REMOTE CONTROL

PROGRAMMING AND OPERATING MANUAL

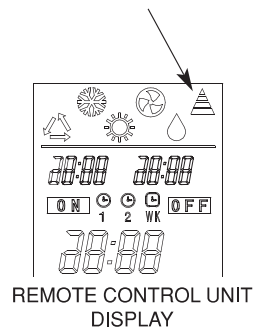# USING THE REMOTE CONTROL UNIT

HOW TO INSTALL BATTERIES

● Remove the lid in the rear part of the remote control unit.

● Insert two AAA alkaline batteries of 1,5 V-DC.

  Make sure the batteries point in the direction marked in the battery compartment.

● The batteries last about six months. Depending on how much you use the remote control unit.

  Remove the batteries if you do not use the remote control unit for more than one month.

  Press the +, -, SET and CLEAR buttons together after batteries replacement.

  (This operation allows you to reset correctly all the programs. The remote control unit is to be set up again).

  Replace the batteries when the remote control unit lamp fails to light, or when the air conditioner does not receive the remote control unit signals.

● The batteries of the remote control contain polluted substances exhausted batteries must be disposed according to the laws in force.

TEMPERATURE SENSOR SELECTOR

● Under normal conditions the room temperature is detected and checked by the temperature sensor placed in the air conditioner.

● Press the remote control I FEEL button to activate the temperature sensor placed in the remote control. This function is designed to provide a personalised environment by transmitting the temperature control command from the location next to you. Therefore, in using this function, the remote control should always be aimed, without obstruction, at the air conditioner.

NOTE

The remote control unit sends the temperature signal to the air conditioner regularly at two minute intervals. If the signal from the remote control unit stops for more than five minutes due to some troubles, the air conditioner will switch to the temperature sensor which is built into the indoor unit and controls the room temperature. In these cases, the temperature around the remote control unit may differ from the temperature detected in the air conditioner position.

REMOTE CONTROL UNIT DISPLAY

OPERATION WITH THE REMOTE CONTROL UNIT

CAUTION

Check that the circuit breaker on the power panel is turned ON and the the STANDBY lamp is light up.
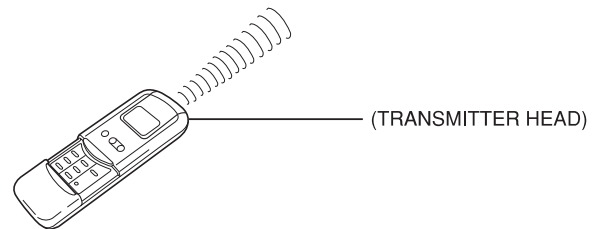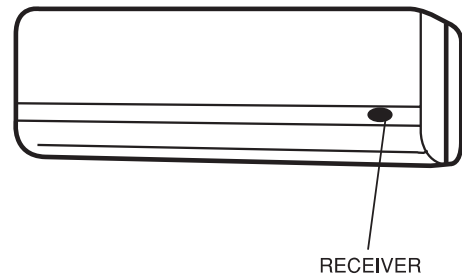
When using the remote control unit, always point the unit transmitter head directly at the air conditioner receiver.

HOW TO TURN ON THE AIR CONDITIONER
Press the ON/OFF button to turn the air conditioner on. The indicator OPERATION will light up, indicating the unit is in operation.

INDOOR UNIT

RECEIVER

(TRANSMITTER HEAD)

REMOTE CONTROL UNIT

REMOTE CONTROL UNIT

DISPLAY

Information are displayed when the remote control unit is switched on.

Operation Mode

⌂ Automatic

❄ Cooling

☀ Heating

◊ Dehumidification (dry)

❀ Fan only

Displayed when data trasmitted
Or remote control unit lock

Shows the type of timer

Displayed when the timer on is set and activated

Displayed when the timer off is set and activated

Clock (hours and minutes)

Set temperature or room temperature

Displayed in Sleep Mode Operation

Displayed when the temperature is the room temperature

Automatic flap oscillation switched on

Indicate that the air conditioner is operating in I FEEL mode

Fan speed indication

AUTO Automatic fan speed

⊕ High speed

⊗ Medium speed

⊖ Low speed

EG

TRANSMITTER

When you press the buttons of the remote control unit, the ▲ mark appears on the display to transmit the setting changes to the receiver in the air conditioner.

SENSOR

A temperature sensor inside the remote control unit detects the room temperature.

TEMPERATURE SETTING BUTTONS

— (cooler)
Press this button to decrease the set temperature.

+ (warmer)
Press this button to increase the set temperature.

FAN SPEED SELECTOR BUTTON

AUTO Fan speed is automatically selected by the microcomputer.

⊕ High speed.

⊗ Medium speed.

⊖ Low speed.

ON/OFF OPERATION BUTTON

This button turns the air conditioner ON and OFF.

MODE SELECTOR BUTTON

Press this button to modify the air conditioner mode.

⌂ **(automatic)** ★

When this setting is selected, the air conditioner calculates the difference between the thermostat setting and the room temperature and automatically switches to the "cool" or "heat" mode.

☀ **(heating)** ★

The air conditioner makes the room warmer.

◊ **dehumidification (dry)**

The air conditioner reduces the humidity in the room.

❄ **(cooling)**

The air conditioner makes the room cooler.

❀ **(fan)**

The air conditioner circulate the air.

★ **COOL / DRY / HEAT / FAN Models**

SLEEP BUTTON

For details, see "Sleep mode".
When you press this button in the COOL, HEAT or DRY mode, the mark ☾ appears on the display and the microcomputer in the remote control unit will adjust the set temperature to save energy.

TEMPERATURE SENSOR SELECTOR

Push IFEEL button to activate the temperature control in the remote control unit. This function provides a more confortable temperature control.

SET BUTTON

Push this button to select the functions:
• set the present time
• set the ON-OFF timer
For detail see "HOW TO SET THE PRESENT TIME" and "SETTING THE TIMER".

TIMER AND PRESENT TIME SETTING BUTTONS

Pushing + or - buttons the setting of the time and timer can be activated. For detail see "HOW TO SET THE PRESENT TIME" and "SETTING THE TIMER".

TIMER BUTTON (timer setting)

Push the TIMER on the display starts the timer ON and OFF setting procedure.
For detail see "SETTING THE TIMER".

LOCKING THE REMOTE CONTROL

Pushing this button freezes the last operation setting. When ⇌ is activated the remote control will not be able to control the air conditioner. To release the lock status push ⇌ again.

FLAP SPEED SELECTORS

Press this button to select the desidered flap sweep function.

⟳ : The flap moves up and down automatically.

⟲ : Every time you push the button the flap moves one step.

ROOM TEMPERATURE

Push the ROOM button to show the actual room temperature around the remote control.

TIMER RESET

Push the CLEAR button to cancel all timer setting.
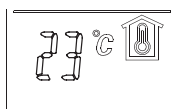
HOW TO SET THE PRESENT TIME

1. Press the SET button for five seconds. The time indication alone flashes.

2. Press the + or - buttons until the present time is displayed.

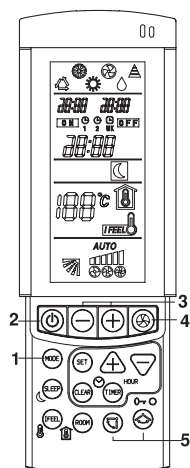3. Press the SET button to stop the indication flashing.

COOLING

NOTE

Verify that the unit is connected to the main power and the STANDBY lamp is light up.

1. Set the MODE selector to COOL [❄] .
2. Press the ON/OFF button and switch the air conditioner ON.
3. Press the TEMP. buttons (**3**) to set the desired temperature (the temperature range is between 30 °C max. and 16 °C min.).
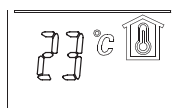
THE DISPLAY SHOWS THE SELECTED TEMPERATURE.

4. Press the FAN SPEED button to select the fan speed.

5. Press the FLAP buttons and adjust the air flow direction as desired (see adjustment of air flow). Make sure that the remote control is switched on. Press the FLAP button to select automatic swing or one of the six manual settings.

HEATING COOL / DRY / HEAT / FAN Models

1. Set the MODE selector to HEAT [☼] .
2. Press the ON/OFF button and switch the air condioner ON.
3. Press the TEMP. buttons (**2**) to set the desired temperature (the temperature range is between 30 °C max. and 16 °C min.).

THE DISPLAY SHOWS THE SELECTED TEMPERATURE.

4. Press FAN SPEED selector button to the setting you want.

5. Press the FLAP button and adjust the air flow direction as desired (see adjustment of air flow). Make sure that the remote control is switched on. Press the FLAP button to select automatic swing or one of the six manual settings.

NOTE

For several minutes after the start of heating operation, the indoor fan will not run until the indoor heat exchanger coil has warmed up sufficiently. This is because the COLD DRAFT PREVENTION SYSTEM is operating.

DEFROSTING OF HEAT EXCHANGER OUTDOOR UNIT "STANDBY"

When the outdoor temperature is low, frost or ice may appear on the heat exchanger coil, reducing the heating performance. When this happens, a microcomputer defrosting system operates. At the same time, the fan in the indoor unit stops and the OPERATION lamp is flashing until defrosting is completed. Heating operation restarts after several minutes. (This interval will vary slightly depending on the room and outdoor temperature).
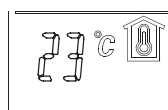
HEATING PERFORMANCE

A heat pump conditioner heats a room by taking heat from outside air. The heating efficiency will fall off when the outdoor temperature is very low. If enough heat is not obtained with this air conditioner, use another heating appliance in conjunction with it.

AUTOMATIC OPERATION

COOL / DRY / HEAT / FAN Models

1. Set the MODE selector to AUTO [⬦] .
2. Press the ON/OFF button and switch the air condioner ON.
3. Press the TEMP. (**2**) buttons to set the desired temperature (the temperature range is between 30 °C max. and 16 °C min.).
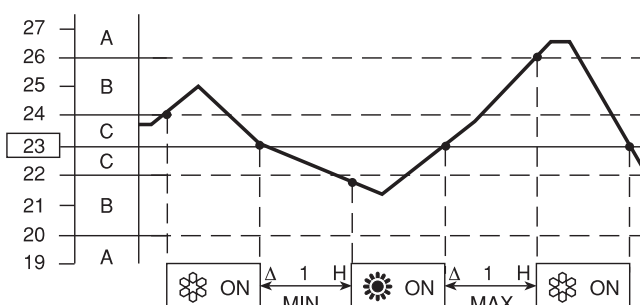
THE DISPLAY SHOWS THE SELECTED TEMPERATURE.

When this setting is selected, the air conditioner calculates the difference between the thermostat setting and the room temperature and automatically switches to the COOL or HEAT mode as appropriate.

4. Switch the FAN SPEED selector button to the setting you want.

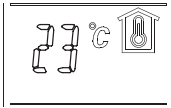Example of operation diagram in the ⬦ (Auto) mode with the set room temperature at **23°C**.

The air conditioner changes the operation mode (from cool to heat or vice versa, if one of the following conditions occurs:
- **ZONE A:** changes if the difference between the room temperature and the temperature set on the remote control unit is at least 3°C..
- **ZONE B:** changes if the difference between the room temperature and the temperature set on the remote control unit is at least 1°C, one hour after the compressor stop.
- **ZONE C:** never changes if the difference between the room temperature and the temperature set on the remote control unit is no more than 1°C.

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DEHUMIDIFYING (DRY)

1. Set the MODE selector switch to "DRY" [◊] .
2. Press the ON/OFF button and switch the air condioner ON.
3. Press the TEMP. (**2**) buttons to set the desired temperature (the temperature range is between 30 °C max. and 16 °C min.).

THE DISPLAY SHOWS THE SELECTED TEMPERATURE.

● Use DRY operation when you want to reduce the humidity in the room.
● Once the room temperature reaches the set level, the unit repeats the cycle of turning on and off automatically.
● During DRY operation, the fan speed is automatically set to low or stops to prevent overcooling.
● Dry operation is not possible if the indoor temperature is 15 °C or less.

FAN ONLY

If you want to make air circulate without any temperature control, follow these steps:

1. Set the MODE selector switch to "FAN" [✿] .
2. Press the ON/OFF button and switch the air conditioner ON.

ADJUSTING THE FAN SPEED

AUTOMATIC

Simply set the FAN SPEED selector to the [AUTO] position . A microcomputer automatically controls the fan speed when the AUTO mode is selected. When the air conditioner starts operating, the difference between the room temperature and the set temperature is detected by the microcomputer which then automatically switches the fan speed to the most suitable level.

In FAN Only mode the fan speed is adjusted automatically as in cooling mode.

WHEN DIFFERENCE BETWEEN ROOM TEMPERATURE AND SET TEMPERATURE IS		FAN SPEED
Cooling and dehumidifying modes:	2 °C and over	High
	Between 2 and 1 °C	Medium
	Below 1 °C	Low
Heating mode:	2 °C and over	High
	Below 2 °C	Medium

The above mentioned data make reference to the conditioner operating when the sensor on the remote control unit is ON. (Refer to temperature sensor selector). If the sensor on the indoor unit is being used then actual operation will slightly differ from that described in the above tables. (▲) Sign shown on the remote control unit display).

MANUAL

If you want to manually adjust speed just set the FAN SPEED selector as desired.

[✿] High speed   [✿] Med. speed   [⊖] Low speed

SLEEP MODE

● The SLEEP mode enables you to save energy.
1. Set the MODE selector to cool, dry or heat.
2. Press the SLEEP button.
3. The [☾] mark appears on the display. Press the SLEEP button again to release the SLEEP function.
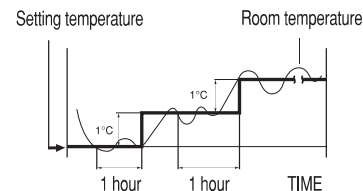
What does the SLEEP mode mean?
In this mode, the air conditioner will cool or heat the room to the set temperature, and then the thermostat will make the unit pause. After about 1 hour, the air conditioner will automatically reset the set temperature as follows (also refer to graphs).
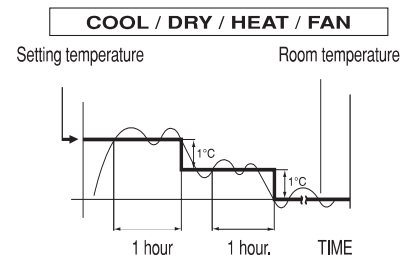
OPERATING MODE	SET TEMPERATURE CHANGE
Heating	Lowered by 1 °C
Cooling and Dehumidifying	Raised by 1 °C

When the room temperature reaches the new set value, the thermostat will cause the unit to pause. After about 1 hour the temperature will be raised by 1 °C in cooling, or lowered by 1 °C in heating. This enables you to save energy without sacrificing your comfort.

COOLING AND DEHUMIDIFYING

Setting temperature   Room temperature

1°C

1°C

1 hour   1 hour   TIME

HEATING

COOL / DRY / HEAT / FAN

Setting temperature   Room temperature

1°C

1°C

1 hour   1 hour.   TIME

SETTING THE TIMER

There are four timers that can be selected on the remote control.Two daily timers (designated as T1,T2) ,and two optional weekend timers (designated as WKTI, WKT2) .Each timer can be selected by pressing TIMER button (2).

The daily timers T1 and T2 can be set for ON and OFF separately for two different time periods.
Timer setting will not change until new setting is input.

The weekend timers WKT1 and WKT2 can be set for ON and OFF separately for two different time periods and they are effective two days only. These timers will be effective on the day of setting and on the day after only.
At 24:00 on the second day, the WK timer will not be effective anymore and the daily timer will be effective again.

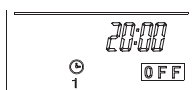WKTI - effective on the setting day
WKT2 - effective one day after the setting day.

NOTE:
1. During the weekend timer operation, the daily timers will be disabled.
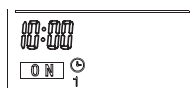2. The WK timers must be reactivated before every weekend.

A) HOW TO SET THE OFF TIME
1. Press the TIMER button to select the desired timer.
2. Press the SET and CLEAR buttons till the OFF sign blinks.
3. Press the + or - (HOUR) button until the desired value is displayed.
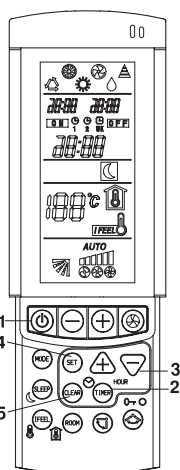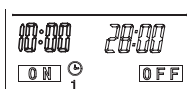4. Press the SET button to activate the timer.

B) HOW TO SET THE ON TIME
1. Press the TIMER button to select the desired timer.
2. Press the SET button till the ON sign blinks.
3. Press the + or - (HOUR) button until the desired value is displayed.
4. Press the SET and CLEAR buttons to activate the timer.

C) HOW TO SET A PROGRAM FOR DAILY ON/OFF OPERATION (OR VICEVERSA)
1. Press the TIMER button to select the desired timer.
2. Press the SET button till the ON sign blinks.
3. Press the + or - (HOUR) button until the desired value is displayed.
4. Press the SET button again, the OFF sign blinks.
5. Press the + or - (HOUR) button until the desired value is displayed.
6. Press the SET button to activate the timer.

D) HOW TO CLEAR THE TIMER
1. Press the TIMER button to select the timer.
2. Press the CLEAR button if you want that every timer operation will be cleared.

If the procedure to set the timer is not completed, by pushing the SET button, within 15 seconds the timer operation will be cancelled and the last set-up is restored.

EG

ADJUSTING THE AIR FLOW DIRECTION

HORIZONTAL (manual)

The horizontal air flow can be adjusted by moving the vertical vanes to the left or right, as indicated in the following figures.

VERTICAL (with remote control unit)

The remote control gives you the possibility to control the flap in two way:

1. Push the (⚙) button to start the flap sweep. If you push again the flap stops immediately.

2. Push the (⚙) button to move the flap step by step.
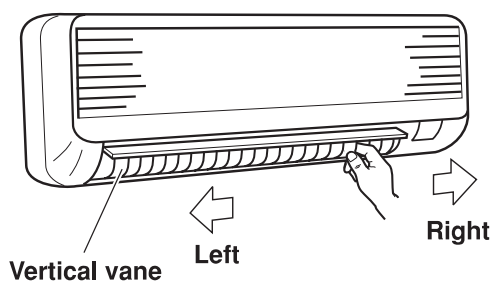
⚠ **CAUTION**

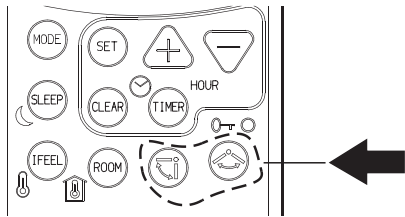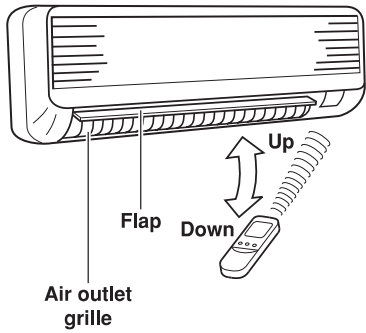Set vertical vanes to the front position during COOLING/DRY operation if humidity is high.
If the vertical vanes are set to the left-most or right-most position, condensation will form around the air outlet and drip off.

⚠ **CAUTION**

Do not move the flap with your hands when the air conditioner is running.

Vertical vane **Left** **Right**

Up
Flap Down
Air outlet
grille

Sweep function
The flap starts moving up and down to deliver air over the sweep range.

- The flap automatically closes when the unit is off.
- During the heating operation, the fan speed will be very low and the flap will be in the horizontal position (position ⑥) until the air being blown out of the unit begins to warm. Once the air warms up, the flap position and fan speed change to the settings specified with the remote control.

⚠ **CAUTION**

- Use the FLAP button on the remote control to adjust the position of the flap. If you move the flap by hand, the factual flap position and the flap position on the remote control may no longer match. If this should happen, shut off the unit, wait for the flap to close, and then turn on the unit again; the flap position will now be normal again.
- Do not have the flap pointed down during cooling operation. Condensation may begin to form around the air vent and drip down.

OPERATION WITHOUT THE REMOTE CONTROL UNIT

If you have lost the remote control unit or it has troubles, follow the steps below.

1. WHEN THE AIR CONDITIONER IS STOPPED
If you want to turn on the air conditioner push the MODE button with a pen to select the desired mode (COOL or HEAT).
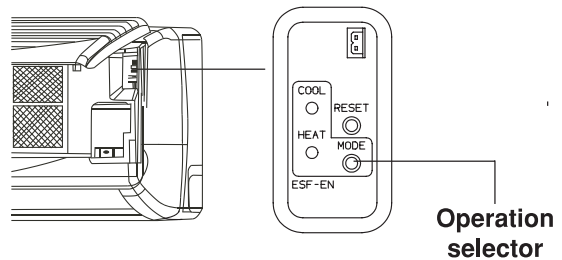
NOTE

The air conditioner will start in automatic fan speed and flap sweep operation. The temperature setting is 22°C for cooling mode and 26°C for heating mode.

2. WHEN THE AIR CONDITIONER IS RUNNING

If you want to turn off the air conditioner push the MODE button with a pen until the COOL or HEAT lamp is turned off.

NOTE

Power failure during operation.
In the event of power failure, the unit will stop. When the power is resumed, the unit will restart automatically after 3 minutes.

COOL
RESET
HEAT
MODE
ESF-EN

Operation selector

CARE AND CLEANING

⚡ **WARNING**

● For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning.

● Do not pour water on the indoor unit to clean it. This will damage the internal components and cause an electric shock hazard.

CASING AND GRILLE (INDOOR UNIT)

Clean the casing and grille of the indoor unit with a vacuum cleaner brush, or wipe them with a clean, soft cloth.
If these parts are stained, use a clean cloth moistened with a mild liquid detergent.
When cleaning the grille, be careful not to force the vanes out of place.

The air intake grille can be removed in order to wash it with water.

⚠ **CAUTION**

● Never use solvents, or harsh chemicals when cleaning the indoor unit. Do not wipe the plastic casing using very hot water.
● Some metal edges and the vanes are sharp and may cause injury if handled improperly; be especially careful when you clean these parts.
● The internal coil and other components of the outdoor unit must be cleaned every year. Consult your dealer or service centre.

Part No: