



Samsung Electronics

RAC Inverter

Training manual

Contents



◆ Features

◆ Installation guide

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◆ Trial operation

◆ Error code

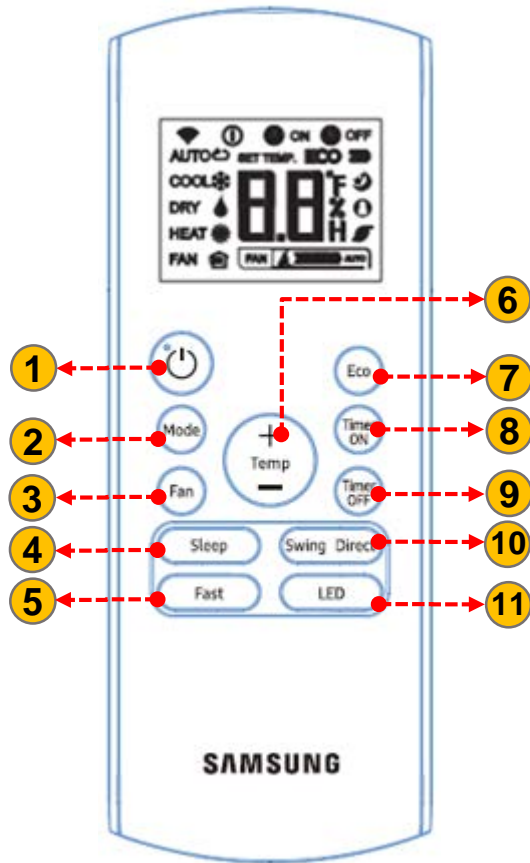
◆ Nomenclature

Feature

- **Wireless remote controller**
- **Eco mode**
- **Sleep mode**
- **Health Care & Durability**
- **Safe and convenience**
- **Others**

Wireless remote controller

■ Display and buttons (Inverter)



No	Name	Description
1	On/Off button	Press this button to turn On/Off the indoor unit
2	Mode button	Press this button to select one of the 5 operation modes. (Auto → Cool → Dry → Heat → Fan → Auto →)
3	Fan button	Press this button to select on of the fan speeds. (Auto → Low → Mid → High → Auto →)
4	Sleep button	Press this button to active/disable Sleep function.
5	Fast button	Press this button to active/disable Fast function.
6	Temperature button	Press this button to increase/decrease the set temperature by 1°C(°F)
7	Eco button	Press this button to select the eco mode ※ P11
8	Timer On button	Press this button to initiate the auto-on time sequence
9	Timer Off button	Press this button to initiate the auto-off time sequence
10	Swing / Direct button	Use to stop or start horizontal louver auto swing feature / Use to change the louver movement and set the desired up/down air flow direction
11	LED button	Disable/Active indoor screen Display



Eco mode

■ Eco operation (Inverter Model)

- Used to enter the [energy efficient mode](#).

If you press 'Eco' button under cooling mode,

1) Set temperature is less than 24°C

- The set temperature : [24°C](#)
- Fan speed : [Auto](#)

2) Set temperature is between 24°C and 30°C

- The set temperature : [No change](#) (Keep)
- Fan speed : [Auto](#)

NOTE

- Press the 'FAST' and 'SLEEP' button, modifying the mode or adjusting the set temperature to less than 24 °C will stop Eco operation.
- Under Eco operation, the set temperature should be 24 °C or more. It may result in insufficient cooling.

If you feel uncomfortable, just press the ECO button again to stop it.

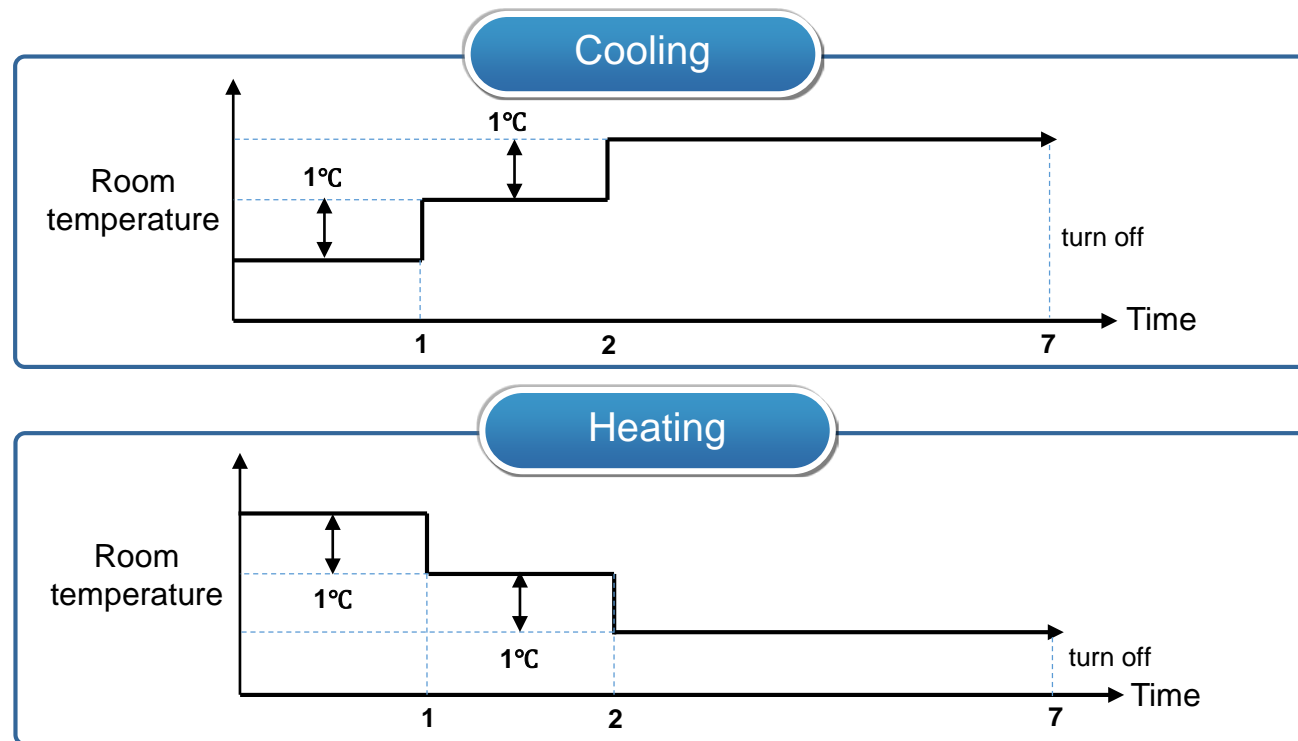
Sleep mode

■ Energy saving and comfort at night

- The function enables the air conditioner to automatically increase or decrease set temperature $1^{\circ}\text{C}/\text{hr}$ for the first 2 hours at cooling or heating, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort at night.



Sleep Mode

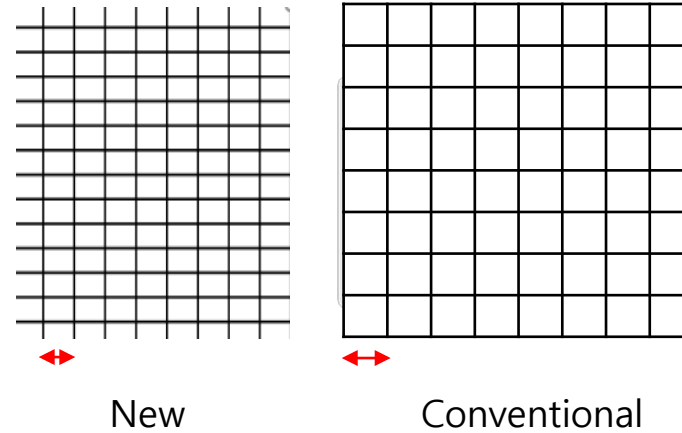


Health Care & Durability

■ Keeps Air Quality Clean & Long-lasting against Anti-corrosion near coastal areas

● High Density Filter

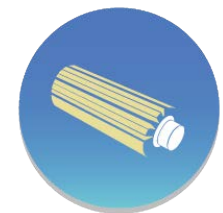
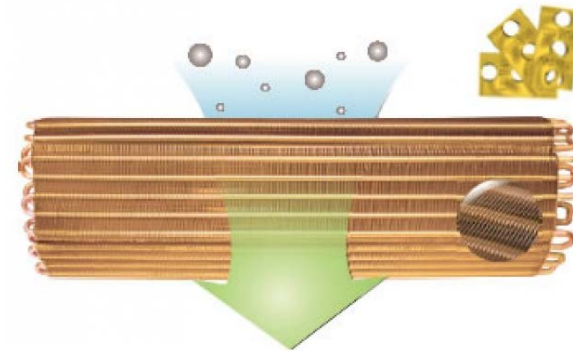
Compared with ordinary dust filter, the anti-dust effect of this high density filter can increase more than 50%, it can clean dust, pollen up to 80%.



High Density Filter

● Golden Fin

The unique anti-corrosive golden coating on the condenser can withstand the salty air rain and other corrosive elements.



Golden Fin

Safe and convenience

■ Reliability & Convenience

● Refrigerant Leakage Detect

The system will stop operation automatically to ensure safety once the refrigerant leakage is detected.

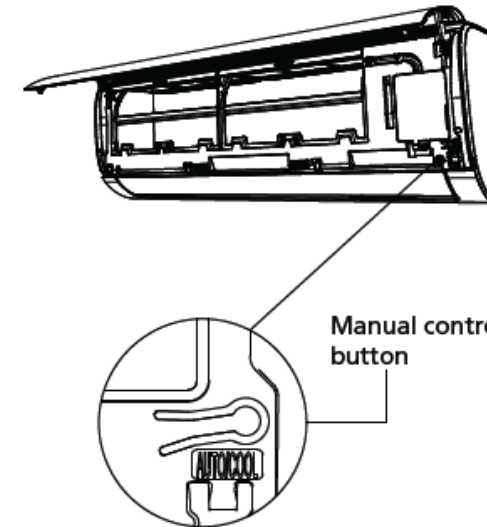
*The indoor unit will automatically display “EC or “EL0C” or flash LEDS (model dependent) when it detects refrigerant leakage.]



Refrigerant
Leakage Detect

● Manual Switch Button

You can easily turn on/off your AC by pressing manual switch button, without using a remote controller or any special tools



Manual ON/OFF

Others

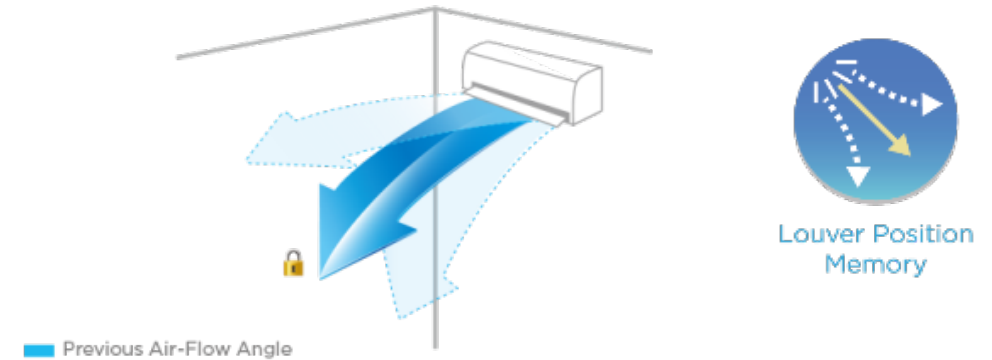
● Fast Cooling

Boost cooling or heating spread in a short period , and makes the room cool down or heat up rapidly.



● Louver Position Memory Function

When you start the unit next time, the angle of horizontal louver will automatically move to the same position as you set last time.



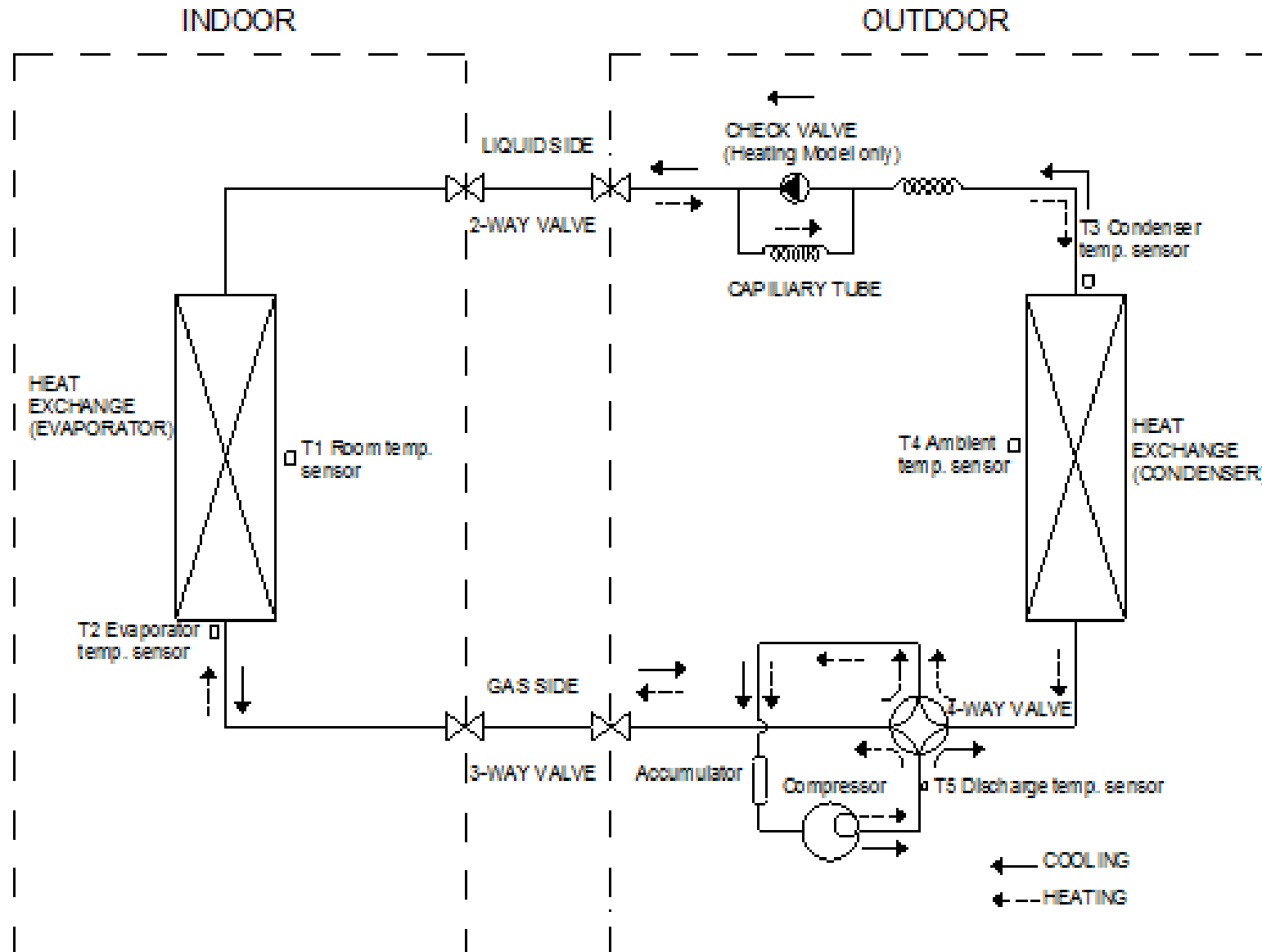
● Auto Swing

Distributes cool/warm air to maximum area by moving horizontal flaps automatically.



Refrigerant circuit

For heat pump models:..



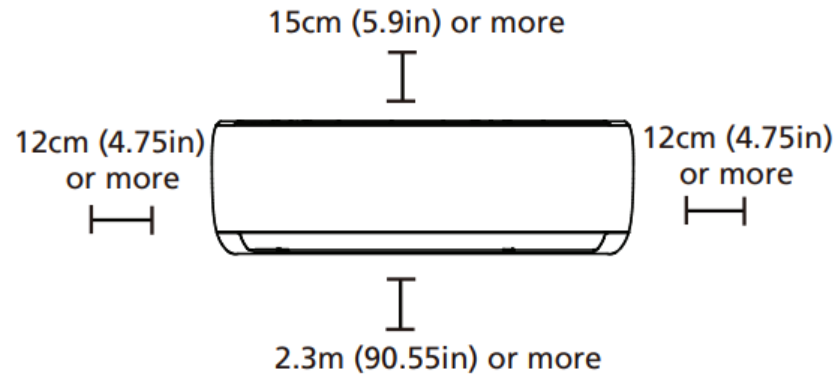
Installation

- Installation space and refrigerant piping
- Option setting

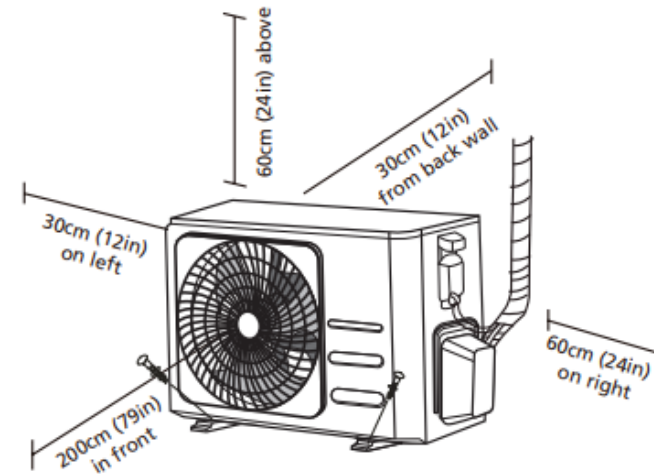
Installation space and refrigerant piping

■ Minimum clearances for the outdoor unit

- Observe the clearances and maximum lengths as seen in the picture below when installing the air conditioner



Install the unit by following local codes and regulations, there may be differ slightly between different regions.



- Maximum length and Drop Height of Refrigerant piping per Unit Model

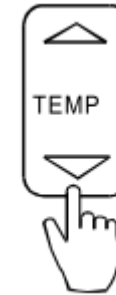
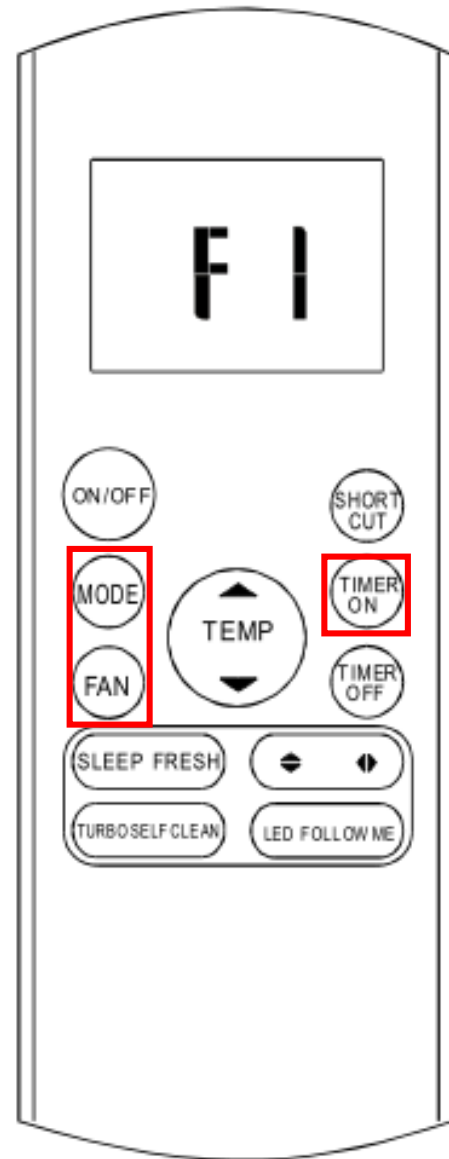
Model	Capacity (Btu/h)	Max. length (m)	Max. Drop Height (m)
R32 Inverter Split Air Conditioner	< 15,000	25	10
	≥ 15,000 and < 24,000	30	20
	≥ 24,000 and < 36,000	50	25

Option setting

■ Wireless remote controller



Press the **Mode / FAN /Time ON** buttons together



Change page






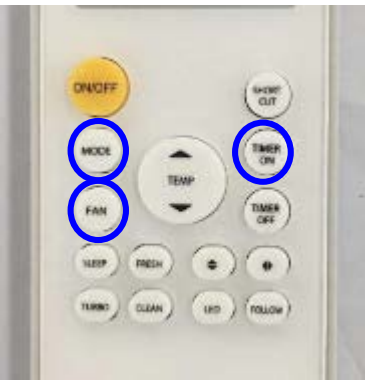




Modify the selected function



Confirm the setting parameter

Option setting

■ Process

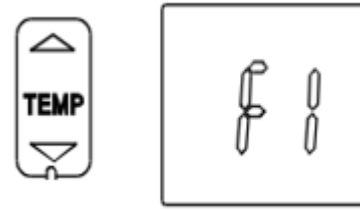
<p>1</p> 	<p>2</p> 	<p>3</p> 	<p>4</p> 
<p>REMOCON</p>	<p>Loose one battery</p>	<p>Loading the battery</p>	<p>Press Mode / Fan /Timer On button at same time</p>
<p>8</p> 	<p>7</p> 	<p>6</p> 	<p>5</p> 
<p>Press Timer On button to confirm the setting</p>	<p>Press Mode ,then press Temp to modify selected function</p>	<p>Press the Temp button, To change page "F1" "F2"..</p>	<p>Display F1</p>

Option setting

■ Process

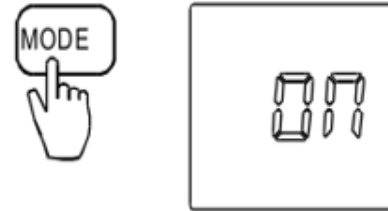
Auto-start function

1. Press “△” & “▽” button to choose “F1”



2. Press Mode button.

Then press “△” & “▽” button to choose “On” or “Off”



3. Press TIMER ON button,
and the Auto-start function on/off setting has finished.

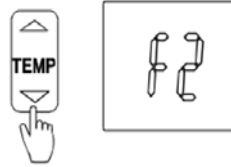


Option setting

■ Process

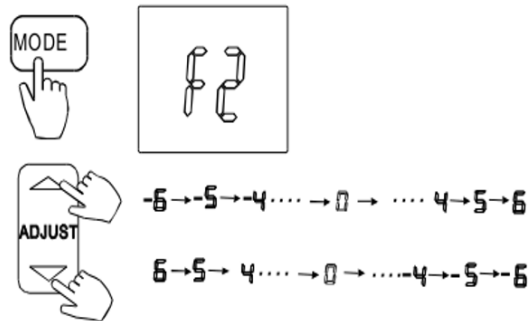
Heating temperature compensation

1. Press “△” & “▽” button to choose “F2”



2. Press Mode button. Then press “△” & “▽” button to choose the temperature.

The parameters can be adjusted within a range of $-6^{\circ}\text{C} \sim 6^{\circ}\text{C}$.



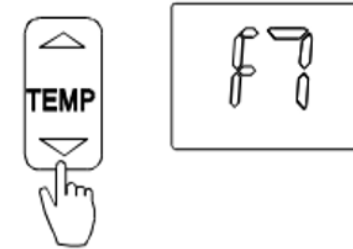
3. Press TIMER ON button.



* Standard temp. compensation for Heating mode : 4°C

Cooling temperature compensation

1. Press “△” & “▽” button to choose “F7”



2. Press Mode button. Then press “△” & “▽” button to choose the parameters in a range of $-2^{\circ}\text{C} \sim 2^{\circ}\text{C}$.

3. Press TIMER ON button to confirm.

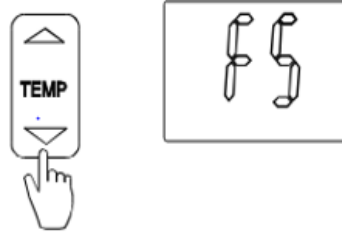
* Standard temp. compensation for Cooling mode : -2°C

Option setting

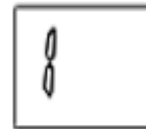
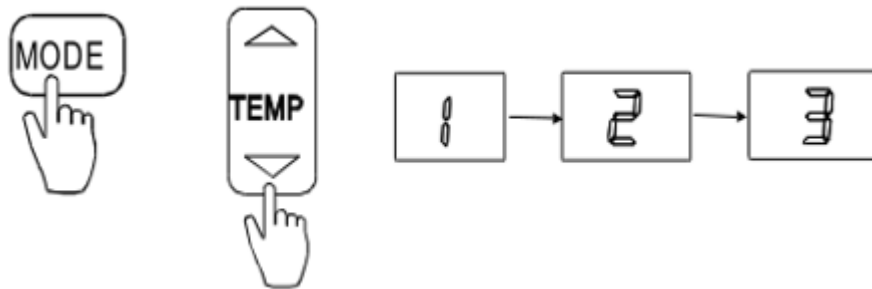
■ Process

Louver angle memory function

1. Press “△” & “▽” button to choose “F5”



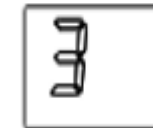
2. Press MODE button. Then press “△” & “▽” button to select “1”, “2” or “3”.



Indicates cancelling memory function.



Indicates the louver angle memory function is enabled under switching off or power failure.



Indicates the louver angle memory function is enabled under switching off, disabled under power failure.

3. Press TIMER ON button to confirm.

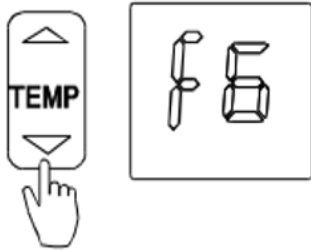


Option setting

■ Process

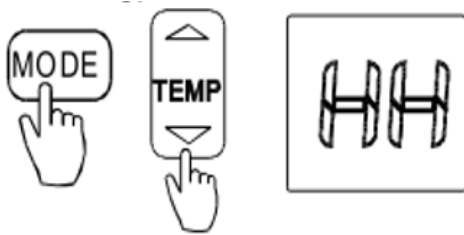
Heating only or Cooling & heating setting

1. Press “△” & “▽” button to choose “F6”



2. Press MODE button. Then press “△” & “▽” button to select “HH” or “CH”

(HH : Heating only, CH : Cooling & Heating).

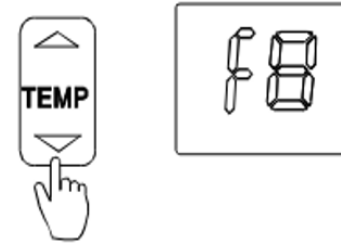


3. Press TIMER ON button to confirm.



Refrigerant leakage detection

1. Press “△” & “▽” button to choose “F8”



2. Press Mode button. Then press “△” & “▽” button to choose “on” or “off”

3. Press TIMER ON button to confirm.

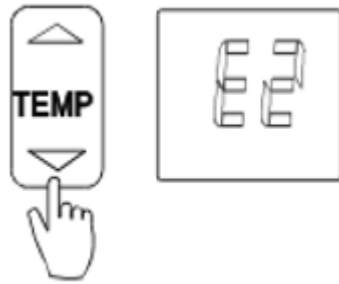


Option setting

■ Process

Lowest temperature setting

1. Press “△” & “▽” button to choose “E2”



2. Press Mode button. Then press “△” & “▽” button to set the temperature in a range of 17°C to 24 °C.

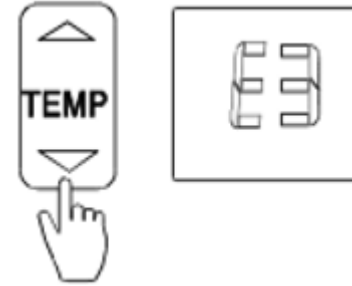
3. Press TIMER ON button to confirm.



* Normal range (Default) : 17 ~ 30°C

High temperature setting

1. Press “△” & “▽” button to choose “E3”



2. Press Mode button. Then press “△” & “▽” button to set the temperature in a range of 25°C to 30 °C.

3. Press TIMER ON button to confirm.



Nomenclature

Nomenclature

Model Name

AR	12	T	X	H	QB	WK	N	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Buyer

(1) Classification		(2) Capacity (2Digit)	
AR	RAC	BTU	x 1000

(3) Year	
M	2017
N	2018
R	2019
T	2020
A	2021
B	2022
C	2023

(4) Feature 1		(5) Feature 2	
S	Inverter HP R410A	E	Wifi + eco Filter
V	Inverter CO R410A	F	Wifi
X	Inverter HP R32	G	Eco Filter
Y	Inverter CO R32	H	No Option
Q	Fixed HP R410A	3	India 3Star
R	Fixed CO R410A	5	India 5Star
H	Fixed HP R32		
G	Fixed CO R32		

(6) Series (Version)	
LA	ODM RAC (T) 1 st Model
LB	ODM RAC (T) 2 nd Model
QA	ODM RAC (M) 1 st Model
QB	ODM RAC (M) 2 nd Model
QC	ODM RAC (M) 3 rd Model
RA	ODM RAC (Au) 1 st Model
BA	ODM RAC (Am) 1 st Model
BB	ODM RAC (Am) 2 nd Model
GA	ODM RAC (G) 1 st Model
GB	ODM RAC (G) 2 nd Model

(7) Color	
WK	White
SI	Silver
UR	Midnight Blue
BR	Rich Brown
BU	Cool Blue
PU	Pastel Blue

(8) SET	
/	SET
N	IN
X	OUT

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THANK YOU