**ORIGINAL INSTRUCTIONS** 



# **USER'S MANUAL** AIR-CONDITIONER

USER'S MANUAL	ENGLIS
AIR-CONDITIONER	

- MANUEL DE L'UTILISATEUR FRANÇAIS
  - ANWENDERHANDBUCH DEUTSCH
    - ISTRUZIONI PER L'USO ITALIANO CONDIZIONATORE D'ARIA
- MANUAL DEL PROPIETARIO ESPAÑOL ACONDICIONADOR DE AIRE
- GEBRUIKERSHANDLEIDING NEDERLANDS
  - MANUAL DO UTILIZADOR PORTUGUÊS APARELHO DE AR CONDICIONADO
    - ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ ΕΛΛΗΝΙΚΑ
- РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ РУССКИЙ кондиционер воздуха
  - KULLANIM KILAVUZU TÜRKÇE SPLİT KLİMA

SRK63ZR-W SRK71ZR-W SRK80ZR-W SRK100ZR-W



Thank you for purchasing a MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, 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.

Your air-conditioner is 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-conditioner 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.

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

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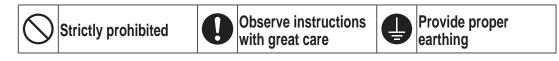
# Safety precautions

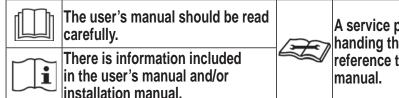
- Before starting to use the system, please read these "Safety precautions" carefully to ensure proper operation of the system.
- When you have read this user's manual, please keep it safely. If someone else takes over as user, make sure that the manual is also passed on to the new user.

Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.
Indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.

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

- This unit is designed for 2 types refrigerants (R32 or R410A). See a label on the outdoor unit to check refrigerant information.
- Symbols which appear frequently in the text have the following meaning:





A service personnel should be handing this equipment with reference to the installation manual.

## Following precaution is only for R32.



This equipment uses flammable refrigerants. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.

## 

- 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 4.0m<sup>2</sup>.\*
- \*This value is for split system. In the case of multi system, see the installation sheet of outdoor unit.

## **INSTALLATION PRECAUTIONS**

	<b>∆WARN</b>	ling		
$\bigcirc$	• The system is for domestic and residential use. If used in severe environments, such as an engineering workplace, the equipment may function poorly.			
0	• The system must be installed by your dealer or a qualified installer. It is not advisable to install the system by yourself, as faulty handling may cause leakage of water, electric shock or fire.			
	<b>△</b> CAUT	ION		
$\bigcirc$	• Do not install it where flammable gas may leak. Gas leaks may cause fire.			
0	<ul> <li>Make sure that an earth leakage breaker is installed.</li> <li>If you do not install an earth leakage breaker, you may get an electric shock.</li> </ul>	<ul> <li>Make sure to install the drain hose properly so that all the water is drained out.</li> <li>Improper installation may lead to water drop in the room resulting in wet furniture.</li> </ul>		
•		operly earthed. a gas pipe, water pipe, lightning conductor ion of the earth wire may cause an electric		
- C F - C	s Product contains fluorinated greenhouse gases. Do not vent R32 into the atmosphere: R32 is a fluo Potential (GWP) = 675. Do not vent R410A into the atmosphere: R410A is Varming Potential (GWP) = 2088. er to a label on outdoor unit for the weight of fluori	a fluorinated greenhouse gas with a Global		

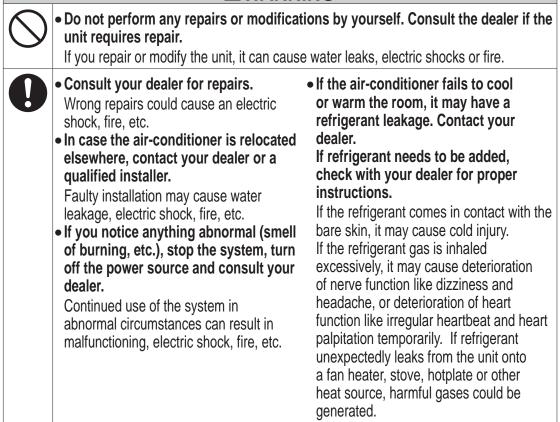
## **IOPERATION PRECAUTIONS**

<b>△</b> WARNING					
$\bigcirc$	<ul> <li>Cleaning and user maintenance shall not be made by children without supervision.</li> <li>Do not insert anything into the air outlet. This may cause injury, as the internal fan rotates at high speed.</li> </ul>				
0	<ul> <li>This air-conditioner 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 air-conditioner in a safe way and understand the hazards involved.</li> <li>Store the remote control out of reach of children. Failure to observe this may result in the batteries being swallowed or other accidents.</li> </ul>				
	<b>∆</b> CAUT	ION			
<ul> <li>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.</li> <li>Do not handle the switches with wet hands. This may cause an electric shock.</li> <li>Do not swing from the indoor unit. If the indoor unit falls down,you may get injured.</li> <li>Do not place a flammable insecticide or paint spray near the air-conditioner, nor spray it directly on the system. This may result in a fire.</li> <li>Do not expose any combustion appliance directly to the air stream of the air-conditioner. The combustion appliance may malfunction.</li> <li>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.</li> </ul>		<ul> <li>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.</li> <li>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.</li> <li>Do not install the air-conditioner where the airflow direction is aimed directly at plants or animals. This will damage their health.</li> <li>Do not step/sit on the unit nor put anything on it. If the unit falls down or things drop from it, people could get hurt.</li> <li>After a long period of use, check the unit's support structure regularly. If you do not repair any damage right away, the unit may fall down and cause personal injury.</li> </ul>			

$\bigcirc$	<ul> <li>Do not touch the aluminum fins on the heat exchanger. It may result in injury.</li> <li>Do not place household electrical appliances or household items underneath the indoor or outdoor units. Condensation falling from the unit may stain objects and cause accidents or electrical shock.</li> <li>Do not operate the system without the air filter. It can cause malfunction of the system due to clogging of the heat exchanger.</li> <li>Do not operate the system without the air filter.</li> <li>It can cause malfunction of the system due to clogging of the heat exchanger.</li> <li>Do not pur liquid into the unit and not put water container on the unit. Water entering the unit could damage insulation and therefore cause an elect shock.</li> </ul>			
<ul> <li>with a combustion appliance, you must regularly ventilate the indoor air. Insufficient ventilation may cause accidents due to oxygen deficiency.</li> <li>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.</li> <li>When you clean air-conditioner, stop the unit and turn off the power source. Never open the panel while the internal fan is rotating.</li> <li>Do not place objects near the outdoor unit or allow leaves to gather around</li> </ul>		<ul> <li>yourself.</li> <li>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.</li> <li>Stop the unit and turn off the power if you hear thunder or there is a danger of lightning. It may damage the unit.</li> <li>If the power cable becomes damaged, contact your dealer or a qualified installer. If it is not replaced, it may cause a</li> </ul>		

## **IPRECAUTIONS FOR RELOCATION OR REPAIRS**

## **WARNING**

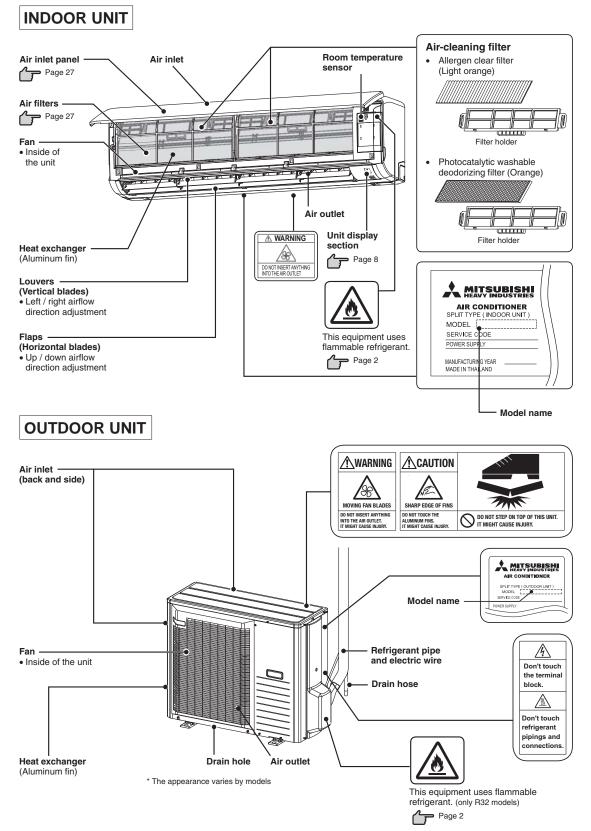


## Tips for effective operation

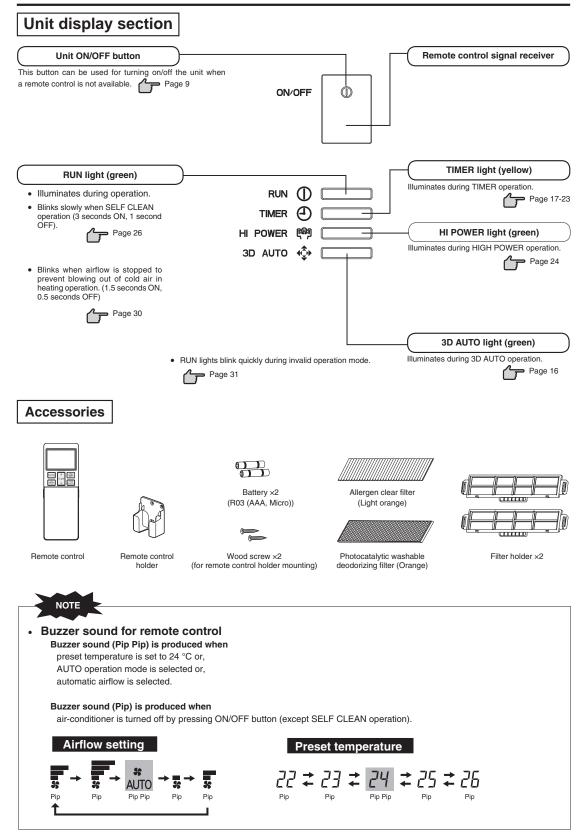
Please observe the following for the most economic and comfortable use of your unit.

- Set a suitable room temperature.
- Excessively high or low temperatures are not good for your health and waste of electricity. Clean the filters frequently. Page 27
- Clogged filters may block the airflow and cause less efficient operation. · Avoid direct sunlight and draught.
- 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.
- Adjust the up/down and left/right airflow to ensure a steady room temperature. · Operate the unit only when needed.
- Use the timer properly to operate the unit only when needed.
- Keep heat source away when cooling. Keep heat sources out of the room as much as possible.

# Name of each part and its function

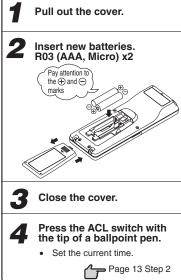


## Name of each part and its function



## **Remote control**

### Setting the batteries



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 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 the 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.



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.

## Warning note for remote control

Strictly prohibited			
<ul> <li>Do not take remote control near high temperature places, such as an electric heating carpet or a stove.</li> </ul>	<ul> <li>Do not leave the remote control exposed to direct sunlight or other strong lighting.</li> </ul>	Do not drop the remote control. Handle with care.	
Do not put any obstructing obstacles 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?

"Setting the batteries" above. Replace the batteries with new ones and retry the  If the operation fails, operate the unit with temporary run operation function.

"Temporary run operation" below.

Contact your dealer to have the remote control checked.

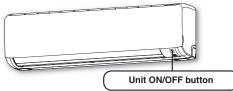
## Temporary run operation

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

-	O	peration program —			
	•	OPERATION MODE	:	AUTO	
		FAN SPEED			

-		•	AUTO
•	AIR FLOW	:	AUTO

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



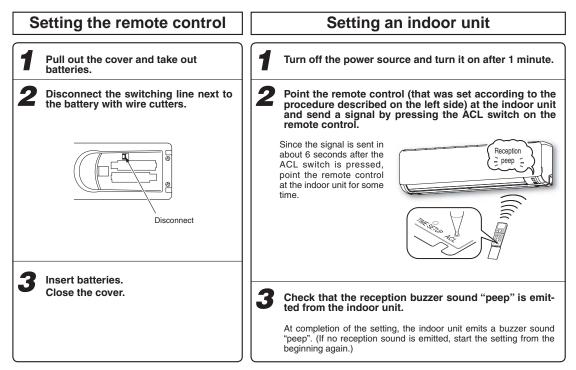
NOTE

operation.

 Do not keep pressing the unit ON/OFF button down for 5 seconds or more. (Pressing it 5 seconds or more sets the forced cooling operation used during servicing or when relocating the air-conditioner.)

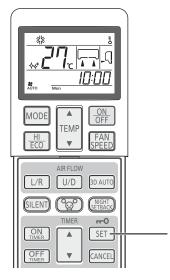
# Installing two air-conditioners in the same room

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.





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

 ${f J}$  is displayed. When Child lock is set, only the ON/OFF button can be operated.

#### Releasing procedure -

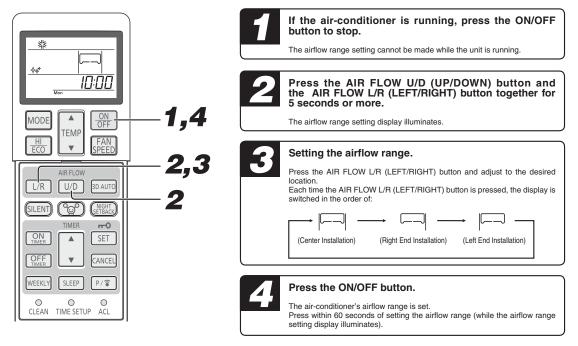


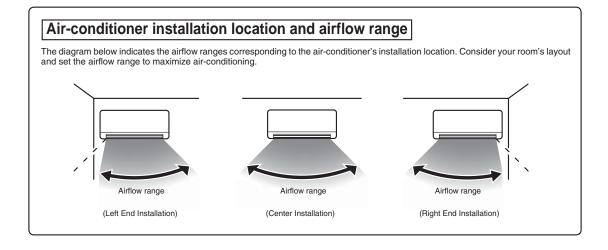
While Child lock is set, the settings of temperature, fan speed and airflow direction cannot be changed. To change the settings, reset Child lock.
Child lock will not function during ALLERGEN CLEAR operation.

EN-10

# Airflow range setting

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

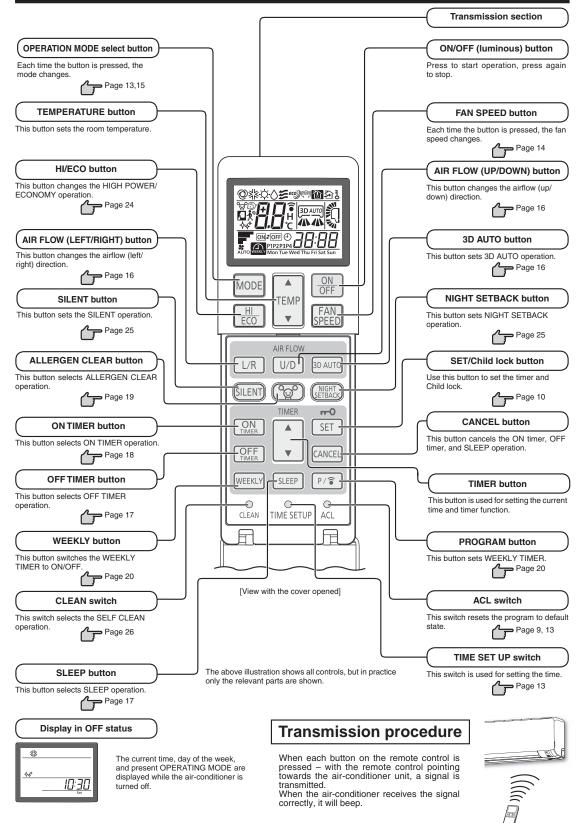




NOTE

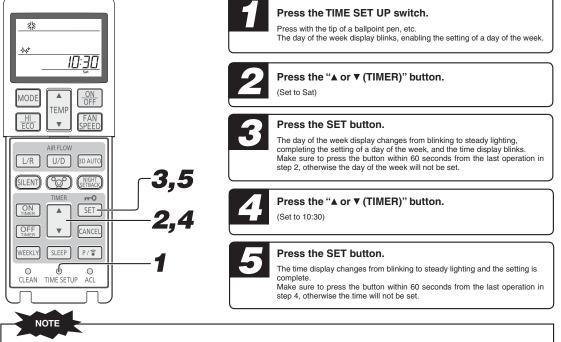
- Once the airflow range setting is configured, it is stored in the air-conditioner even if the power source is turned off. To change the airflow range setting, set range again with the remote control.
- During the operation, an airflow range setting cannot be set.
- When the air-conditioner is installed 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



# **Current time setting**

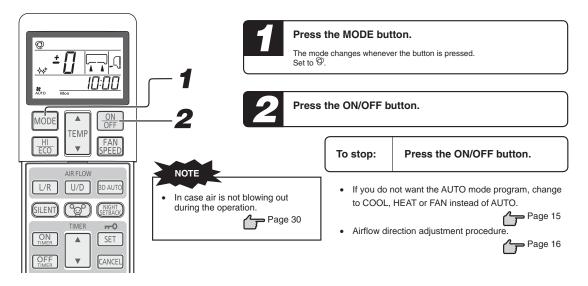
When inserting the batteries, the current time is automatically set to time setting mode. Mon and 13:00 are displayed as the current time. Set a correct day of the week and time.
Example: Set to Sat 10:30.



- The timer operation works based on the time clock, so set it correctly.
- The remote control data will be 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 will be 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) depending on the room temperature when switched on.



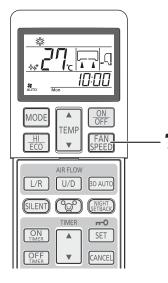
# Temperature adjustment during AUTO mode

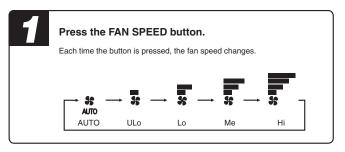
■ Default preset temperature during AUTO mode is 24°C for both cooling and heating mode. However, it can be adjusted (Minimum 18°C, Maximum 30°C) using ▲ button or ▼ button.

Press the"▲ or ▼ (TEMP)" but the state of t	utton.					
Image: Second second						
MODEON OFFEach time the $\blacktriangle$ button is pressed, the swit $-6 \rightarrow -5 \rightarrow \dots -1 \rightarrow \pm 0 \rightarrow +1 \dots$ When +6 is indicated, even if the $\bigstar$ button isHi ECOFAN SPEED	. +6.					
When it is a little hot AIR FLOW L/R U/D BD AUTO Press the ▼ button.						
Each time the $\checkmark$ button is pressed, the swit         (SILENT) ( ) ( NIGHT)	Each time the $\nabla$ button is pressed, the switch over occurs in the following order +6 $\rightarrow$ +5 $\rightarrow$ +1 $\rightarrow$ ±0 $\rightarrow$ -16. When -6 is indicated even if the $\nabla$ button is pressed the indicator does not change					
ON SET	ntrol display	/	+4	+5	+6	]
	-	26 27	28	29	30	·

## **FAN SPEED**

■ The FAN SPEED can be set without DRY mode.



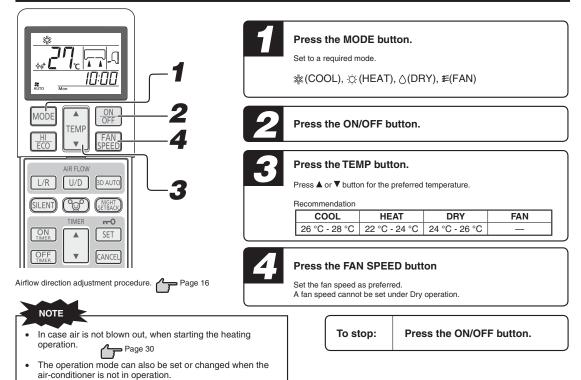


Operation capacity by your choice	FAN SPEED
Set automatically by microcomputer	AUTO
Silent operation	ULo
Energy-saving operation	Lo
Standard operation	Me
Powerful operation with high capacity	Hi



- When FAN SPEED is changed from Hi to Lo or ULo, the sound of refrigerant may be heard.
- When COOL mode is used when outside temperatures are low, the FAN SPEED may change automatically to protect the air-conditioner.

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



## Air-conditioner operation temperature range

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

	COOL mode operation	HEAT mode operation
Outside temperature	Approximately -15 to 46 °C	Approximately -15 to 24 °C
Inside temperature	Approximately 18 to 32 °C	Approximately 10 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 drops.		

## **Characteristics of HEAT mode operation**

### Mechanism and capacity of HEAT mode operation

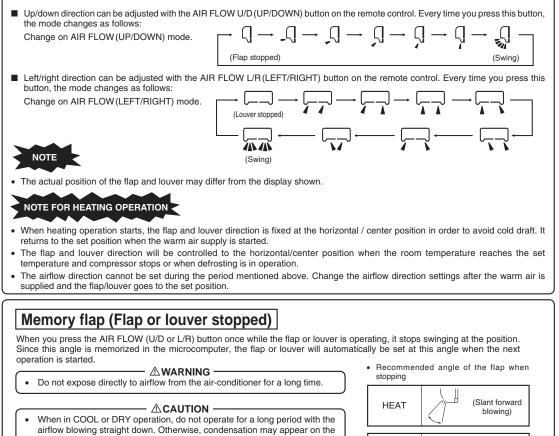
- The unit draws heat from the cold outside air, transfers it to indoors and heats the room. As a characteristic of heat pump system, the heating capacity reduces when the outside air temperature gets colder.
- It may take some time to supply hot air after turning on the air-conditioner.
- If the outside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

## Defrosting

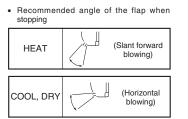
If the outside temperature becomes low and humidity is high, the heat exchanger in the outdoor unit may frost over, which prevents efficient heating. If this happens, the automatic defrost function is activated and the heating operation stops for 5 to 15 minutes during defrosting.

- Both indoor and outdoor fans stop and the RUN light blinks slowly (1.5 seconds ON, 0.5 seconds OFF) during defrosting.
- The outdoor unit may release 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

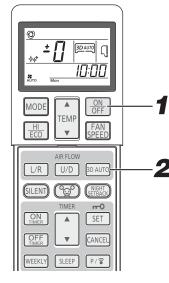


outlet grill and drip down. Do not try to adjust the flaps and louvers by hand, as the control angle may change or the flap or louver may not be closed completely.



# **3D AUTO operation**

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



1	Press the ON/OFF button.	
2	Press the 3D AUTO button.	
	Each time the 3D AUTO button is pressed, the display order of:	is switched in the
	(3D AUTO) No display (Normal operation)	n)
Releas	sing procedure	

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

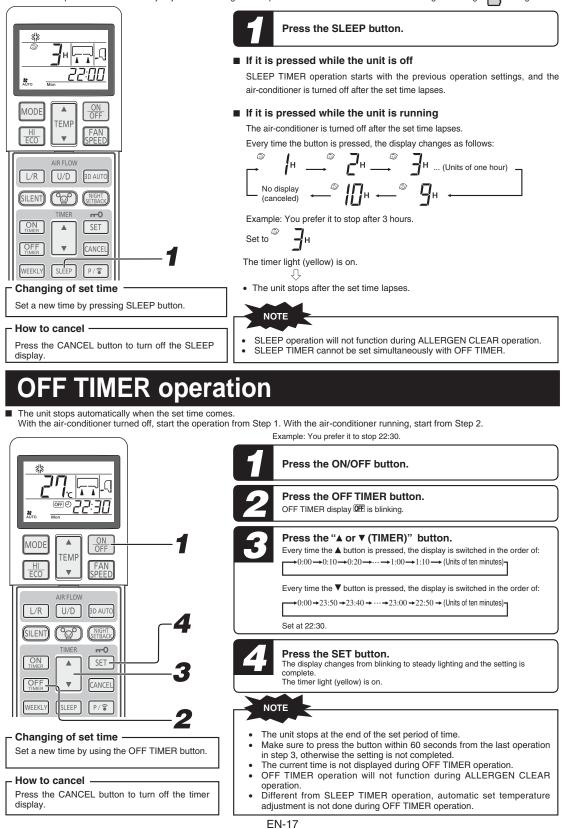


- 3D AUTO operation is canceled when you switch the operation mode.
- If 3D AUTO operation is canceled then the airflow direction changes to that used before 3D AUTO was set.
- 3D AUTO operation can be set in AUTO, COOL, or HEAT operation mode only

# **SLEEP TIMER operation**

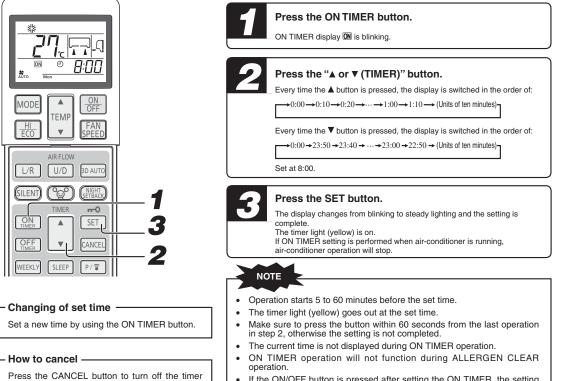
The unit will stop automatically after the set time lapses.

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



# **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 19 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.

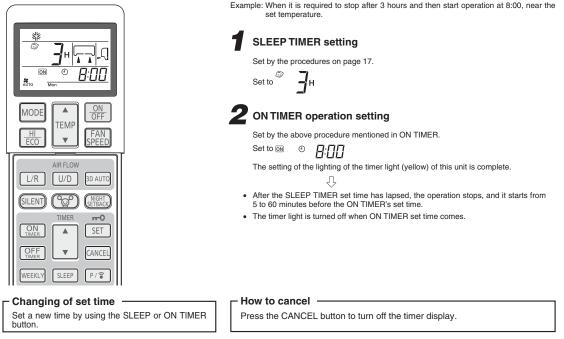


 If the ON/OFF button is pressed after setting the ON TIMER, the setting will be canceled.

# **SLEEP TIMER + ON TIMER operation**

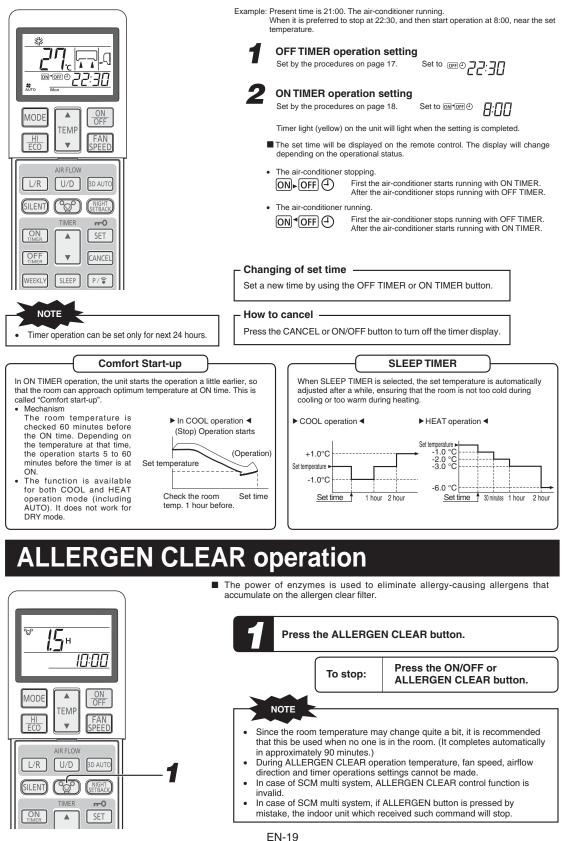
■ This is the combined timer operation of SLEEP TIMER and ON TIMER.

display.



# **ON TIMER + OFF TIMER operation**

#### ■ This is the combined timer operation of ON TIMER and OFF TIMER.



# **WEEKLY TIMER operation**

Up to 4 programs with timer operation (ON TIMER / OFF TIMER) are available for each day of the week. Maximum 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 se	ason)					: W	EEKLY TIMER setting
								IANUAL 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 27°C Fan : AUTO	Program 2 OFF 8:30				Program 3 ON 17:00 COOL 2 Fan:Lo		Program 4 OFF 22:00
Tue	Program 1 ON 5:30 COOL 27°C Fan: AUTO	Change setti AUTO 27 Fan : Me			26°C	Program 3 ON 17:00 COOL 2 Fan:Lo	28°C	Program 4 OFF 22:00
Wed ~ Fri		Progra OFF 1 DOL 28°C n: ULo	0:00 ON	RY 25°C	Program 2 OFF 14:00			Program 4 OFF 22:00
Sat	ON	gram 1 7:30 Chanç COOL 26°C <sup>-</sup> an : Hi	e setting COOL 25°C Fan : Hi	Program 2,3 No setting	3	Change sett COOL 28°C Fan: ULo		Program 4 OFF 22:00
Sun	ON	gram 2 7:00 <sup>JL</sup> 28°C Hi		Program 1 ON 12:00 COOL 26°C Fan : Hi			Program 3 ON 19:00 COOL 2 Fan: UL	

### WEEKLY TIMER ON/OFF setting

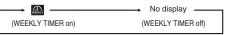
Switch the WEEKLY TIMER to ON/OFF by using the WEEKLY button.



#### Press the WEEKLY button.

The WEEKLY TIMER becomes effective.

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



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.

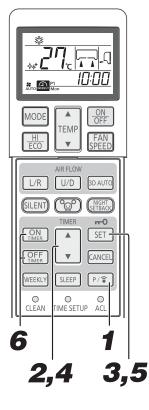
The following contents can be set by the ON TIMER.

Operation mode, fan speed, temperature, airflow direction, ECONOMY, 3D AUTO, NIGHT SETBACK, SILENT

Comfort start-up is not performed for WEEKLY TIMER ON TIMER operation.

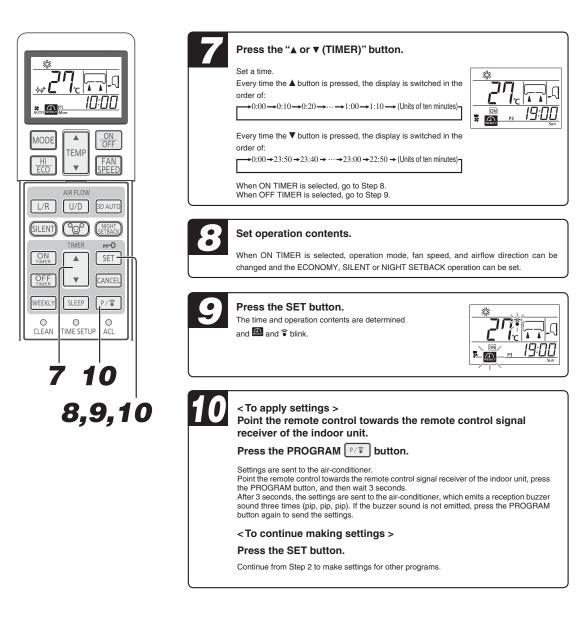
- OFF TIMER operation of the WEEKLY TIMER is effective only when the air-conditioner is running. When the time set by the OFF TIMER is reached, the air-conditioner stops.
- When multiple program numbers are set for the current day (day of the week), the operation is performed from the earliest time that is set.
- If any timer operation (ON TIMER, OFF TIMER or SLEEP TIMER) in addition to the WEEKLY TIMER operation is set, operation will not start according the ON TIMER/OFF TIMER settings specified with the WEEKLY TIMER operation.
   After canceling all other timer operations (ON TIMER, OFF TIMER and SLEEP TIMER), switch on the WEEKLY TIMER operation.
- The ON TIMER or OFF TIMER of the same time in the same day of the week cannot be set.
- In case WEEKLY TIMER setting is not sent to the unit, TIMER light will not turn 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.

1	Press the PROGRAM Pr button.	
9	Press the "▲ or ▼ (TIMER)" button.	
	Select a day of the week to be reserved. Every time the ▲ button is pressed, the display is switched in the order of:	
	→Mon→Tue→Wed→ ··· →Sun→ Display of all of the days of	
	Every time the ▼ button is pressed, the display is switched in	
	the order of: →Mon→Display of all of the days of → Sun→Sat→…→Tue ] the week	
2	Press the SET button.	
	The day of the week is determined and the program number blinks.	
		·
4	Press the " $\blacktriangle$ or $\checkmark$ (TIMER)" button. Select a program number. Every time the $\blacktriangle$ button is pressed, the display is switched in the order of: $\longrightarrow$ P1 $\longrightarrow$ P2 $\longrightarrow$ P3 $\longrightarrow$ P4	
	Every time the ♥ button is pressed, the display is switched in the order of: P1 → P4 → P3 → P2 ]	
5	Press the SET button. When no set contents (ON TIMER or OFF TIMER) are available, both the OM and OEE timers blink. When set contents (ON TIMER or OFF TIMER) are available, either OM or OEE timer blinks.	N           -000 0000           -000 0000           -000 0000           -000 0000           -000 0000           -000 0000           -000 0000           -000 0000           -000 0000           -000 0000
	Press the ON TIMER or OFF TIMER button.	
0	ON TIMER or OFF TIMER is determined and time display blinks.	
	ON TIMEN OF OFF TIMEN Is determined and time display billing.	OFF TIMER is selected



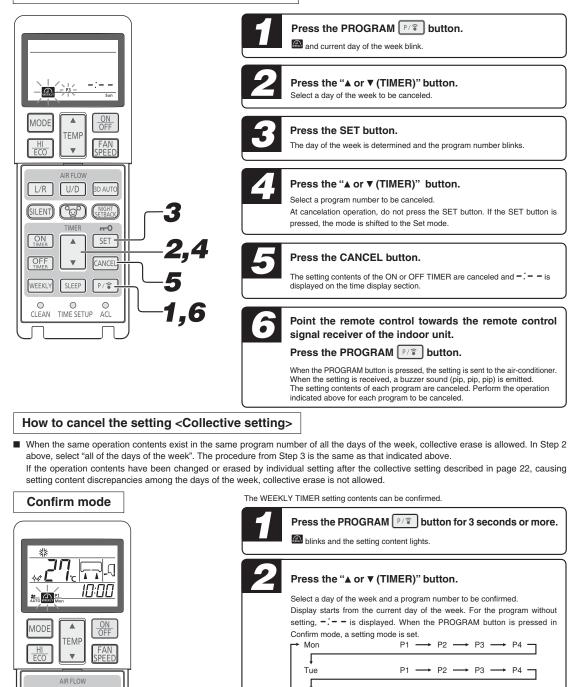
#### Setting mode <Collective setting>

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>



Releasing procedure

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

 NOTE

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

L/R

SILENT

ON

OFF

WEEKLY

U/D

<u>°</u>

TIMER

V

SLEEP

O O O CLEAN TIME SETUP ACL

3D AUTC

--0

SET

CANCEL

P/ 🔒

Sun

Display of all of the

days of the week

 $P1 \longrightarrow P2 \longrightarrow P3 \longrightarrow P4 \neg$ 

 $P1 \longrightarrow P2 \longrightarrow P3 \longrightarrow P4$ 

# **HIGH POWER/ECONOMY operation**

	Press the ON/OFF button.
	Press the HI/ECO button.         • When the operating mode is AUTO, COOL or HEAT         Every time the HI/ECO button is pressed, the display is switched in the order of:         →          →          ●          ●         ●         ●         ●         ●         ●         ●         ●         ●         ●         ●         ●
	(HIGH POWER) (ECONOMY) (Normal operation) • 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:
ON TIMER SET	

#### - 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  $\frac{P_{\text{CP}}^{\text{CP}}}{2}$  displays and the FAN SPEED display disappears.



- During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling 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.
- After HIGH POWER operation, the sound of refrigerant flowing may be heard.
- When the following operations are set, HIGH POWER
   operation will be canceled.
  - $\stackrel{.}{\textcircled{}}$  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.
  - ③ When it has been 15 minutes 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.
- Not operable while the air-conditioner is OFF.

#### - ECONOMY operation

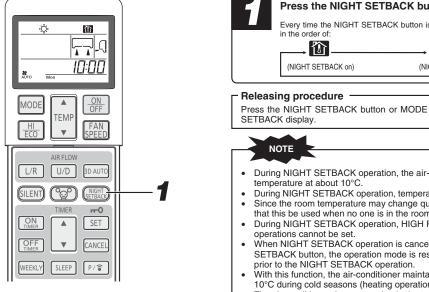
Pressing the HI/ECO button initiates a soft operation with the power suppressed in order to avoid an excessive cooling or heating. The unit operates 1.5°C higher than the setting temperature during cooling or 2.5°C lower than that during heating. The remote control displays and the FAN SPEED display 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 SELF CLEAN or ALLERGEN 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 from DRY to FAN.
  - ③ When the NIGHT SETBACK button is pressed.
- Not operable while the air-conditioner is OFF.

# **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

No display (NIGHT SETBACK off)

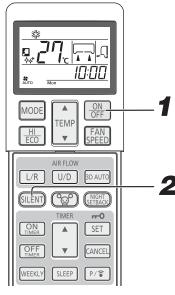
Press the NIGHT SETBACK button or MODE button to turn off the NIGHT

- During NIGHT SETBACK operation, the air-conditioner maintains the set
- 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, HIGH POWER and ECONOMY
- When NIGHT SETBACK operation is canceled by pressing the NIGHT SETBACK button, the operation mode is reset to the mode immediately
- With this function, the air-conditioner maintains the room temperature at 10°C during cold seasons (heating operation).
  - The air-conditioner does not maintain the temperature at 10°C during the hot/warm seasons (cooling operation).

When the room temperature is higher than 10°C, the fan will stop or operate at a low speed.

# 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.

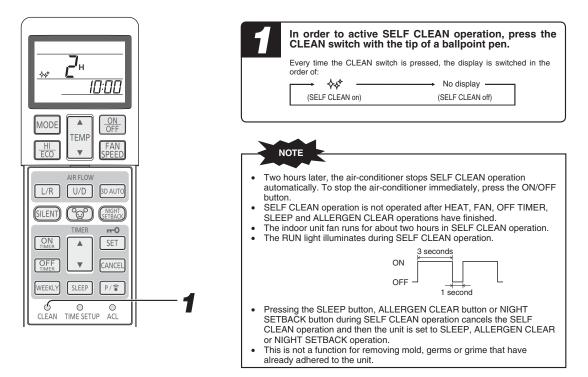


### Press the ON/OFF button. Press the SILENT button. When the operating mode is AUTO, COOL, HEAT or NIGHT SETBACK Every time the SILENT button is pressed, the display is switched in the order of: No display (SILENT off) (SILENT on) Releasing procedure Press the SILENT button to turn off the SILENT display. NOTE

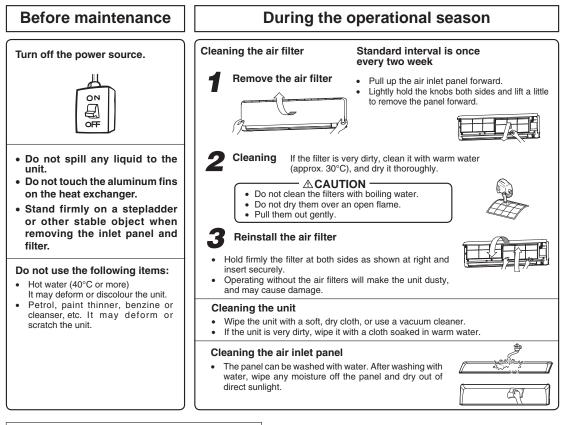
- During SILENT operation, the maximum cooling and heating capacities deteriorate.
- SILENT operation will not function during DRY and FAN operation. In case of following operations, the air-conditioner will resume SILENT operation whenever it turns ON again.
  - (1) When the air-conditioner is stopped 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 SELF 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
- In case of SCM multi system, SILENT control is invalid.

# **SELF CLEAN operation**

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



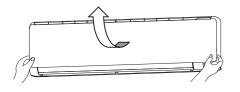
## Maintenance



#### How to open and close the air inlet panel

#### Open

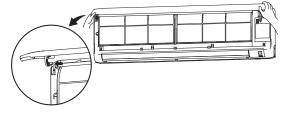
Place fingers at the corners on both sides of the panel and pull up the panel forward so that it will be open by about 60 degrees.



#### How to remove and install the air inlet panel

#### Removing

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

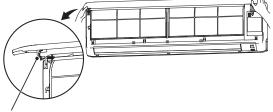


#### Close

Push both corners of the panel evenly and press further lightly at the center.

#### Installing

Insert the panel arm into the slot on the front panel from the position shown below, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.



Panel arm



Cooling/heating 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 beginning of the season		
Ensure that the earth wiring is not snapped nor disconnected.		
<b>2</b> Make sure that there is no corrosion or rust on the base frame of the outdoor unit.		
<b>3</b> Make sure that there are no obstacles blocking the airflow around the air intake and outlet		
openings of the indoor and outdoor units.		
<b>4</b> Turn on the power source.		
<b>5</b> 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 27

- Remove the filter holders, with the air-cleaning filter installed in the holders, from the air-conditioner.
- 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 used. 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 restores 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 allergen clear filter and the photocatalytic washable deodorizing filter may be installed on either the right or left side of the air-conditioner.
   Install the allergen clear filter with the light orange side on front side.
- . . .

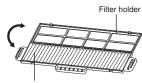
5. Install the air filters and close the air inlet panel. Page 27

- The heat exchanger may injure your fingers.
- Stand firmly on a stepladder or other stable object when removing the inlet panel and filters.

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

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





Filter

# **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.

#### The air-conditioner does not work at all.

- Has the power switch been turned off?
- Has the timer been set in the "ON" position?
- Is there a power failure or a blown fuse?
- Poor cooling or heating
- · Have you set the thermostat at a suitable temperature?
- Is the air filter clean? (Not clogged?)
- Have you left any doors or windows open?
- Is there any direct sunlight entering the room?
- Is there a heat source in the room?
- Are there too many people in the room?

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 30, or if things happen as shown on page 31, switch off the power and contact your dealer.

# Notice

### Airflow

Air is not blown out when starting the HEATING operation. RUN light blinks slowly (1.5 seconds ON, 0.5 seconds OFF)	Airflow has stopped to prevent blowing out of cold air until the indoor heat exchanger has warmed up. (2 to 5 minutes)
Air is not blown out for 5 to 15 minutes or cool air is	When outdoor temperature is low and humidity is high, the
blown out for a moment at HEATING operation.	unit sometimes performs defrosting automatically. Please
RUN light blinks slowly	wait. During defrosting, water or steam may release from the
(1.5 seconds ON, 0.5 seconds OFF)	outdoor unit.
Air is not blown out when starting the DRY operation.	The indoor fan may stop to prevent re-evaporation of
(RUN light is on)	dehumidified moisture and to save energy.

### Noise

You hear a slight gurgling sound.	This is caused by refrigerant 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.	This means that the rotation speed of the compressor is increasing or decreasing.
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.

### 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. The 3 minutes protection timer in the microcomputer automatically starts it up again.
Some steam releases 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. Close all windows and doors to prevent outside humidity from entering.
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, block 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 is stopped.	Indoor fan       : Fan will not stop after 2 hours if set to SELF 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 SELF CLEAN operation. Run light will turn off when SELF 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.
- The TV, radio or other equipment starts to malfunction.
- A switch does not activate properly.
   A strange poice is beard during operation
- A strange noise is heard during operation.
- When abnormalities occur, turn of 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 seconds ON; 0.5 seconds OFF) or the lights do not work.

## 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:
  - Timer settings
  - ② HIGH POWER operations

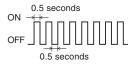


- Auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off.
- When power failure occurs, the timer setting is canceled. Once power is resumed, set the timer again.

## About the multiple air-conditioners

### 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 change
  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 or HEAT
  mode when operation is started depending on the room temperature.
- During simultaneous operation of air-conditioners, 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 mode. (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

	(RUN light	Description of trouble	Cause
	1-time flash	Indoor 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	Indoor heat exchanger sensor 3 error	Broken heat exchanger sensor 3 wire, poor connector connection
TIMER light ON	5-time flash	- Circuit error	Circuit failure or poor connector connection
	6-time flash	- Indoor fan motor error	Defective fan motor, poor connector connection
	7-time flash	Refrigerant is insufficient Closed service valve	Refrigerant is insufficient, leaking     Closed service valve
	TIMER light		
	↓ 1-time flash	Outdoor temperature sensor error	Broken outdoor sensor wire, poor connector connection
	2-time flash	Outdoor heat exchanger sensor error	Broken heat exchanger 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, short circuit on power transistor, closed service valve
	2-time flash	Trouble of outdoor unit	Broken compressor wire     Compressor blockage
	3-time flash	Over current	Overload operation, overcharge of refrigerant
	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 source, broken signal wire, defective indoor/outdoor unit boards
	7-time flash	Outdoor fan motor error	Defective fan motor, poor connector connection
	Keep flashing	Cooling high pressure protection	Overcharge of refrigerant, 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 service valve



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