomputer, the flap or louver will automatically be set at this angle when the next operation is started.

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

- ACAUTION -

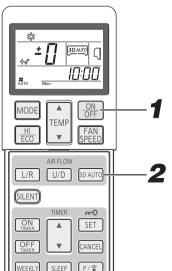
- When in COOL or DRY operation, do not operate for a long period with the airflow blowing straight down. Otherwise, condensation may appear on the outlet grill and drip down.
- Do not try to adjust the flaps and louvers by hand, as the control angle may change or the flap or louver may not be closed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

 Recommended angle of the flap when stopping



# 3D AUTO operation

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



Press the ON/OFF button.

Press the 3D AUTO button.

Each time the 3D AUTO button is pressed, the display is switched in the order of:

3D AUTO No display —

(3D AUTO) (Normal operation)

Releasing procedure

Press the 3D AUTO button to turn off the 3D AUTO display.



- 3D AUTO operation is canceled when you switch the operation mode.
- If 3D AUTO operation is cancelled then the air flow direction changes to that used before 3D AUTO was set.
- 3D AUTO operation can be set in COOL operation mode only.

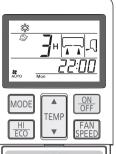
# **SLEEP TIMER operation**

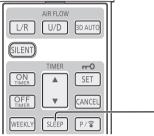
■ The unit will stop automatically after the set time lapses.

The set temperature is automatically adjusted according to the lapse time in order to avoid too much cooling.



Page 1





Changing of set time

Set a new time by pressing SLEEP button.

## How to cancel -

Press the CANCEL button to turn off the SLEEP display.

1

Press the SLEEP button.

#### ■ If it is pressed while the unit is off

SLEEP TIMER operation starts with the previous operation settings, and the air-conditioner is turned off after the set time lapses.

#### ■ If it is pressed while the unit is running

The air-conditioner is turned off after the set time lapses.

Every time the button is pressed, the display changes as follows:

Example: You prefer it to stop after 7 hours.

The timer light (yellow) is on.



• The unit stops after the set time lapses.

## NOTE

Cannot be set at the same time with OFF-TIMER.

# **OFF-TIMER** operation

■ The unit stops automatically when the set time comes.

With the air-conditioner turned off, start the operation from Step 1. With the air-conditioner running, start from Step 2.

MODE A ON OFF TEMP FAN SPEED

AIR FLOW

L/R U/D 3D AUTO

SILENT

TIMER

OFF

ANCEL

WEEKLY SLEEP P/®

2

Changing of set time

Set a new time by using the OFF-TIMER button.

#### How to cancel -

Press the CANCEL button to turn off the timer display.

Press the ON/OFF button.

Example: You prefer it to stop 22:30.

Press the OFF-TIMER button.
OFF TIMER display OFF is blinking.

Press the "▲ or ▼ (TIMER)" button.

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

→0:00→0:10→0:20→···→1:00→1:10→ (Units of ten minutes)

Set at 22:30

4

#### Press the SET button.

The display changes from blinking to steady lighting and the setting is complete.

The timer light (yellow) is on.

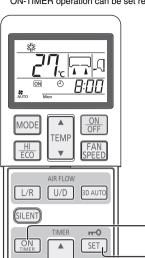
# NOTE

- The unit stops at the end of the set period of time.
- Make sure to press the button within 60 seconds from the last operation in step 3, otherwise the setting is not completed.
- The current time is not displayed during OFF-TIMER operation.
- Different from SLEEP TIMER operation, automatic set temperature adjustment is not done during OFF-TIMER operation.

# **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. ON-TIMER operation can be set regardless of whether the air-conditioner is running or not.

Example: When the preferred room temperature is required at 8:00.



ON-TIMER display ON is blinking.

Press the ON-TIMER button.

Press the "▲ or ▼ (TIMER)" button.

Every time the \( \text{\Lambda} \) button is pressed, the display is switched in the order of:

 $0:00 \longrightarrow 0:10 \longrightarrow 0:20 \longrightarrow \cdots \longrightarrow 1:00 \longrightarrow 1:10 \longrightarrow \text{(Units of ten minutes)}$ 

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

>0:00 →23:50 →23:40 → ··· →23:00 →22:50 → (Units of ten minutes)

Set at 8:00.

Press the SET button.

The display changes from blinking to steady lighting and the setting is complete

The timer light (yellow) is on.

The operation stops if it is set during operation.

#### Changing of set time

SLEEP

Set a new time by using the ON-TIMER button.

CANCEL

#### How to cancel -

WEEKLY

Press the CANCEL button to turn off the timer display.



- Operation starts 5 to 60 minutes before the set time.
- The timer light (yellow) goes out at the set time.
- Make sure to press the button within 60 seconds from the last operation in step 2, otherwise the setting is not completed.
- The current time is not displayed during ON-TIMER operation.
- If the ON/OFF button is pressed after setting the ON-TIMER, the setting will be canceled.

# EEP TIMER + ON-TIMER operation

Combined timer operation of SLEEP TIMER and ON-TIMER.

MODE TEMP FAN AIR FLOW L/R U/D 3D AUTO SILENT TIMER --0 ON TIMER SET

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 16.

Set to

**ON-TIMER** operation setting

Set by the above procedure mentioned in ON-TIMER.

• **8**:00 Set to ON

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

- After the SLEEP TIMER set time has lapsed, 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.

#### Changing of set time

SLEEP

OFF

WEEKLY

Set a new time by using the SLEEP or ON-TIMER button

CANCEL

#### 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: Present time is 21:00. The air-conditioner running.

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

### OFF-TIMER operation setting

**2** ON-TIMER operation setting Set by the procedures on page 17.

Set to oN⁴OFF ⊕ □·□

Timer light (yellow) on the unit will light when the setting is completed.

- The set time will be displayed on the remote control. The display will change depending on the operational status.
- The air-conditioner stopping.

ON NOFF

First the air-conditioner starts running with ON-TIMER. After the air-conditioner stops running with OFF-TIMER.

· The air-conditioner running.

ON OFF (4)

First the air-conditioner stops running with OFF-TIMER. After the air-conditioner starts running with ON-TIMER.

#### - Changing of set time -

Set a new time by using the OFF-TIMER or ON-TIMER button.

#### How to cancel -

Press the CANCEL or ON/OFF button to turn off the timer display.

### NOTE

Timer operation can be set only for next 24 hours.

#### **Comfort Start-up**

In ON-TIMER operation, the unit starts the operation a little earlier, so that the room can approach optimum temperature at ON time. This is so called "Comfort start-up".

Mechanism

The room temperature is checked 60 minutes before the ON time. Depending on the temperature at that time, the operation starts 5 to 60 minutes before the timer is at ON.

 The function is available for COOL operation mode. It does not work for DRY mode. ► In COOL operation ◀
(Stop) Operation starts
(Operation)

Set temperature

Check the room Set time temp, 60 mins.

before.

#### **SLEEP TIMER**

When SLEEP TIMER is selected, the set temperature is automatically adjusted after a while, ensuring that the room is not too cold during cooling.

 During cooling: The preset temperature is lowered by 1°C at the start of SLEEP operation (when the timer is set). After that, the temperature goes up by 1°C every an hour to become 1°C higher than the present temperature.

# **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.

### Sample (At cooling season)



	6:00	8:00 1	0:00 12	2:00 14	:00 16	:00 18	:00 20	:00 22:00
Mon	Program 1 ON 6:00	Program 2 OFF 8:30				Program 3 ON 17:00		Program 4 OFF 22:00
	COOL 2 Fan: AU	-				COOL: Fan:Lo		
Tue	Program 1		Progr			Program 3		Program 4
	ON 5:30	Change se		I	]	ON 17:00		OFF 22:00
	COOL 27°C Fan: AUTO	COOL		DRY	26°C	COOL		
	Fan: AUTO	Fan: Me	· //	1	,	Fan:Lo		
Wed			ram 1		Program 2	Progr	am 3	Program 4
~			10:00 ON	J	OFF 14:00	ON 18	8:00	OFF 22:00
Fri		COOL 28°C	DF	RY 25°C \			COOL 28°C	
		Fan:ULo	1	,/			Fan: ULo	
Sat		Program 1		Program 2,3	3			Program 4
	(		nge setting	No setting		Change sett		OFF 22:00
		COOL 26°C	COOL 25°C			COOL 28°C	;	
		Fan:Hi	Fan:Hi	ŋ	,	Fan:ULo	y	,
Sun		Program 2		Program 1			Program 3	Program 4
	_	ON 7:00	Off	ON 12:00			ON 19:00	OFF 22:00
		COOL 28°C		COOL 26°C			COOL 2	
	F	an:Hi		Fan:Hi			Fan:UL	_0

#### **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:



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.

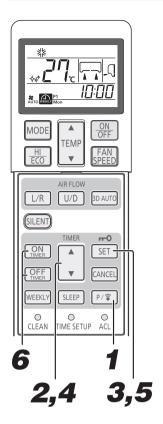
## NOTE

- 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.

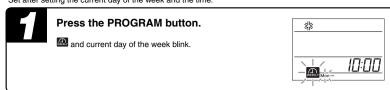
The following contents can be set by the ON-TIMER. Operation mode, fan speed, temperature, airflow direction, ECONOMY, 3D AUTO, SILENT Comfort start-up is not performed for WEEKLY TIMER ON-TIMER operation.

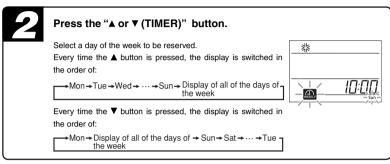
- OFF-TIMER operation of the WEEKLY TIMER is effective only when the air-conditioner is running. When the time set by the OFF-TIMER is reached, the air-conditioner stops.
- When multiple program numbers are set for the current day (day of the week), the operation is performed from the earliest time that 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.
- In case of the WEEKLY TIMER being not sent in the remote control, the TIMER light is not on even if the WEEKLY button is pressed and is displayed on the remote control.

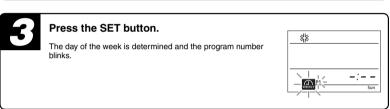
#### Setting mode <Individual setting>

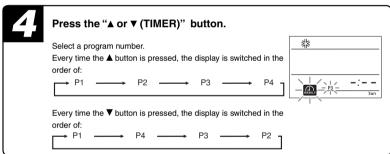


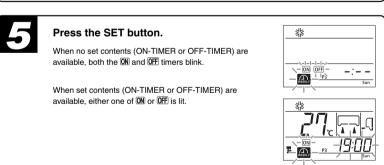
Set after setting the current day of the week and the time.

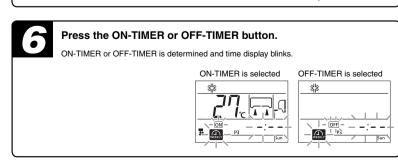


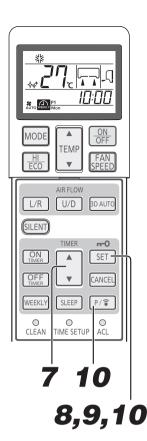














#### Press the "▲ or ▼ (TIMER)" button.

Every time the **\( \Delta\)** button is pressed, the display is switched in the order of:

 $\rightarrow 0:00 \rightarrow 0:10 \rightarrow 0:20 \rightarrow \cdots \rightarrow 1:00 \rightarrow 1:10 \rightarrow \text{(Units of ten minutes)}$ 



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

+0:00 →23:50 →23:40 → ··· →23:00 →22:50 → (Units of ten minutes)

When ON-TIMER is selected, go to Step 8. When OFF-TIMER is selected, go to Step 9.

#### Set required operation contents.

When ON-TIMER is selected, operation mode, fan speed, and air flow direction can be changed and the ECONO or SILENT operation can be set.

#### Press the SET button.

The time is determined and and foliable blink.



#### Press the PROGRAM button or SET button.

When the PROGRAM button is pressed, the setting is sent to the air-conditioner. Since it takes 3 seconds for transmission, point the remote control at the remote control signal receiver of the indoor unit during the period.

When the setting is received, a buzzer sound (pip, pip, pip) is emitted.

When the SET button is pressed, the setting continues from Step 2.

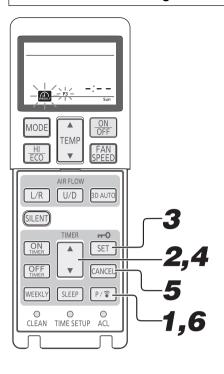
#### Setting mode <Collective setting>

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, 🕮 and all the program numbers (P1, P2, P3 and P4) blink for 10 seconds. (This blinking can not be observed if setting mode gets terminated while setting only one program.)
- 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>



Pi

#### Press the PROGRAM button.

and current day of the week blink.

2

#### Press the "▲ or ▼ (TIMER)" button.

Select a day of the week to be canceled.

3

#### Press the SET button.

The day of the week is determined and the program number blinks.

4

#### Press the "▲ or ▼ (TIMER)" button.

Select a program number to be canceled.

At cancelation operation, do not press the SET button. If the SET button is pressed, the mode is shifted to the Set mode.

5

#### Press the CANCEL button.

The setting contents of the ON or OFF-TIMER are canceled and -: - is displayed on the time display section.

6

#### Press the PROGRAM button.

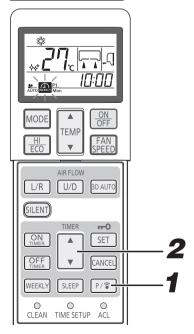
When the PROGRAM button is pressed, the setting is sent to the air-conditioner.

When the setting is received, a buzzer sound (pip, pip, pip) is emitted. The setting contents of each program are canceled. Perform the operation indicated above for each program to be canceled.

#### How to cancel the setting <Collective 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 21, 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.

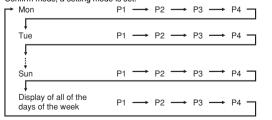
blinks and the setting content lights.

2

#### 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,  $-\dot{}--$  is displayed. When the PROGRAM button is pressed in Confirm mode, a setting mode is set.



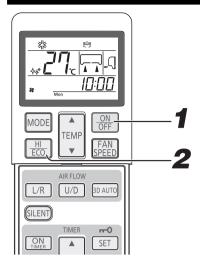
#### Releasing procedure

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.

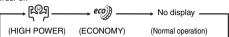
# **HIGH POWER/ECONOMY operation**





# Press the HI/ECO button.

When the operating mode is COOL
 Every time the HI/ECO button is pressed, the display is switched in the order of:



When the operating mode is DRY or ON-TIMER + OFF-TIMER
 Every time the HI/ECO button is pressed, the display is switched in the order of:



#### HIGH POWER operation

Pressing the HI/ECO button intensifies the operating power and initiates powerful cooling operation for 15 minutes continuously. The remote control [2] displays and the FAN SPEED display disappears.



- During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling, 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.
- After HIGH POWER operation, the sound of refrigerant flowing may be heard.
- When the following operations are set, HIGH POWER operation will be canceled.
  - When the HI/ECO button is pressed again.
     (The operation mode will be changed to the ECONOMY operation)
  - ② When the operation mode is changed.
  - 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.
- · Not operable while the air-conditioner is OFF.

#### **ECONOMY** operation

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

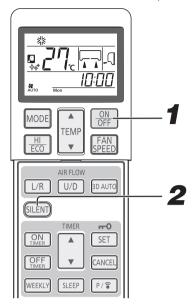


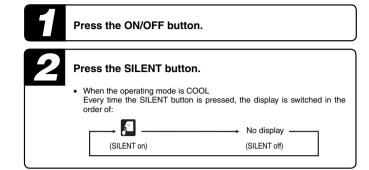
- It will go into ECONOMY operation at the next time the airconditioner runs in the following case.
  - When the air-conditioner is stopped by ON/OFF button during ECONOMY operation.
  - ② When the air-conditioner is stopped in SLEEP or OFF TIMER operation during ECONOMY operation.
  - 3 When the operation is retrieved from CLEAN operation.
- When the following operations are set, ECONOMY operation will be canceled.
  - $\ensuremath{\textcircled{1}}$  When the HI/ECO button is pressed again.
- ② When the operation mode is changed from DRY to FAN.
- · Not operable while the air-conditioner is OFF.

# SILENT operation

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

With the air-conditioner turned off, start the operation from Step 1. With the air-conditioner running, start from Step 2.





#### Releasing procedure

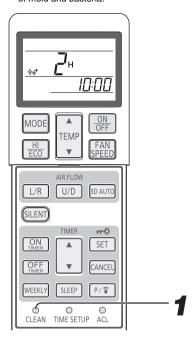
Press the SILENT button to turn off the SILENT display.

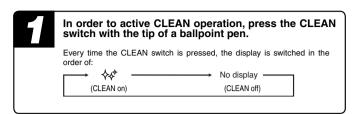
### NOTE

- During SILENT operation, the maximum cooling capacities deteriorate.
- SILENT operation will not function during DRY and FAN operation.
- In case of following operations, the air-conditioner will resume SILENT operation whenever it turns ON again.
  - 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 operation during SILENT operation.
  - ③ When the operation is retrieved from CLEAN 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**

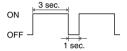
CLEAN operation should be run after COOL and DRY operation to remove the moisture from inside the indoor unit and control the growth of mold and bacteria.





## NOTE

- Two hours later, the air-conditioner stops CLEAN operation automatically.
   To stop the air-conditioner immediately, press the ON/OFF button.
- CLEAN operation is not operated after FAN, OFF-TIMER and SLEEP operations have finished.
- The indoor unit fan runs for about two hours in CLEAN operation.
- The RUN light illuminates during CLEAN operation.



- Pressing the SLEEP button during CLEAN operation cancels the CLEAN operation and then the unit is set to SLEEP operation.
- This is not a function for removing mold, germs or grime that have 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 canceled:
  - 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 canceled. 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.

### Before maintenance

#### Turn off the power source.



• Do not spill any liquid.



Wipe the unit with a soft, dry cloth.



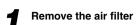
- Do not touch the aluminum fins on the heat exchanger.
- Stand firmly on a stepladder or other stable object when removing the inlet panel and filter.

#### Do not use the following articles:

- Hot water (40°C or more)
   It may deform or discolour the unit.
- Petrol, paint thinner, benzine or cleanser, etc.
   They may deform or scratch the unit.

### **During the operational season**

#### Cleaning the air filter





## Standard interval is once every two week

- Pull up the air inlet panel forward.
- Lightly hold the knobs both sides and lift a little to remove the panel forward.



Cleaning If the filter is very dirty, clean it with warm water (approx. 30°C), and dry it thoroughly.

#### **△** CAUTION

- Do not clean the filters with boiling water.
- · Do not dry them over an open flame.
- Pull them out gently.

### 3 Reinstall the air filter



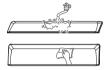
- Hold firmly the filter at both sides as shown at right and insert securely.
- Operating without putting back the air filters will make the unit dusty, and may cause damage.

#### Cleaning the unit

- · Wipe the unit with a soft, dry cloth, or use a vacuum cleaner.
  - If the unit is very dirty, wipe it with a cloth soaked in warm water.

#### Cleaning the air inlet panel

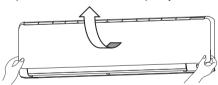
- · Removal, installation of air inlet panel.
- The panel can be washed with water. After washing with water, wipe any moisture off the panel and dry out of direct sunlight.



#### 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.



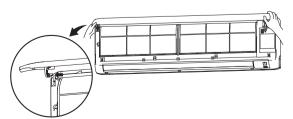
#### Close

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

#### 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.



#### Installation

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



Cooling is affected by an air filter clogged up with dust etc., and the operation noise becomes louder. It may also use extra electricity. Please clean the air filter at appropriate intervals.

#### At the end of the season

## 1

Perform the fan operation for 2 to 3 hours.

Dry the inside of the unit.

**2** s

Stop the unit and turn off the power source.

The unit consumes approx. 4W even when the unit is not operating. Turning off the power source will help saving energy consumption and cost.

Clean and reinstall the air filters.

Clean both the indoor and outdoor units.

Remove batteries from the remote control.

### At the beginning of the season

Ensure that the earth wiring is not snapped nor disconnected.

2 Check if there is no corrosion or rust on the base frame of the outdoor unit.

Make sure that there are no obstacles blocking the airflow around the air intake and outlet openings of the indoor and outdoor units.

Turn on the power source.

Insert batteries in the remote control.

### Installing, inspecting and replacing the air-cleaning filter

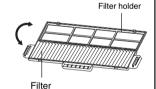
- 1. Open the air inlet panel and remove the air filters. Page 26
- Remove the filter holders, with the air-cleaning filter installed in the folders, from the air-conditioner.
- 3. Remove the natural enzyme filter from filter holder and inspect the filter. Use a vacuum cleaner to remove any dust or dirt from the natural enzyme filter. Replace the natural enzyme filter if it cannot be cleaned or if it has been for about 1 year. (The natural enzyme 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 dirty, 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.)

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







- The natural enzyme filter and the photocatalytic washable deodorizing filter may be installed on either the right or left side of the air-conditioner.
- 5. Install the air filters and close the air inlet panel. Page 26

#### - ACAUTION

- Do not expose natural enzyme filters to direct sunlight for an extended period. The bacteriolytic effect will be lost.
- The heat exchanger may injure your fingers.
- Stand firmly on a stepladder or other stable object when removing the inlet panel and filters.

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

Item	Feature	Color
Natural enzyme filter	By using the work of oxygen, mold and bacteria on the filter are destroyed and the room air is kept clean.	Green
Photocatalytic washable deodorizing filter	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 meter 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.

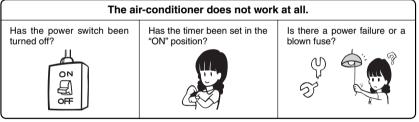
#### Inspection and maintenance

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.)

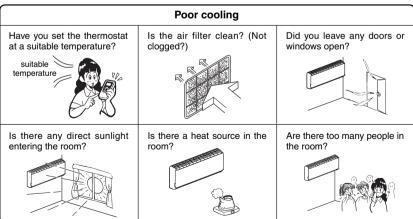
- · Contact your dealer, or any distributor, for inspection and maintenance. (There will be a charge for this service).
- · We would recommend inspection and maintenance to be carried out during the off-season.
- If the supply cord of this appliance is damaged, it must only be replaced by a repair shop 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 29, or if things happen as shown on page 30, switch off the power and contact your dealer.



An alternative refrigerant (R32) is used in this air-conditioner. When asking your dealer for service or inspection and maintenance, explain the dealer about it.

# Notice

### Air flow

Airflow is not blown out when starting the DRY operation.	The indoor fan may stop to prevent re-evaporation of dehumidified moisture and to save energy.
(RUN light is on)	

### Noise

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.
Whistling noise is heard from the outdoor unit.	The noise means that the revolution speed of the compressor is increasing or decreasing.

### **Others**

The unit does not restart immediately after you have stopped it.  (RUN light is on)	Restart is blocked for 3 minutes after you have stopped the operation to protect the unit.  Please wait for three minutes.  The three-minute protection timer in the microcomputer automatically starts it up again.			
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.			
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.			
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.			

# **Contact your dealer**

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

The fuse or switch blows continuously.

The cable becomes extremely hot. The covering of the cable is cracked.

A CAUTION

If the power cord becomes damaged, ask your dealer or a qualified engineer to install the replacement to avoid accidents.

The TV, radio or other equipment starts to malfunction.

A switch does not activate properly.

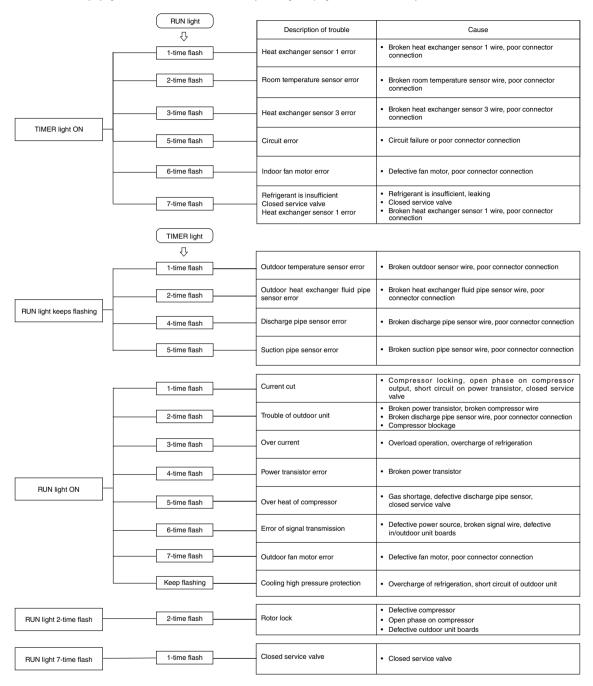
You hear a strange noise during operation.

When abnormalities occur, turn off the power source immediately and turn it on after 3 minutes. Restart the operation with ON/OFF button of the remote control and the abnormalities still continue.

The RUN and TIMER lights on the unit display section blink quickly (0.5 sec. ON; 0.5 sec. OFF) and do not work.

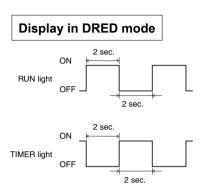
# Self diagnosis function

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



## **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 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.





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