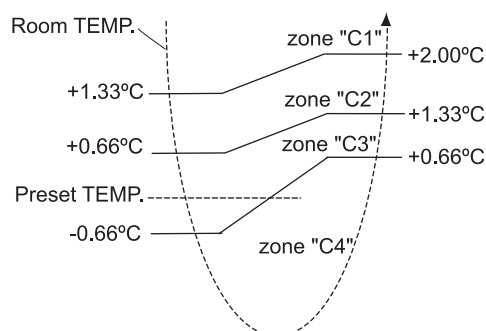# CHAPTER 3. FUNCTIONS

[1] FUNCTION

1. ROOM TEMPERATURE CONTOROL

In the "COOL" mode and "DRY" mode, the room temperature is controlled by 4 control zone(C1~ C4) as following the figure.

This figure shows the difference between the preset temperature and room temperature (preset TEMP.-room TEMP.).

MODE	Control zone	Indoor fan motor fan speed (auto fan selected)	Compressor	Outdoor fan motor
DRY	C1	Dry "H"	ON	ON
	C2	Dry "H"	ON	ON
	C3	Dry "L"	ON	ON
	C4	OFF or Dry "L"	OFF	OFF
COOL	C1	Cool "Auto H"	ON	ON
	C2	Cool "Auto M"	ON	ON
	C3	Cool "Auto L"	ON	ON
	C4	Cool "Auto L"	OFF	OFF

Indoor fan motor revolutions per minute	AH-AP18/A18 (rpm)
Dry "L"	790
Dry "H"	900
Cool "L"	790
Cool "Auto L"	900
Cool "Auto M" or "M"	1000
Cool "Auto H"	1100
Cool "H"	1150

2. FREEZE PREVENTIVE

When the indoor pipe temerature falls below 0°C in cool or dry operation more than 4 minutes or, the compressor is turned off. When the indoor pipe temperature rises above 2°C in cool or dry operation more than 3 minutes. the compressor is turned on.

3. TEST RUN

If the "AUX" button on the unit is pressed for 5 seconds or more during operation, cool test operation starts. The operation LED (red) flickers during test run.

In cool mode continuous compressor on operation is performed. In dry mode the operation is in dehumidifying zone.

4. TIMER

4.1. OFF Timer

In cool or dry operation, preset temperature is shifted 1°C higher than the initial setting by stages.(+0.33°C in 1h, +0.66°C in 1.5h, +1°C in 2h)

Tthe unit starts pre-running to cool a room up to 1 hours before the designated time. This timing will differ depending on the room temperature to reach the target temperature by the target time.

4.2. 1 ONE-HOUR OFF timer

By setting "ONE-HOUR timer", the unit is automatically powered off in 1hour.

"ONE-HOUR timer" function has a priority over other functions, "ON timer" and "OFF timer".

When setting "ONE-HOUR timer" again during this operation, the 1 hour counter is reset and the unit will be powered off in 1hour from then.

5. AUTOMATIC AIR CONDITIONING

When automatic air conditioning is selected, the operation mode and preset temperature are set automatically according to the room temperature on starting operation.

Room temperature at operation start	Operation Mode	Preset Temperature
Above 28°C	COOL	26°C
26°C - 28°C		25°C
24°C - 26°C		24°C
Below 24°C	DRY	Room temperature at operation start

6. POWER ON START

If the connecting wire "POWER ON" (P0JP) is put on the PWB assembly, when the power is supplied by turning on a circuit breaker, the air conditioner automatically starts of operation in "AUTO".
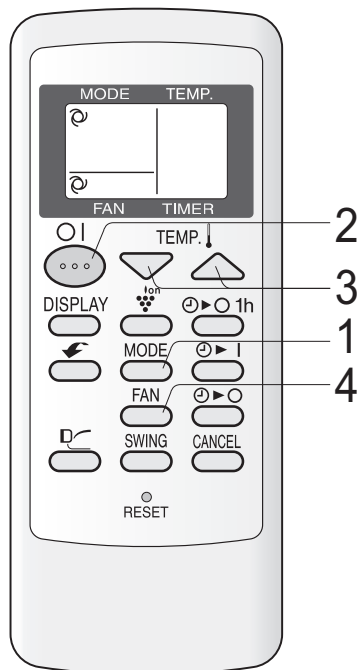
(Refer to Printed Wiring Board.)
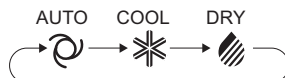
7. AUTO RESTART

7.1. When JPO is ON

Power failure occurs during operation, the unit will restart in the same operation mode as before recovery.

7.2. When JPO is OFF

Auto restart function is not available.

[2] OPERATION MANUAL

1. AH-AP18MMW

<div style="background:black; color:white">

BASIC OPERATION

</div>

1 Press the MODE button to select the operation mode.

AUTO   COOL   DRY

2 Press the ON/OFF button to start operation.
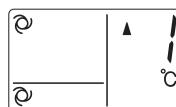
• The red OPERATION lamp (▤) will light up.
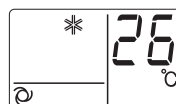
<u>**TO TURN OFF**</u>

Press the ON/OFF button again.

• The red OPERATION lamp (▤) will turn off.

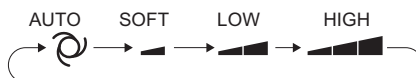**3 Press the THERMOSTAT button to set the desired temperature.**

(AUTO/DRY mode)
The temperature can be changed up to ±2 °C the automatically set of temperature.

(COOL mode)
The temperature setting range:
16-30°C.

4 Press the FAN button to set the desired fan speed.

AUTO   SOFT   LOW   HIGH

NOTE:

AUTO MODE
In the AUTO mode, the temperature setting and mode are automatically selected according to the room temperature when the unit is turned on.

DRY MODE
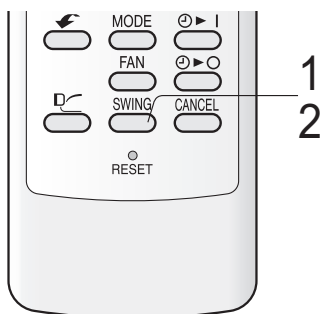The fan speed is preset to AUTO and cannot be changed.

WHEN POWER FAILURE OCCURS
This air conditioner has a memory function to store settings when a power failure occurs.
After power recovery, the unit will automatically re-start in the same settings which were active before the power failure, except for timer settings.
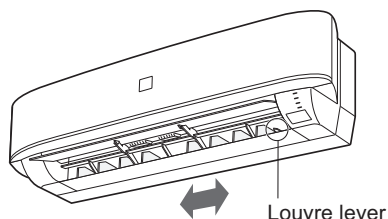
ADJUSTING THE AIR FLOW DIRECTION

VERTICAL AIR FLOW DIRECTION

1 Press the SWING button.
• The vertical airflow louvre will swing.

2 Press the SWING button again to stop the desired position.
• The adjustment range is narrower the swing range in order to prevent condensation from dripping.

HORIZONTAL AIR FLOW DIRECTION

Hold the horizontal airflow louvre lever and adjust the air flow direction.

Louvre lever

CAUTION:
Never attempt to adjust the vertical airflow louvre manually.

• Manual adjustment of the vertical airflow louvre can cause the unit to malfunction.

• When the vertical adjustment louvre is positioned at the lowest position in the COOL or DRY mode for an extended period of time, condensation may result.

SUPER JET OPERATION

The air conditioner works at the maximum power and optimum louvre direction to makes the room cool rapidly.

1 During operation, press the SUPER JET button.
• The remote control will display " ☞ ".
• The temperature display will go off.
• The green SUPER JET lamp (☞) will light up.
• The vertical airflow louver will be set obliquely downward.
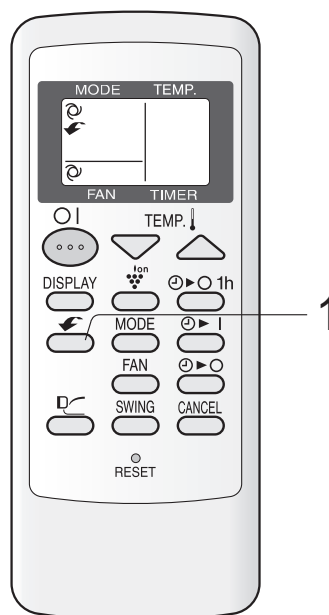
TO CANCEL
Press the SUPER JET button again.
• The green SUPER JET lamp (☞) will turn off.
• The vertical airflow louvre will return to the original direction.

NOTE:
• The air conditioner will operate at "Extra HIGH" fan speed for 30 minutes, and then shift to "HIGH" fan speed.
• You can not set the temperature or fan speed during the SUPER JET operation.
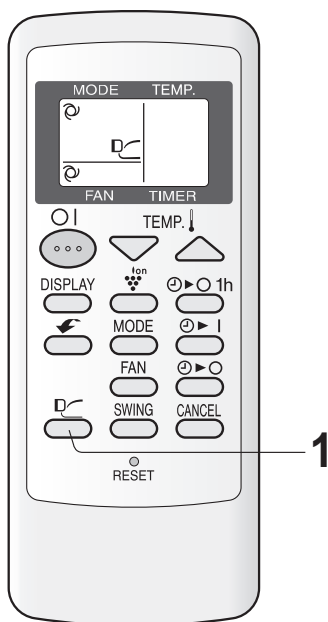
GENTLE COOL AIR

The vertical airflow louvre is set obliquely upward to deliver cool air to the ceiling in order to avoid direct airflow.

1 During operation, press the GENTLE COOL AIR button.

• The remote control will display " D ".

TO CANCEL

Press the GENTLE COOL AIR button again.

NOTE:
• If you want GENTLE COOL AIR operation in SUPER JET mode, press GENTLE COOL AIR button during SUPER JET operation.

PLASMACLUSTER OPERATION

Plasmacluster ions released into the room will reduce some airborne mold.

1 During operation, press the PLASMACLUSTER button.

• The remote control will display " ".

• The blue PLASMACLUSTER lamp ( ) will light up.

TO CANCEL

Press the PLASMACLUSTER button again.

• The blue PLASMACLUSTER lamp ( ) will turn off.
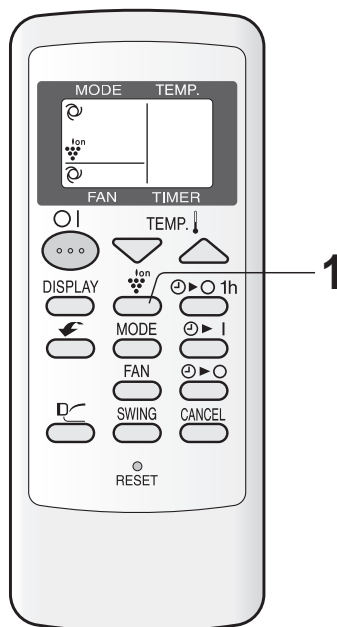
NOTE:
• Use of the PLASMACLUSTER operation will be memorized, and it will be activated the next time you turn on the unit.
• To perform Plasmacluster operation in FAN only mode, press the PLASMACLUSTER button when the unit is not operating.
  The mode symbol of the remote control will go off and the fan speed cannot be set to AUTO.

TIMER OPERATION

TIMER OFF

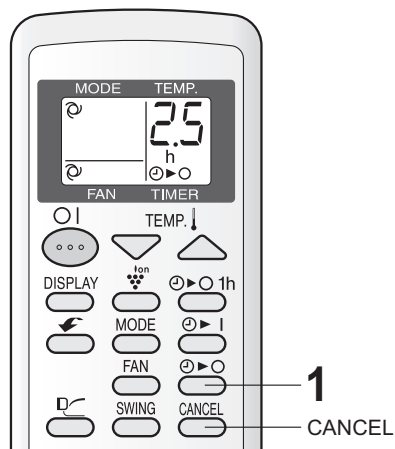**1** **Press the TIMER OFF button and set the time as desired.**

0.5h → 1.0h → 1.5h ⋯→ 10h → 11h → 12h

- The orange TIMER lamp (🕐) will light up.
- The time setting will count down to show the remaining time.

TO CANCEL

Press the CANCEL button.

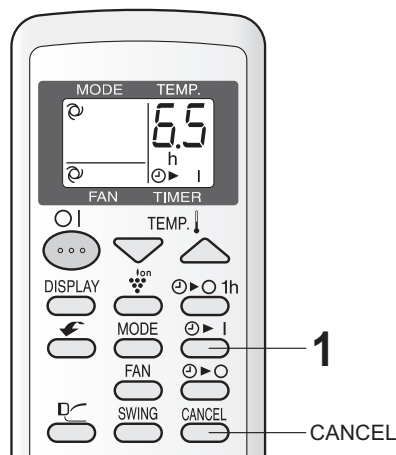- The orange TIMER lamp (🕐) will turn off.

TIMER ON

1 **Press the TIMER ON button and set the time as desired.**

0.5h → 1.0h → 1.5h ⋯→ 10h → 11h → 12h

- The orange TIMER lamp (🕐) will light up.
- The time setting will count down to show the remaining time.

TO CANCEL

Press the CANCEL button.

- The orange TIMER lamp (🕐) will turn off.

NOTE:

- Timer duration can be set from a minimum half an hour to a maximum of 12 hours. Up to 9.5 hours, you can set in half-hour increments, and from 10 to 12 hours, in 1-hour increments.
- The TIMER OFF and TIMER ON can not be set together.
- The ONE-HOUR OFF TIMER operation has priority over TIMER ON and TIMER OFF operations.
- When the temperature is set during timer setting, the temperature will show in the display for 5 seconds and then return to the timer display.
- If a power failure occurs while the TIMER is set, the TIMER setting will be cancelled and will not be retrieved even after the power is restored.

TIMER OFF

- When the TIMER OFF is set, the temperature setting is automatically adjusted to prevent the room from becoming excessively cold while you sleep. (Auto Sleep function) One hour after the time operation begins, the temperature setting rises 1°C higher than the original temperature setting.

TIMER ON

- The unit will turn on prior to the set time to allow the room to reach the desired temperature by the programmed time. (Awaking function)

ONE-HOUR OFF TIMER

When the ONE-HOUR OFF TIMER is set, the unit will automatically turn off after one hour.
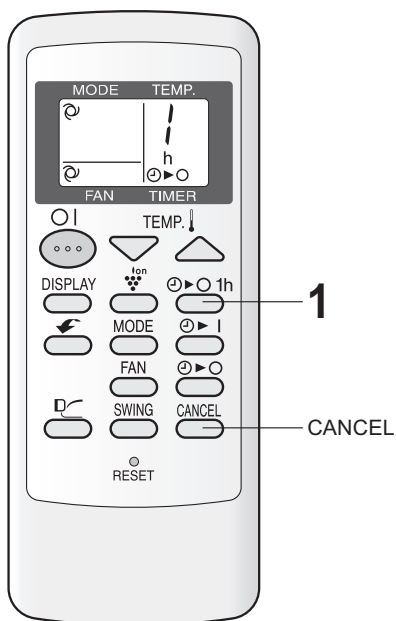
1 **Press the ONE-HOUR OFF TIMER button.**

• The remote control will displays " ".

• The orange TIMER lamp ( ) will light up.

TO CANCEL

Press the CANCEL button.

• The orange TIMER lamp ( ) will turn off.

1

CANCEL

NOTE:
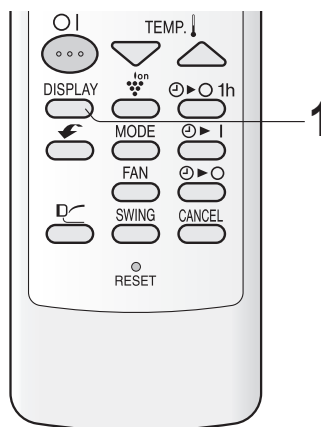
• The ONE-HOUR OFF TIMER operation has priority over TIMER ON and TIMER OFF operations.

• If the ONE-HOUR OFF TIMER is set while the unit is not operating, the unit will operate for an hour at the formerly set condition.

• If you wish to operate the unit for another hour before the ONE-HOUR OFF TIMER is activated, press the ONE-HOUR OFF TIMER button again during operation.

DISPLAY BUTTON

Use when the lamps on the unit are too bright. (The red OPERATION lamp and the orange TIMER lamp cannot be turned off.)

1 **During operation, press the DIS-PLAY button.**

• The blue PLASMACLUSTER lamp ( ) and/or the green SUPER JET lamp ( ) will turn off.
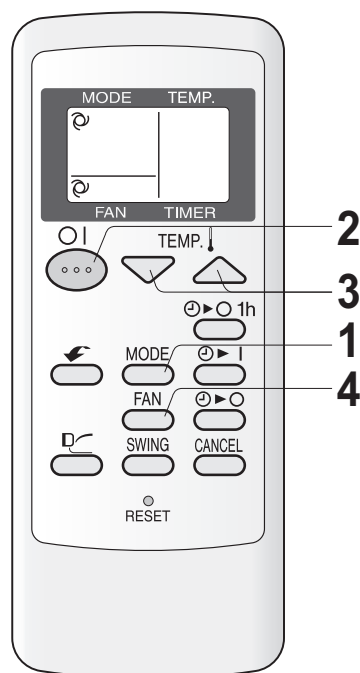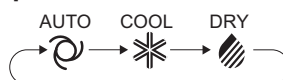
TO LIGHT UP

Press the DISPLAY button again.

1

2. AH-A18MEW

BASIC OPERATION

1 **Press the MODE button to select the operation mode.**

AUTO   COOL   DRY

2 **Press the ON/OFF button to start operation.**
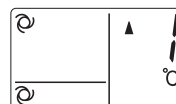
• The red OPERATION lamp (☰) will light up.

TO TURN OFF
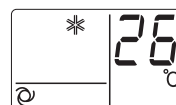
Press the ON/OFF button again.

• The red OPERATION lamp (☰) will turn off.

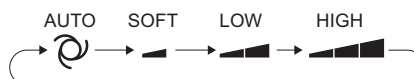**3** **Press the THERMOSTAT button to set the desired temperature.**

(AUTO/DRY mode)
The temperature can be changed up to ±2 °C the automatically set of temperature.

(COOL mode)
The temperature setting range:
16-30°C.

4 **Press the FAN button to set the desired fan speed.**

AUTO   SOFT   LOW   HIGH

NOTE:

AUTO MODE

In the AUTO mode, the temperature setting and mode are automatically selected according to the room temperature when the unit is turned on.

DRY MODE

The fan speed is preset to AUTO and cannot be changed.

WHEN POWER FAILURE OCCURS

This air conditioner has a memory function to store settings when a power failure occurs.
After power recovery, the unit will automatically re-start in the same settings which were active before the power failure, except for timer settings.
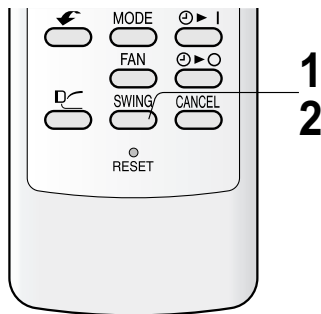
ADJUSTING THE AIR FLOW DIRECTION

VERTICAL AIR FLOW DIRECTION

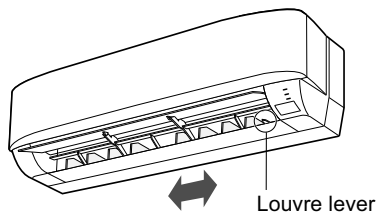**1 Press the SWING button.**

• The vertical airflow louvre will swing.

2 Press the SWING button again to stop the desired position.

• The adjustment range is narrower the swing range in order to prevent condensation from dripping.

HORIZONTAL AIR FLOW DIRECTION

Hold the horizontal airflow louvre lever and adjust the air flow direction

Louvre lever

CAUTION:

Never attempt to adjust the vertical airflow louvre manually.

• Manual adjustment of the vertical airflow louvre can cause the unit to malfunction.
• When the vertical adjustment louvre is positioned at the lowest position in the COOL or DRY mode for an extended period of time, condensation may result.

SUPER JET OPERATION

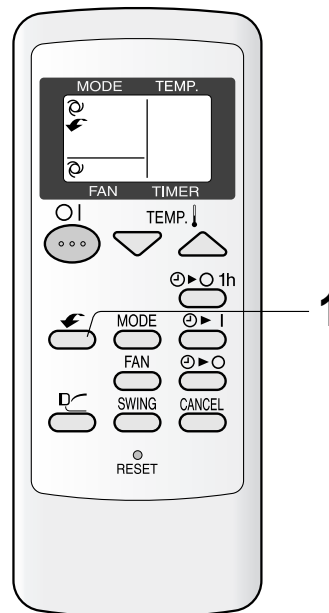**The air conditioner works at the maximum power and optimum louvre direction to makes the room cool rapidly.**

1 During operation, press the SUPER JET button.

• The remote control will display " ". The temperature display will go off. The green SUPER JET lamp ( ) will light up.
  The vertical airflow louvre will be set obliquely downward

TO CANCEL

Press the SUPER JET button again.

• The green SUPER JET lamp ( ) will turn off.
• The vertical airflow louvre will return to the original direction.

NOTE:

• The air conditioner will operate at "Extra HIGH" fan speed for 30 minutes, and then shift to "HIGH" fan speed.
• You can not set the temperature or fan speed during the SUPER JET operation.
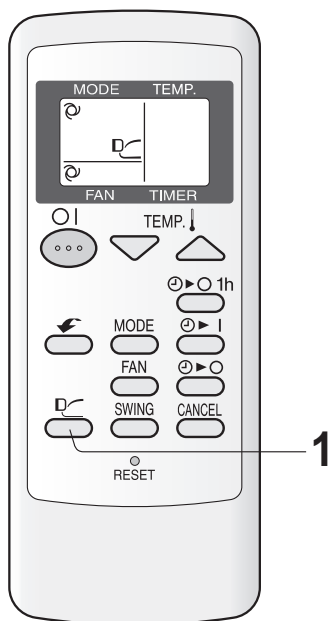
GENTLE COOL AIR

The vertical airflow louvre is set obliquely upward to deliver cool air to the ceiling in order to avoid direct airflow.

1 **During operation, press the GENTLE COOL AIR button.**

• The remote control will display " ⌐ ".

**TO CANCEL**

Press the GENTLE COOL AIR button again.

NOTE:
• If you want GENTLE COOL AIR operation in SUPER JET mode, press GENTLE COOL AIR button during SUPER JET operation.

ONE-HOUR OFF TIMER

When the ONE-HOUR OFF TIMER is set, the unit will automatically turn off after one hour.
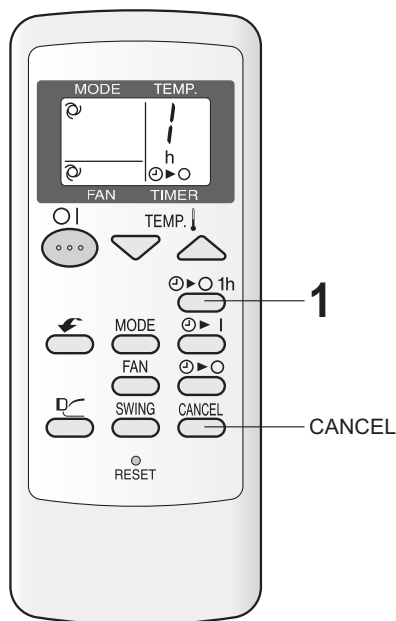
1 **Press the ONE-HOUR OFF TIMER button.**

• The remote control will displays " ".

• The orange TIMER lamp ( ) will light up.

TO CANCEL

Press the CANCEL button.

• The orange TIMER lamp ( ) will turn off.

NOTE:
• The ONE-HOUR OFF TIMER operation has priority over TIMER ON and TIMER OFF operations.
• If the ONE-HOUR OFF TIMER is set while the unit is not operating, the unit will operate for an hour at the formerly set condition.
• If you wish to operate the unit for another hour before the ONE-HOUR OFF TIMER is activated, press the ONE-HOUR OFF TIMER button again during operation.

3 – 9

TIMER OPERATION

TIMER OFF

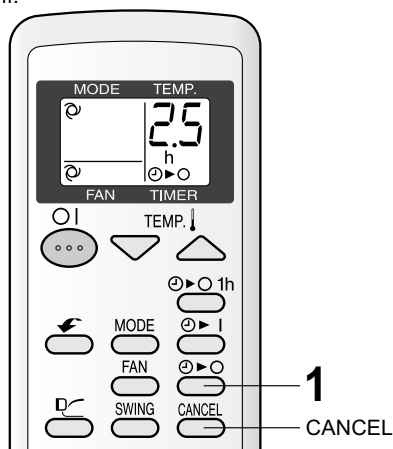**1** **Press the TIMER OFF button and set the time as desired.**

→0.5h →1.0h →1.5h ··→10h →11h →12h

- The orange TIMER lamp (⏰) will light up.
- The time setting will count down to show the remaining time.

TO CANCEL

Press the CANCEL button.
- The orange TIMER lamp (⏰) will turn off.

TIMER ON

1 **Press the TIMER ON button and set the time as desired.**

→0.5h →1.0h →1.5h ··→10h →11h →12h

- The orange TIMER lamp (⏰) will light up.
- The time setting will count down to show the remaining time.
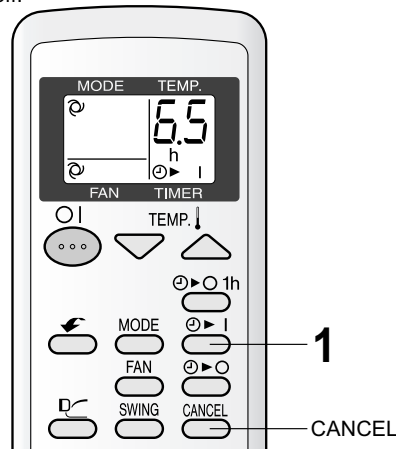
TO CANCEL

Press the CANCEL button.
- The orange TIMER lamp (⏰) will turn off.

NOTE:
- Timer duration can be set from a minimum half an hour to a maximum of 12 hours. Up to 9.5 hours, you can set in half-hour increments, and from 10 to 12 hours, in 1-hour increments.
- The TIMER OFF and TIMER ON can not be set together.
- The ONE-HOUR OFF TIMER operation has priority over TIMER ON and TIMER OFF operations.
- When the temperature is set during timer setting, the temperature will show in the display for 5 seconds and then return to the timer display.
- If a power failure occurs while the TIMER is set, the TIMER setting will be cancelled and will not be retrieved even after the power is restored.

TIMER OFF
- When the TIMER OFF is set, the temperature setting is automatically adjusted to prevent the room from becoming excessively cold while you sleep. (Auto Sleep function) One hour after the time operation begins, the temperature setting rises 1°C higher than the original temperature setting.

TIMER ON
- The unit will turn on prior to the set time to allow the room to reach the desired temperature by the programmed time. (Awaking function)