



USER'S MANUAL

AIR-CONDITIONER

SRK25ZSP-W

SRK35ZSP-W SRK45ZSP-W



ENGLISH

AIR-CONDITIONER



FRANÇAIS

CLIMATISFUR

ANWENDERHANDBUCH **DEUTSCH**

KLIMAGERÄT

ISTRUZIONI PER L'USO ITALIANO CONDIZIONATORE D'ARIA

MANUAL DEL PROPIETARIO **ESPAÑOL**

ACONDICIONADOR DE AIRE

GEBRUIKERSHANDLEIDING NEDERLANDS

AIRCONDITIONING

MANUAL DO UTILIZADOR PORTUGUÊS

APARELHO DE AR CONDICIONADO

ΕΛΛΗΝΙΚΑ ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ

ΚΛΙΜΑΤΙΣΤΙΚΟ

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ РУССКИЙ

КОНДИЦИОНЕР ВОЗДУХА

KULLANIM KILAVUZU TÜRKÇE

SPLİT KLİMA

C€ FAI

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.

ENGLISH



This symbol printed on the batteries attached to your air-conditioner 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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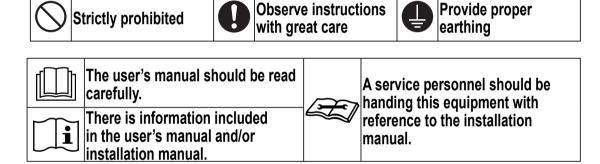
Safety precautions

- Before starting to use the system, please read these "Safety precautions" carefully to ensure proper operation of the system.
- When you have read this 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.

∆WARNING	Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.
△ CAUTION	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:



■ 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.

△WARNING

- 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 4.0 m².*
- *This value is for split system.

INSTALLATION PRECAUTIONS

MARNING



• 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 installer.

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.



 Make sure that an earth leakage breaker is installed.

If you do not install an earth leakage breaker, you may get an electric shock.

 Make sure to install the drain hose properly so that all the water is drained out.

Improper installation may lead to water drop in the room resulting in wet furniture.



Make sure that the system has been properly earthed.

Earth wire should never be connected to a gas pipe, water pipe, lightning conductor or telephone earth wire. Improper installation of the earth wire may cause an electric shock.

This Product contains fluorinated greenhouse gases.

- Do not vent R32 into the atmosphere: R32 is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 675.
- Do not vent R410A into the atmosphere: R410A is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 2088.

Refer to a label on outdoor unit for the weight of fluorinated greenhouse gas and CO₂ equivalent.

■OPERATION PRECAUTIONS

MARNING



- Children shall not play with the air-conditioner.
- 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 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.
- Store the remote control out of reach of children.

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 air-conditioner, nor spray it directly on the system.
 This may result in a fire.
- Do not expose any combustion appliance directly to the air stream of the air-conditioner.

The combustion appliance may malfunction.

 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 air-conditioner where the airflow direction is aimed directly at plants or animals.

This will damage their health.

 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.

 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.

ACAUTION



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

It may result in injury.

- 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.
- 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 the unit and do not put water container on the unit. Water entering the unit could damage the insulation and therefore cause an electric shock.



• If you operate air-conditioner together with a combustion appliance, you must regularly ventilate the indoor air.

Insufficient ventilation may cause accidents due to oxygen deficiency.

• Stand firmly on a stepladder or other stable object when removing the inlet panel and filters.

Failure to observe this may result in injury through insecure objects toppling over.

- When you clean air-conditioner, 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.

• Contact your dealer to clean inside the 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 cable becomes damaged, contact your dealer or a qualified installer.

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 qualified installer.

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 can 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.

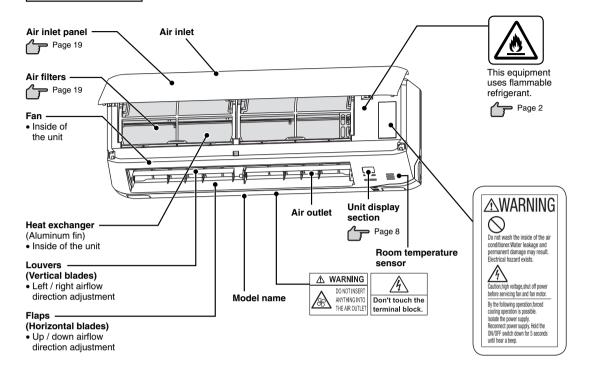
If the refrigerant comes in contact with the bare skin, it may cause cold injury. If the refrigerant gas is inhaled excessively, it may cause deterioration of nerve function like dizziness and headache, or deterioration of heart function like irregular heartbeat and heart palpitation temporarily. If refrigerant unexpectedly leaks from the unit onto a fan heater, stove, hotplate or other heat source, harmful gases could be generated.

Tips for effective operation

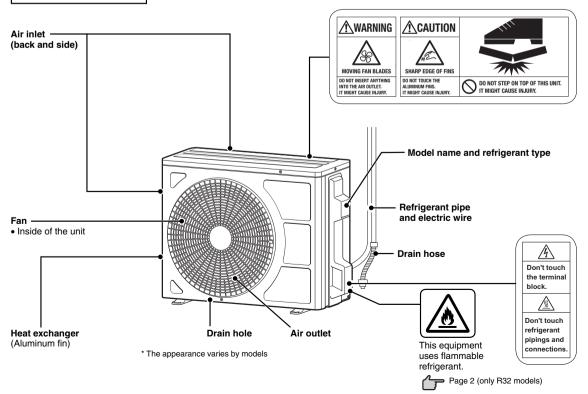
- Please observe the following for the most economic and comfortable use of your unit.
 - · Set a suitable room temperature.
 - Excessively high or low temperatures are not good for your health and waste of electricity.
 - Clean the filters frequently.
 - Clogged filters may block the airflow and cause less efficient operation.
- Page 19
- 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

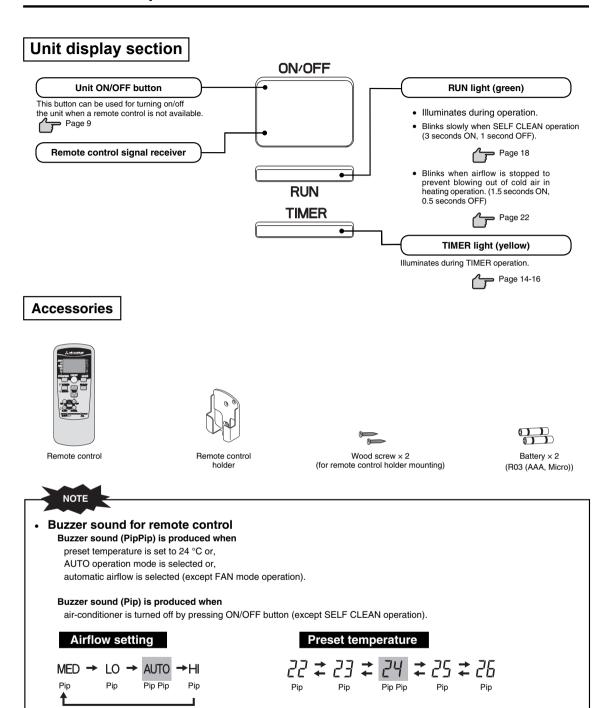
INDOOR UNIT



OUTDOOR UNIT



Name of each part and its function

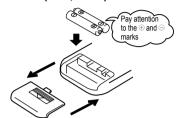


Remote control

Setting the batteries

Pull out the cover.

Insert new batteries. R03 (AAA, Micro) x 2



Close the cover.

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

Set the current time.

Page 10 Current time setting

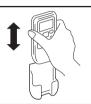
NOTE

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

Operation failure with the remote control

· Are the batteries running down?

"Setting the batteries" above.

Replace the batteries with new ones and retry the operation.

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

"Temporary run operation" below.

Contact your dealer to have the remote

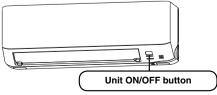
Temporary run operation

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

Operation program

OPERATION MODE : AUTO
 FAN SPEED : AUTO
 AIR FLOW : AUTO

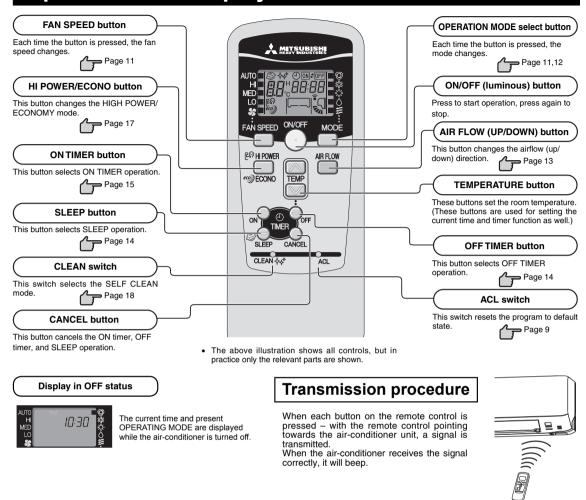
 Operation starts by pressing the unit ON/OFF button; it stops if you press the button again.





Do not 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.)

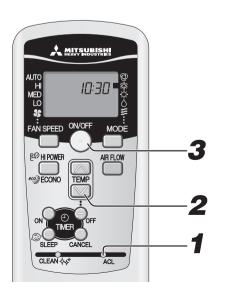
Operation and display section for remote control



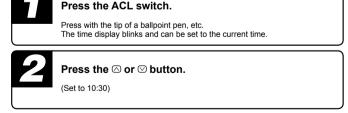
Current time setting

■ When inserting the batteries, the current time is automatically set to time setting mode.

13:00 is displayed as the current time. Set the clock to the right time.



Example: Set to 10:30.



Press the ON/OFF button.

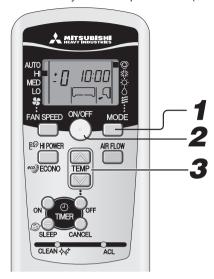
The display changes from blinking to steady lighting and the setting is complete. Make sure to press the button within 60 seconds from the last operation in step 2, otherwise the time is not set.

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.

AUTO mode operation

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



 If you do not want the AUTO mode program, change to COOL, HEAT or FAN instead of AUTO.

Page 12

Airflow direction adjustment procedure.



In case air is not blowing out during the operation.

Page 22

Press the MODE button.

The mode changes whenever the button is pressed. Set to $\ensuremath{\mathbb{O}}$.

2

Press the ON/OFF button.

3

Press the \triangle or \bigcirc button.

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.

When it is a little cold

Press the \bigcirc button.

Each time the ○ button is pressed, the switch over occurs in the following order -6 → -5 → -1 → ±0 → +1 +6.

When +6 is indicated, even if the \(\triangle \) button is pressed, the indicator does not change.

When it is a little hot

Press the [™] button.

 \blacksquare Each time the \boxdot button is pressed, the switch over occurs in the following order

 $+6 \rightarrow +5 \rightarrow +1 \rightarrow \pm 0 \rightarrow -1 \ -6.$

To stop:

Press the ON/OFF button.

FAN SPEED

■ The FAN SPEED can be set except for DRY mode.



4

Press the FAN SPEED button.

Each time the button is pressed, the fan speed changes.

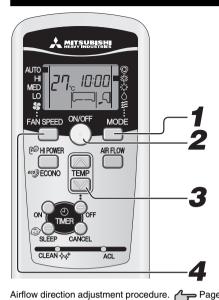
 \longrightarrow AUTO \longrightarrow HI \longrightarrow MED \longrightarrow LO -

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



- When FAN SPEED is changed from HI to LO, the sound of refrigerant may be heard.
- When COOL mode is used if outside temperatures are low, the FAN SPEED may change automatically to protect the air-conditioner.

COOL/HEAT/DRY/FAN mode operation



Press the MODE button.

业(COOL), ☆ (HEAT), △(DRY), ≇(FAN)

Press the ON/OFF button.

Set to a required mode.

Press the TEMP button.

Press ⊙ or ⊙ button for the preferred temperature.

Recommendation

COOL	HEAT	DRY	FAN
26 °C - 28 °C	22 °C - 24 °C	24 °C - 26 °C	ı

Press the FAN SPEED button

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

NOTE

 In case air is not blown out, when starting the heating operation.

Page 22

 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 operation temperature range

Use within the following operational range. Operating outside of this range may result in the protection devices being activated and 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

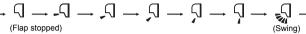
If the outside temperature becomes low and humidity is high, the heat exchanger in the outdoor unit may frost over, which prevents efficient heating. If this happens, the automatic defrost function is activated and the heating operation stops for 5 to 15 minutes during defrosting.

- · 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

■ Up/down direction can be adjusted with the AIR FLOW button on the remote control. Every time you press this button, the mode changes as follows:

Change on AIR FLOW (UP/DOWN) mode.





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

NOTE FOR HEATING OPERATION

- When heating operation starts, the flap direction is fixed at the horizontal position in order to avoid cold draft. It returns to the set position when the warm air supply is started.
- The flap direction will be controlled to the horizontal position when the room temperature reaches the set temperature and compressor stops or when defrosting is in operation.
- The airflow direction cannot be set during the period mentioned above. Change the airflow direction settings after the warm air is supplied and the flap goes to the set position.

Memory flap (Flap stopped)

When you press the AIR FLOW button once while the flap is operating, it stops swinging at the position. Since this angle is memorized in the microcomputer, the flap will automatically be set at this angle when the next operation is started.

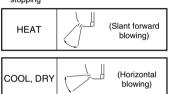
⚠WARNING ·

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

⚠CAUTION

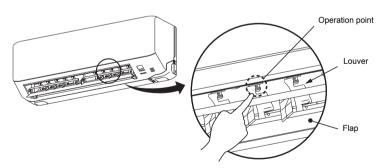
- When in COOL or DRY operation, do not operate for a long period with the airflow blowing straight down. Otherwise, condensation may appear on the outlet grill and drip down.
- Do not try to adjust the flaps by hand, as the control angle may change or the flap may not be closed completely.

Recommended angle of the flap when stopping



Adjusting left/right air flow direction

Adjust the direction by moving the left/right louver by hand. When you adjust the direction, touch the operation point of louver.



⚠ CAUTION —

Please stop the air-conditioner when adjusting the air flow direction.

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.



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4

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 3 hours.



The timer light (yellow) is on.



• The unit stops after the set time lapses.

NOTE

SLEEP TIMER cannot be set simultaneously with OFF TIMER.

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.

OFF TIMER operation

■ The unit stops automatically when the set time comes.
When the air-conditioner is turned off, start the operation from Step 1. When the air-conditioner is running, start from Step 2.

AUTO SUBJECTION OF MODE

FAN SPEED ON/OFF MODE

PO H POWER AR FLOW

ON TIMER OF SLEEP CANCEL

CLEAN & ACL

ACL

Example: You prefer it to stop 22:30.

Press the ON/OFF button.

Press the OFF TIMER button.

OFF TIMER display OFF is blinking.

Press the ⊘ or ⊘ button.

Every time the \bigcirc button is pressed, the display is switched in the order of: $\longrightarrow 0:00 \longrightarrow 0:10 \longrightarrow 0:20 \longrightarrow \cdots \longrightarrow 1:00 \longrightarrow 1:10 \longrightarrow (Units of ten minutes)$

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

 \rightarrow 0:00 \rightarrow 23:50 \rightarrow 23:40 \rightarrow ... \rightarrow 23:00 \rightarrow 22:50 \rightarrow (Units of ten minutes)

Set at 22:30.

4

Press the OFF TIMER button.

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

The timer light (yellow) is on.

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.

NOTE

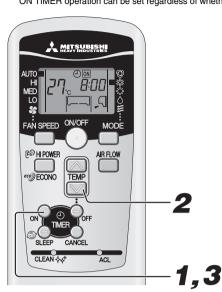
- The unit stops at the end of the set period of time.
- Make sure to press the button within 60 seconds from the last operation in step 3, otherwise the setting is not completed.
- The current time is not displayed during OFF TIMER operation.
- Different from SLEEP TIMER operation, automatic set temperature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



F

Press the ON TIMER button.

ON TIMER display ON is blinking.

2

Press the \bigcirc or \bigcirc button.

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

 \longrightarrow 0:00 \longrightarrow 0:10 \longrightarrow 0:20 \longrightarrow 1:00 \longrightarrow 1:10 \longrightarrow (Units of ten minutes)

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

 \rightarrow 0:00 \rightarrow 23:50 \rightarrow 23:40 \rightarrow ... \rightarrow 23:00 \rightarrow 22:50 \rightarrow (Units of ten minutes)

Set at 8:00



Press the ON TIMER button.

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

The timer light (yellow) is on.

If ON TIMER setting is performed when air-conditioner is running, air-conditioner operation will stop.

NOTE

- · 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.

Changing of set time

Set a new time by using the ON TIMER button.

How to cancel -

Press the CANCEL button to turn off the timer display.

SLEEP TIMER + ON TIMER operation

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



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 14.

Set to

2 ON TIMER operation setting

Set by the above procedure mentioned in ON TIMER.

Set to ON

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

 $\hat{\Box}$

- 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

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

How to cancel

Press the CANCEL button to turn off the timer display.

PROGRAM TIMER operation

■ The timer operations of the combination of ON and OFF TIMER. Once this has been set the timer operations will be repeated at the same time every day unless the ON/OFF button is pressed.



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

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

OFF TIMER operation setting

Set by the procedures on page 14. Set to OFF

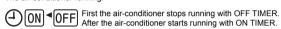
2 ON TIMER operation setting

Set by the procedures on page 15. Set to TITLE

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.
 - First the air-conditioner starts running with ON TIMER.

 After the air-conditioner stops running with OFF TIMER.
- · The air-conditioner running.



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.

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 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 both COOL and HEAT operation mode (including AUTO). It does not work for DRY and FAN mode.
- ► In COOL operation ◀

 (Stop) Operation starts

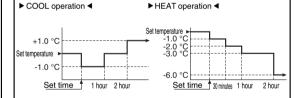
 (Operation)

 Set temperature

 Check the room temp. 60 minutes before.

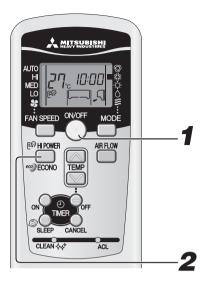
SLEEP TIMER

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



HIGH POWER/ECONOMY operation

■ When the air-conditioner is turned off, start the operation from Step 1. When the air-conditioner is running, start from Step 2.





Press the HI POWER/ECONO button.

switched in the order of:

■ When the operating mode is AUTO, COOL or HEAT

Every time the HI POWER/ECONO button is pressed, the display is switched in the order of:



■ When the operating mode is DRY or PROGRAM TIMER
Every time the HI POWER/ECONO button is pressed, the display is



Concerning HIGH POWER operation

Pressing the HI POWER/ECONO button intensifies the operating power and initiates powerful cooling or heating operation for 15 minutes continuously. The remote control displays (\$\omega\$) and the FAN SPEED display is disappeared.



- During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling or heating, press the HI POWER/ECONO button again to cancel the HIGH POWER operation.
- HIGH POWER operation is not available during the DRY and the program timer operations.
- When HIGH POWER operation is set after 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 POWER/ECONO 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 min. since HIGH POWER operation has started
- Not operable while the air-conditioner is OFF.

- Concerning ECONOMY operation

Pressing the HI POWER/ECONO 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 is disappeared.



- It will go into ECONOMY operation at the next time the air-conditioner runs in the following case.
 - ① When the air-conditioner is stopped by ON/OFF button during 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 operation.
- When the following operations are set, ECONOMY operation will be canceled.
 - ① When the HI POWER/ECONO button is pressed again.
 - ② When the operation mode is changed from DRY to FAN.
- Not operable while the air-conditioner is OFF.

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.



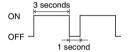


In order to active SELF CLEAN operation, press the CLEAN switch with the tip of a ballpoint pen.

Every time the CLEAN switch is pressed, the display is switched in the order of:

NOTE

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



- Pressing the SLEEP button during SELF CLEAN operation cancels the SELF 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

- 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.

Maintenance

Before maintenance

Turn off the power source.



- Do not spill any liquid to the unit.
- 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 items:

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



2 Cleaning

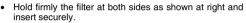
If the filter is very dirty, clean it with warm water (approx. 30 $^{\circ}$ C), and dry it thoroughly.

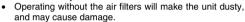
△ CAUTION

- 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





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

 The panel can be washed with water. After washing with water, wipe any moisture off the panel and dry it out of direct sunlight.



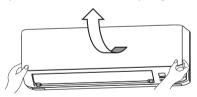
How to open and close the air inlet panel

Oper

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 70 degrees.

Close

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



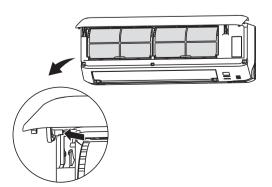
How to remove and install the air inlet panel

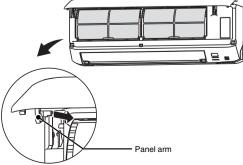
Removing

When removing the air inlet panel for internal cleaning or others, open the panel by 90 degrees and then pull it forward.

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







• 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 end of the season

Perform the fan operation for 2 to 3 hours.

Dry the inside of the unit.

9 Stop the unit and turn off the power source.

The unit consumes approx. 4 W 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 Make sure that 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.

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 22, or if things happen as shown below, switch off the power and contact your dealer.

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 noise is heard 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 seconds ON; 0.5 seconds OFF) or the lights do not work.

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

Noise

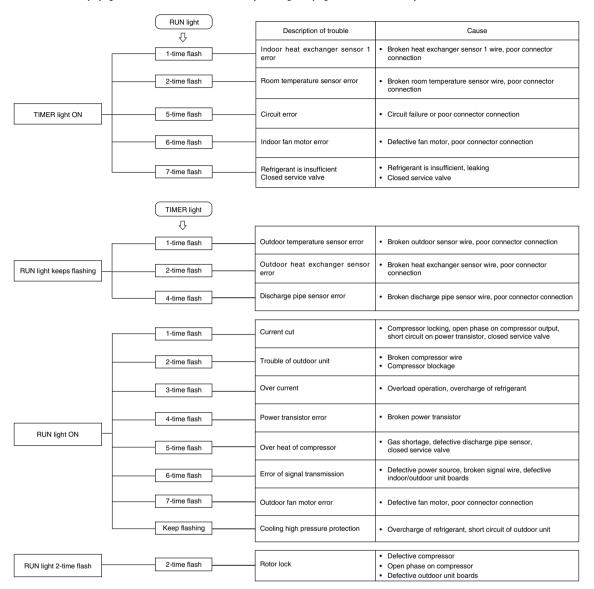
You hear a slight gurgling sound.	This is caused by refrigerant moving within the unit.
You hear a slight cracking sound.	This is caused by heat expansion or contraction.
You hear a hissing or clicking sound.	This is caused by the operation of the refrigerant control valves or electric components.
Whistling noise is heard from the outdoor unit.	This means that the rotation speed of the compressor is increasing or decreasing.

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.

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





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