4.2 PC-ARH1E

4.2.1 Safety summary

DANGER

- ***DO NOT handle the remote control with wet hands.***
- ***DO NOT spill water on the remote control. This may cause an electric shock.***
- ***If the safety devices are activated too frequently or the buttons do not work properly, turn off the unit at the mains and contact your HITACHI service provider.***
- ***In the event of an incident of an electrical nature, turn off the system, switch it off at the mains and contact your HITACHI service provider.***

CAUTION

- *DO NOT install the indoor unit, outdoor unit, remote control or any wiring in the following locations:*
- *Where there are oil vapours and the oil is dispersed.*
- *In the proximity of hot water or heat sources or in sulphuric environments.*
- *In locations prone to the generation, accumulation, leakage or flow of flammable gas.*
- *Close to the sea (saline atmospheres).*
- *In acidic or alkaline environments.*
- *Within the reach of children.*
- *Directly in front of the air-conditioning system outlet.*
- *To avoid electromagnetic compatibility problems, DO NOT install the indoor unit, outdoor unit, remote control or any wiring within 3m of strong sources of electromagnetic radiation (e.g. waves generated by medical equipment). If the system should be installed in a location where electromagnetic waves are produced, protect the remote control and wiring by covering them with the steel casing and passing the cable through the metal duct.*
- *If electrical noise should be generated at the indoor unit power source, install a noise filter.*

CAUTION

- *This appliance must be used only by adult and capable people, having received the technical information or instructions to handle this appliance properly and safely.*
- *Children should be supervised to ensure that they do not play with the appliance.*

4.2.2 Installation

4.2.2.1 Installation site selection

Take note of the maximum admissible cable length between units and the control as well as between the units themselves, as shown in the following table:

Cable section	0.3 mm²	≥ 0.75 mm²
Cable length	30 m	500 m

4.2.2.2 Components list

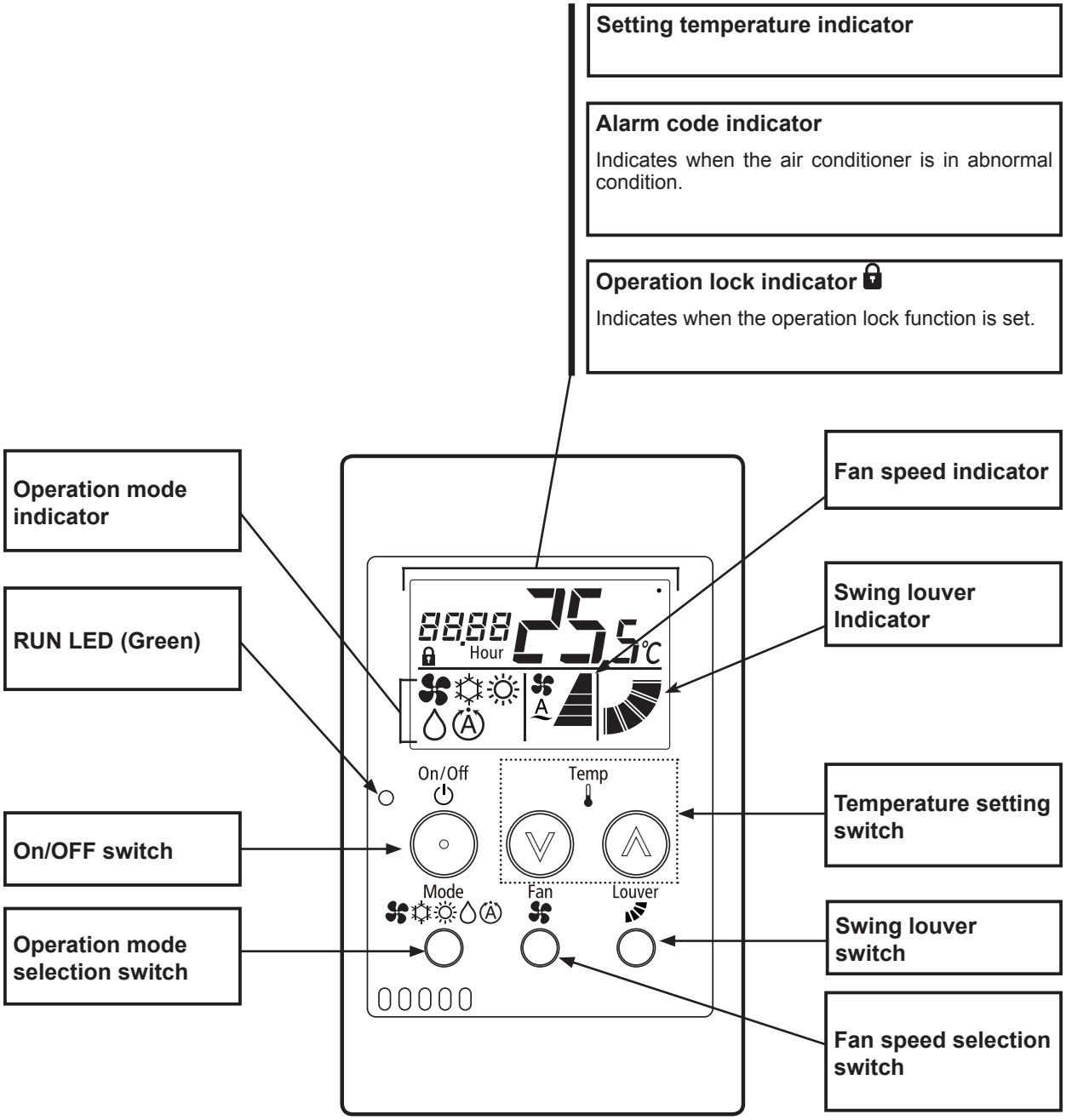
Unpack the unit and check that:

- The package contains all the components (see next table).
- All components are in perfect condition.

Otherwise, contact the manufacturer.

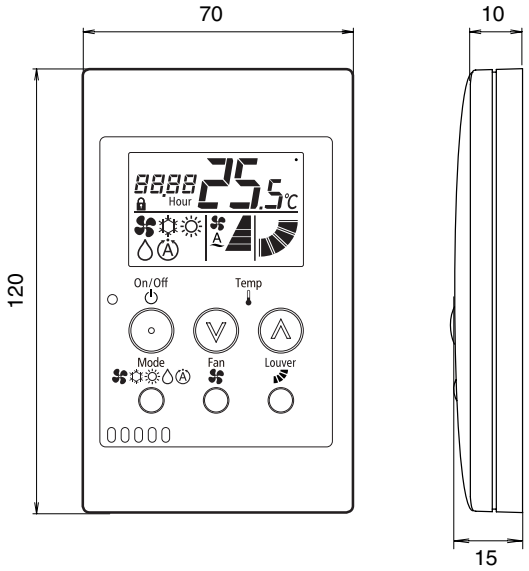
Name		Quantity	Comments
Remote control		1	For controlling system operation
M4x16L screws		2	For fixing the bracket to the wall
Cable tie		1	For attaching the cable to the ring core
Ring core		1	For securing the cables
Cable with connector (20 cm)		1	–
Installation and operation manual		1	Installation and operation unit instructions.

4.2.2.3 Description of the parts



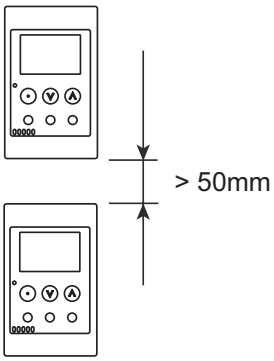
4.2.2.4 Dimension data

(mm)



4.2.2.5 Installation space

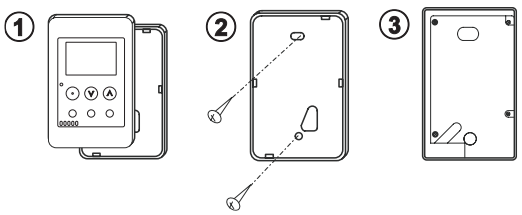
In case of installing the controllers in vertical line, keep a distance more than 50 mm between the controllers vertically. If the distance is insufficient, the controller can not be taken out.



4.2.2.6 Installation procedure

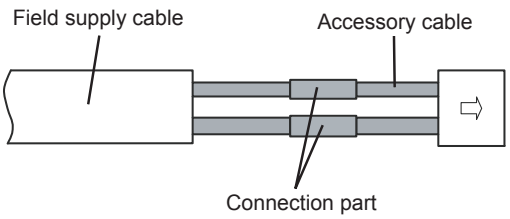
1 Insert the end of the screwdriver into the indents on the bottom of the bracket, push and rotate the screwdriver to remove the remote from the bracket.

Unscrew the base to release the bracket



2 Cable connection.

Connect and solder the accessory cable to the cable supplied with the unit. Insulate the contact area with vinyl tape.

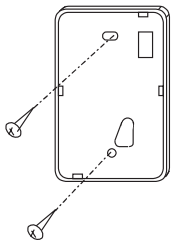


3 Choose one of the following installation options for securing the remote control, depending on the installation requirements:

- With remote control cable exposed.
- Using an electrical box.
- With a bedside table.

◆ In cases where the remote control cable is exposed

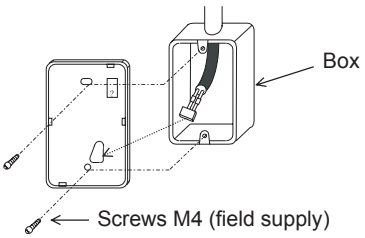
Secure the cable holder accessory to the wall using 2 M4 screws (accessories).



◆ If using an electric control box

There are different types of electrical boxes available on the market that can be used for this installation, for example:

- Electrical box for one control unit (with or without cover.)
- Electrical box for 2 control units (with or without cover.)
- Other types of box



1 Pass the cable through the wall duct.

2 Pass the cable through the electrical box.

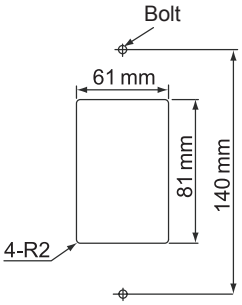
3 To secure the bracket to the box, make sure you leave the necessary length of cable, taking into account the height of the terminals A and B.

◆ If using a bedside table

1 Cut a hole to leave the remote control exposed and prepare the bolts (over 140 mm), as shown in the diagram.

NOTE

The bolts must be positioned in-line with the spacers (field supply).

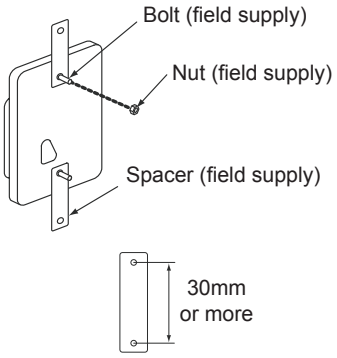


2 Fit the bolts into the fixing bracket and secure the spacers with nuts.

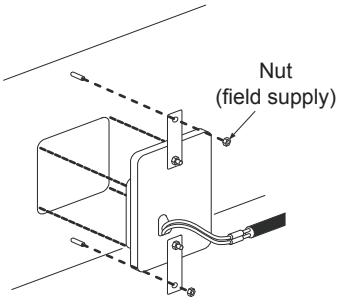
- Bolt (field supply).
- Nut (field supply).
- Spacer (field supply).

NOTE

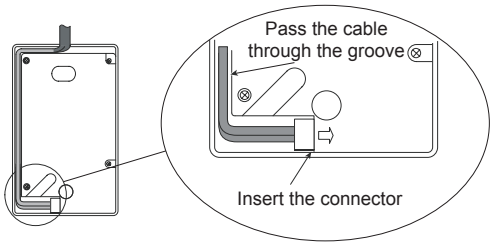
Leave a distance of at least 30 mm between the spacer holes.



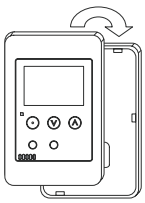
3 Remove the decorative cover and place the remote control in the hole for installation.



4 Secure the remote to the bracket using the screws and connect the cable as shown in the diagram.



5 Secure the remote to the fixing bracket. First connect the top, and then the bottom.



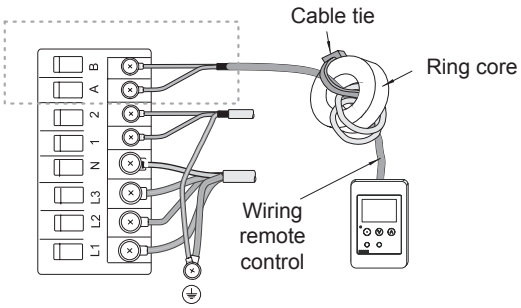
4.2.3 Electrical wiring

4.2.3.1 Standard electrical connection

⚠ CAUTION

For operational and safety purposes, fit the ring core "attachment" when installing the unit.

- Wind the remote control cable around the ring core twice, as shown beside, before connecting it to the indoor unit terminal board.
- If the cable measures 0.75 mm² or more, the outer insulation must be stripped (only on the part to be wound), otherwise you will not be able to wind the cable around the ring core.
- Secure the cable using the cable tie (accessory).



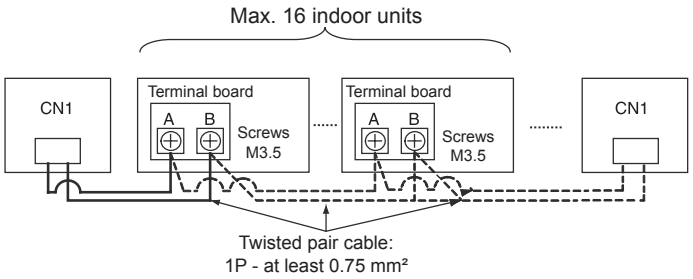
This diagram shows an example of a standard connection, with the cable connected to terminals A and B.

4.2.3.2 Electrical connection for multiple units

◆ **Wiring example (Using a twist pair cable with shield tube)**

This remote control can control up to a maximum of 16 units. If this setting is changed, the wiring connection and other necessary tasks must be carried out, as shown below.

Two remote controls can be connected to the same unit or group of units. The second is a secondary remote control, as shown below. See *"4.2.12 Optional functions"* for more information.



⚠ CAUTION

Always make sure to turn off the power of the indoor unit when performing electrical wiring work. Performing electrical wiring work with the power on can damage the circuit boards of the indoor unit and the remote control switch.

NOTE

- *Use a 0.3 - 0.75mm² cable (maximum total cable length: 30m). If the total cable length exceeds 30m, use a twisted pair cable (1P - 0.75mm²) (maximum total cable length: 200m). If using the remote control timer, the maximum total cable length is 100m. The use of other cables can produce noise, which may lead to a defective system operation.*
- *The remote control cable/indoor unit transmission cables and the power supply cable must be kept at least 30cm apart.*
- *If this distance is less than 30cm, install the cables in a conduit (type-D; ≤ 100 Ω) and connect one end to earth. Failure to do so may cause a fault or may cause the air conditioning unit to work incorrectly due to the noise.*
- *If several indoor units are controlled simultaneously, establish the addresses for the refrigerant cycle and indoor units. This is particularly important when simultaneously controlling indoor units with several refrigerant cycles since abnormal transmission may occur due to duplicate addresses.*
- *Do not leave any space in the remote control box cable hole. Any space must be covered using vinyl tape for example to prevent problems caused by dew or by insects entering the remote control box.*
- *To use two remote controls (primary and secondary), see "4.2.12 Optional functions".*

4.2.4 Checking procedure

PC-ARH1E doesn't have Test Run mode.

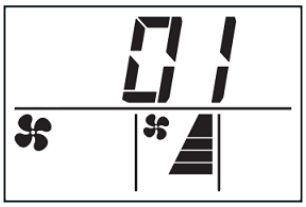
The test running shall be performed from the outdoor units.

1 Turn ON the power for all the indoor units.
2 Models with automatic addressing will take three to five minutes to complete the setting.
3 Set the Test Run mode from the outdoor units.
4 Cancellation the Test Run mode

The Test Run mode can be cancelled when:

- The Test Run will be finished automatically after two hours of running.
- Cancellation the Test Run from the outdoor units.
- Stop the Test Run by pressing the Run/Stop switch of the PC-ARH1E.

The total number of the indoor units connected will be indicated on the temperature display.



NOTE

Display indication when one indoor unit is connected.

Example when one unit is connected.

In case that the indicated number of connected units is incorrect, any transmission abnormality due to, an incorrect wiring/addressing or noise may exist. In such a case, turn OFF the power supply and check the following.

(DO NOT repeat the ON/OFF operation of the main switch within 10 seconds).

1 Indoor units power supply not turn ON, or incorrect wiring.
2 Incorrect wiring connection between indoor units or of remote controllers.
3 Incorrect setting of rotary switch (overlapped setting).

CAUTION

- *PC-ARH1E memorizes Test Run operation mode. The units will start in the Test Run mode if the mode of operation is not changed from the central control equipment which will be used with the unit after the Test Run, or from the remote control switch.*
- *Change the mode of operation using these devices or refer to "4.2.12.1 Optional functions list" (H3 Operation Mode Change Restriction – 02: Not Restricted) after the Test Run.*

4.2.5 Operation Mode (Cooling, Heating, Dry, Cooling/Heating Automatic and Airflow Operation)

4.2.5.1 Function

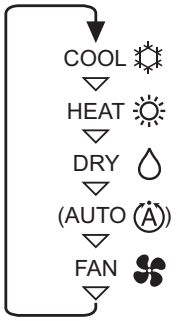
- Cooling Operation (COOL): To decrease the room temperature.
- Heating Operation (HEAT): To increase the room temperature.
- Dry Operation (DRY): To decrease the humidity in the room.
- Cooling/Heating Automatic Operation (AUTO): To cooling and heating automatic changeover.
- Airflow Operation (FAN): To circulate the air in the room.

4.2.5.2 Before operation

⚠ CAUTION

- *Turn ON the power supply for the air conditioner.*
- *To protect the compressor unit, the power supply should be energized 12 hours before the startup operation is begun.*
- *Do not turn OFF the power supply during in-season heating or cooling operation.*
- *Make sure that the outdoor unit is always free of ice and snow. If snow covered, remove it by using hot water (cooler than 50ºC).If the water temperature is higher than 50ºC, it will damage plastic parts.*

By pressing “Mode”, the operation mode will be adjusted as follows.



NOTE

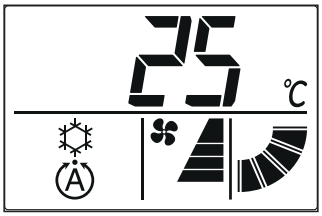
The advanced setting is required for “AUTO” operation mode. Contact your distributor or dealer for detailed information.

4.2.6 Automatic Cooling/Heating operation

By default, temperature when the cooling/heating mode changes are as follows.

Cooling mode changes to heating mode when the indoor temperature is heating setpoint -1°C.

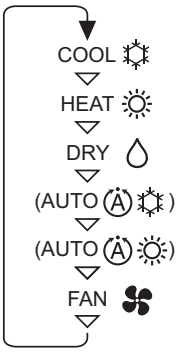
Heating mode changes to cooling mode when the indoor temperature is cooling setpoint +1°C.



NOTE

- *In case of AUTO COOL indication.*
- *In case dual setpoint is selected in automatic cooling/heating operation, during auto mode both cooling setpoint and heating setpoint can be selected.*

By pressing “Mode”, the operation mode will be adjusted as follows.



NOTE

- *For Auto COOL/HEAT, though the temperature indication on display changes by pressing “Mode”, the actual operation mode remains as “AUTO” and it does not change between AUTO COOL and AUTO HEAT.*
- *Advanced configuration is needed for the use of automatic cooling/heating operation and changing AUTO HEAT/COOL temperature.*
- *Contact your distributor or dealer for detailed information.*

4.2.7 Setting method

4.2.7.1 Temperature setting

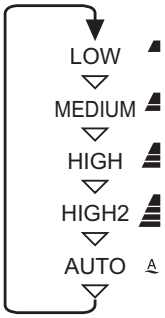
- By pressing “Temp ∧”, the temperature is increased by 0.5°C (Max. 30°C).
- By pressing “∨ Temp”, the temperature is decreased by 0.5°C.
- Cooling, Dry, Airflow operation: Min. 19°C
- Heating operation: Min. 17°C

NOTE

Minimum and maximum temperature levels can be adjusted by setting the lower limit (set temperature for cooling) and the upper limit (set temperature for heating) from the function selection.

4.2.7.2 Fan speed

By pressing “Fan”, the fan speed will be adjusted as follows.

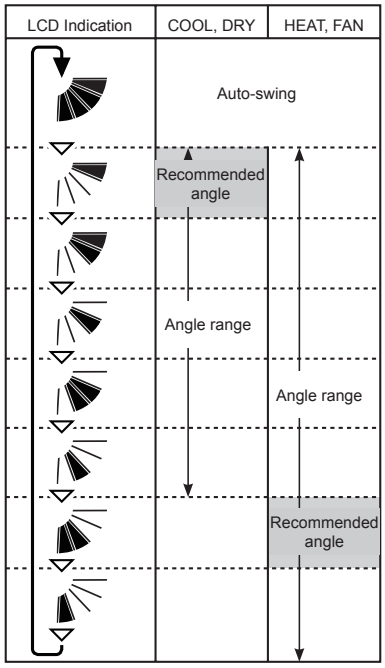


NOTE

- *During the dry operation, the fan speed is automatically adjusted to “LOW” and cannot be changed to another fan speed. (“LOW ” will NOT be displayed on the LCD (liquid crystal display) at this time. The present setting condition will be displayed on the LCD.)*
- *The fan speed settings “HIGH2” and (or) “AUTO” might not be available depending on the type of indoor unit.*

4.2.7.3 Swing louver direction

By pressing “Louver”, the louver direction will be adjusted as follows.



: The Auto-swing operation will start. At this time, the louver graphic will swing repeatedly on the LCD display.

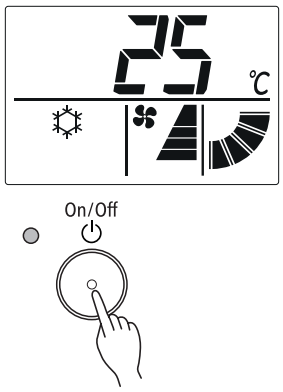
NOTE

- *The airflow angle is different for each indoor unit type. Check for detailed information in “Swing Louver Direction” of each operation manual for indoor unit.*
- *Louver action as depicted on the LCD display might not mimic the actual movement of the louver during the auto-swing operation. To adjust louver position, first set the angle new angle on the LCD display.*
- *Louver action might not stop immediately after the switch is pressed.*

4.2.8 Operation Start

Press “On/OFF”.

The run indicator will be turned ON and the operation will initiate.



NOTE

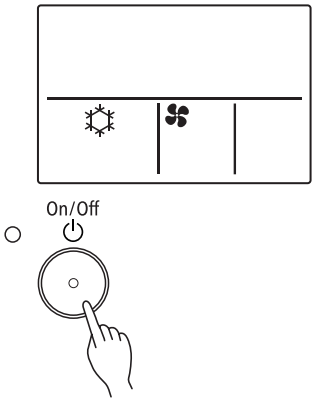
Temperature/Airflow Setting:

- *The setting condition will be entered into memory once the setting is confirmed, therefore a daily setting is not required. In cases where a change of setting is required, refer to items “4.2.5 Operation Mode (Cooling, Heating, Dry, Cooling/Heating Automatic and Airflow Operation)” and “4.2.7.1 Temperature setting”*

4.2.9 Operation Stop

Press “On/OFF” again.

The run indicator will shut OFF and the operation will be halted.



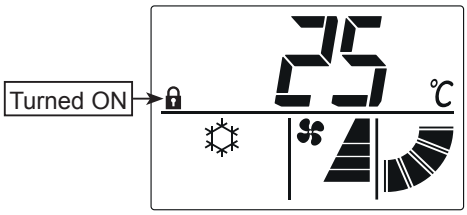
4.2.10 Other Indicators

4.2.10.1 In Normal Conditions

◆ Remote control operation prohibited

When “ ” is turned on, means that the operation with remote controller is not possible.

This is applied for the optional functions: F8, F9, FA, Fb



◆ Thermo-controller

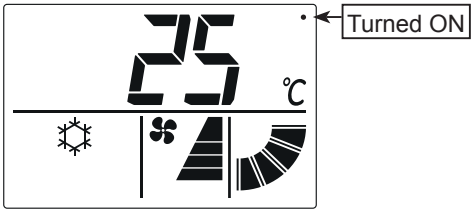
The fan speed is changed to “LOW” at the thermo-controller switch. However, the graphic indication remains unchanged. (Only in the heating operation mode.)

◆ Defrost

Defrost operation

The “ • ” is turned ON during the defrosting.

The indoor fan is stopped although the graphic indication is unchanged.
The louver is fixed at the horizontal position.
The graphic louver symbol on the LCD remains animated.



Operation stoppage during defrosting operation

The RUN LED (Green) goes out when the operation is stopped during defrosting.

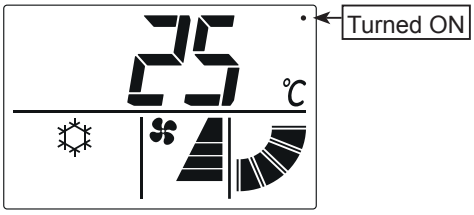
However, the operation continues with the “ • ” displayed, and the unit stops after the defrost operation is finished.

◆ Operation control

Supplying electrical power

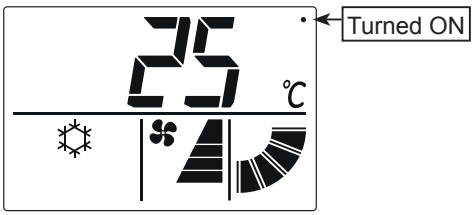
The " • " is activated when electrical power is turned ON.

In this case, the compressor is now in the preheat stage. Operation might be delayed by a maximum of four hours. Do not cut power to the outdoor unit during seasonal heating and cooling operation.



During Hot Start (heating operation only)

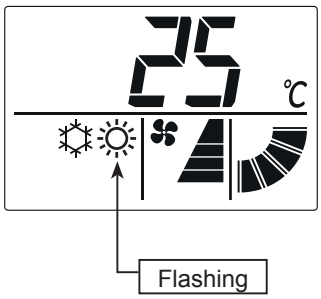
The " • " is turned ON.



Different operation mode

The operation mode set by the controller is different from the outdoor unit operation mode. (Except for the heat recovery system models.)

The operation mode indicator will flash.



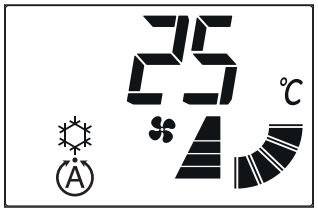
This indicator will flash when a command to COOL has been set by way of the controller during a HEATING operation.

Setback Operation

Setback function can be activated for PC-ARH1E but only with the “External input” control. When the room is not occupied (no key card inserted), the comfort in the room is checked by the indoor unit that permanently runs in low fan speed and a modified set point. When the room is occupied again (key card is inserted), the original setting temperature is restored. The current operation mode of the indoor unit is maintained when Setback operation is started.

The parameter is the temperature differential value to adjust the setting temperature during Setback operation.

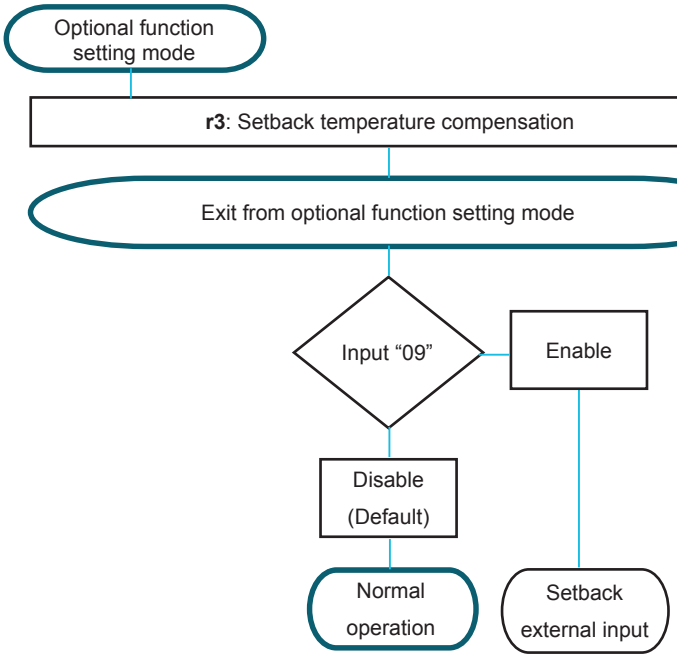
By default,
Cooling: Setpoint +2.5°C
Heating: Setpoint -2.5°C



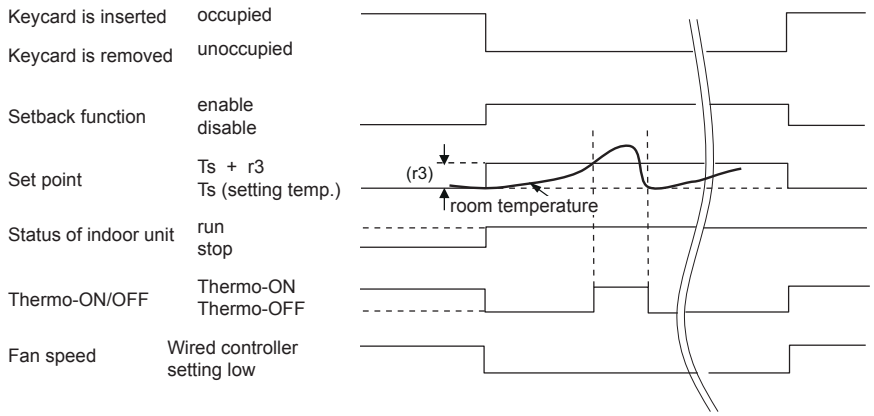
NOTE

Advanced configuration is needed for the use of setback operation and changing compensation for setback. Contact your distributor or dealer for detailed information.

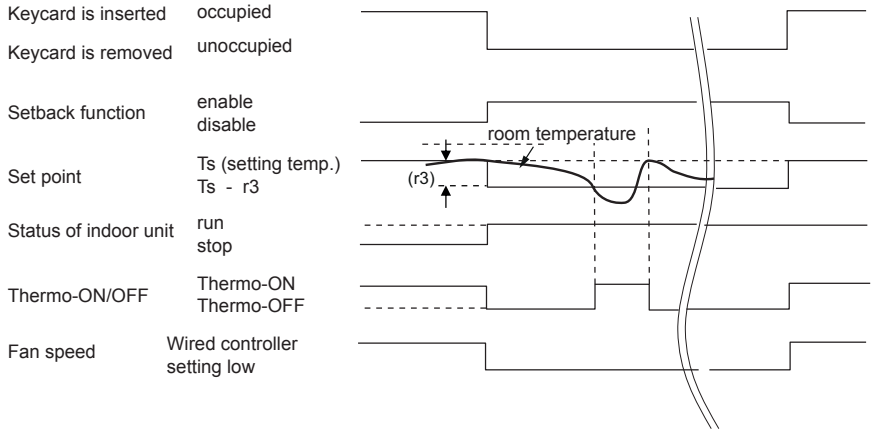
Setback flow chart



Control Operation Time Chart (Cooling/Dry Mode)



Control Operation Time Chart (Heating)

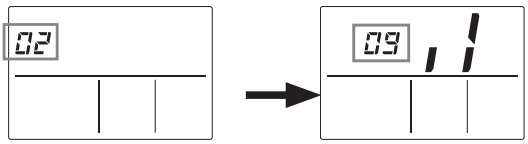


Setting of setback optional functions

Parameter	Description	Setting options
r3	Setback temperature compensation	r3= 0.5 : 0.5ºC r3=1.0 : 1.0ºC r3=1.5 : 1.5ºC r3=2.0 : 2.0ºC r3=2.5 : 2.5ºC r3=3.0 : 3.0ºC r3=3.5 : 3.5ºC r3=4.0 : 4.0ºC r3=4.5 : 4.5ºC r3=5.0 : 5.0ºC r3=5.5 : 5.5ºC

Input setting from the remote control

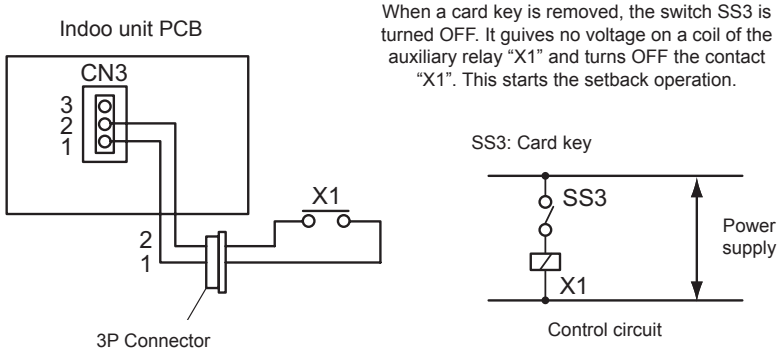
Select 02 in the menu for choosing between function selection and input/output to set the input/output. Select either “Input 1” or “Input 2” and change the setting to “09”.



Build the input circuit

Build a circuit as shown below.

On the indoor unit PCB, use the input terminal (CN3) to receive external signals.



Wiring diagram example of setback operation by external input (example: card key input is set to terminals 1 and 2 of CN3)

A wired controller is required for this function.

Automatic cooling/heating with dual setting

This function is available in standard air-to-air indoor units and is used to switch between heating and cooling operations automatically depending on a cooling set point and a heating set point (dual set point).

In the case of 2-pipe systems, the same operation mode will be applied to all the indoor units of the concerned refrigerant cycle.

In the case of 3-pipe systems, the same operation mode will be applied to all the units connected to the same single CH-Box, or to all the units connected to the same Multi CH-Box outlet.

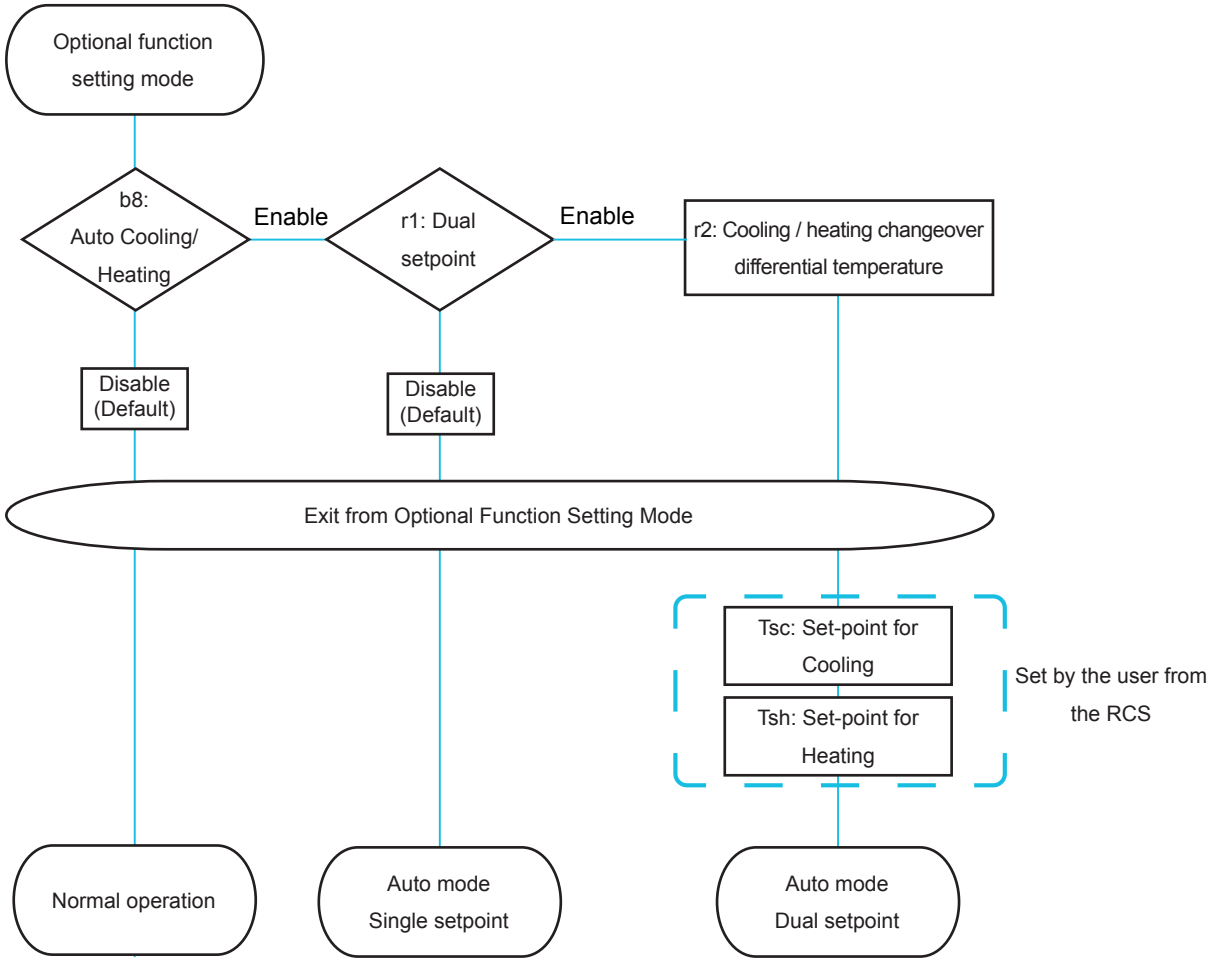
It is recommended to use this function with heat recovery systems (3-pipe systems).

This function can be activated by the optional parameters (b8, r1...) available in the optional function menu of the controller.

NOTE

- *Systems without CH-Box (2-pipe system) are not designed to operate in the simultaneous Cool/Heat mode when more than one indoor unit is connected to the same outdoor unit, but only in the cool or heat mode. Thus all indoor units connected to the same outdoor unit should be changed from one mode to another at the same time. The same is applicable to the system with CH-Box (3-pipe system) for all indoor units connected to the same CH-Box.*
- *This function is not available for HYDRO FREE, KPI and DX-Interface.*

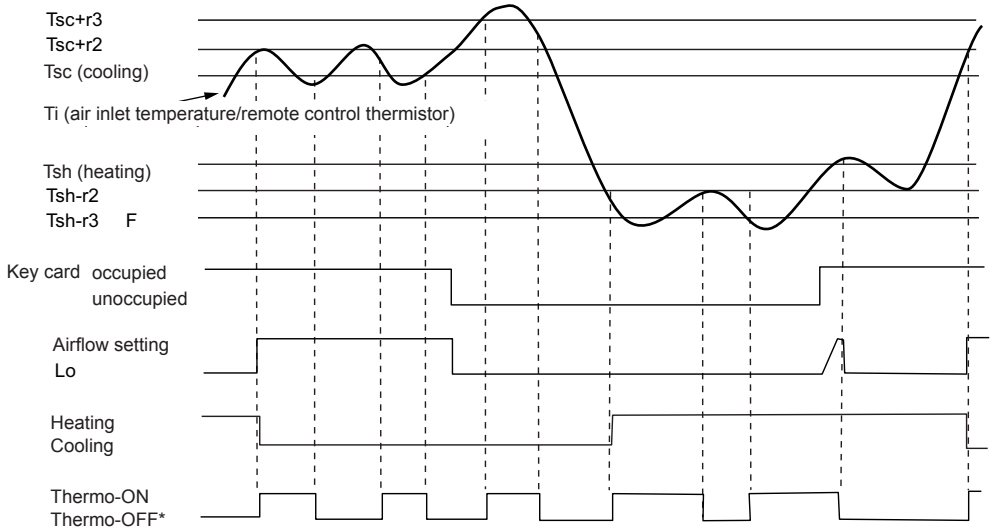
Flow chart of automatic cooling/heating with dual setting



Operation of dual setting during simultaneous cooling and heating with the setback control activated

In case both setback temperature and automatic cooling/heating with dual setting are performed, the operation is shown below.

For dual setpoint, the heating set point must be lower than the cooling set point.



* The Thermo-OFF conditions are the same as the current cooling/heating automatic control.

Optional function setting of automatic cooling/heating with dual setting

Parameter	Description	Setting option
b8	Automatic cooling/heating operation This function allows the automatic switching of cooling and heating modes of the units in the same refrigerant cycle.	b8=00 : Function not activated b8=01 : Function activated
r1	Dual setpoint Function in the automatic cooling/heating mode allowing the preset of respective setpoint for cooling and heating.	r1=00 : Function not activated r1=01 : Function activated
r2	Setting of temperature differential for switching cooling and heating. This setting is possible when r1=01.	r2=0.5 : 0.5ºC r2=1.0 : 1.0ºC r2=1.5 : 1.5ºC r2=2.0 : 2.0ºC r2=2.5 : 2.5ºC r2=3.0 : 3.0ºC

4.2.11 In Abnormal Conditions

4.2.11.1 Abnormality

- The RUN LED (Red) is flashing.
- The indoor unit number, alarm code, model code, and the connected number of indoor units are displayed on LCD.
- In cases where a number of indoor units are connected, the above items for each indoor unit are displayed one by one.

4.2.11.2 Power Failure

- All indicators are off.
- Once a unit is shut down by a power failure, it cannot be restarted after the power recovers. Repeat starting procedures again.
- In instances where the power failure and recovery are instantaneous, the unit will restart automatically.

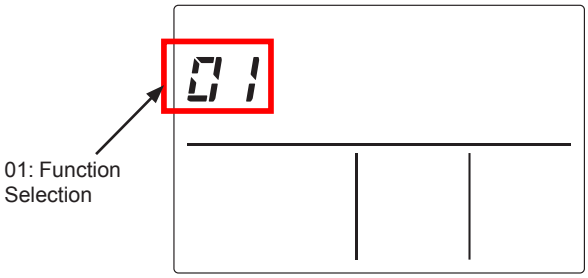
4.2.11.3 Electronic interference

For instance, if a unit is in a shutdown state and all indicators are OFF, this condition could have been induced by the reaction of the unit's micro-computer fail-safe protections against electronic interference (EMI). If this is the case, perform restart procedures.

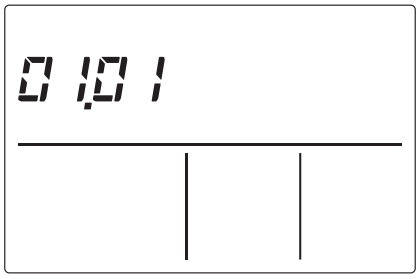
4.2.12 Optional functions

1 Press and hold "▽" for "Temp" and "Fan" simultaneously for at least three seconds during the normal mode (when unit is not operated).

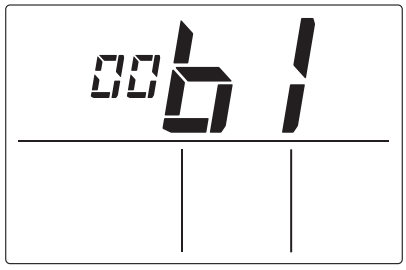
2 Select the optional mode by pressing "▽" or "△" for "Temp" and press "Fan".



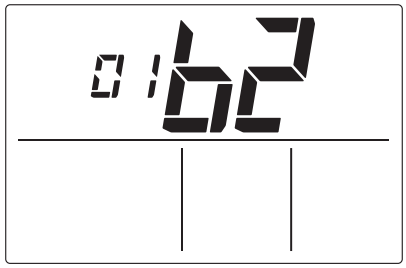
3 Select the indoor unit by pressing "▽" or "△" for "Temp" and press "Fan".
(This screen is NOT displayed when there is only one indoor unit connected with the controller. In this case, (4) will be displayed.)



4 Press "▽" or "△" for "Temp" and select the item.



5 Press "Fan" and change the setting.



6 Press "▽" and "△" for "Temp" simultaneously to return to the normal mode.

4.2.12.1 Optional functions list

Item	Optional function	Individual setting	Settings	Setting conditions	Description
b1	Heating temperature compensation Models: RCI-FSN4 RCIM-FSN4E RCD-FSN3 RPC-FSN3 RPI-FSN5E RPI-FSN3E(P)E(-f) RPIM-FSN4E(-DU) RPK-FSN(H)3M	○	00	Normal (factory setting) (Setting Temperature + 4ºC)	This function is used to adjust the temperature difference between the temperature read by the inlet sensor and the real room temperature. This is useful when the inlet air thermistor is not placed inside the indoor unit or due to uneven heat load. Note: • *The "02", "03", "04" settings may not be available depending on the type of indoor unit.* • *This setting shall be performed separately for each indoor unit, even in case that multiple indoor units are connected to one remote controller.*
			01	No compensation (Setting Temperature)	
			02	Setting Temperature + 2ºC	
			03	Setting Temperature + 3ºC	
			04	Setting Temperature + 1ºC	
	Heating temperature compensation Models: RPF(I)-FSN2E	○	00	RPF(I)-FSN2E: Normal (factory setting) (Setting Temperature + 2ºC)	
			01	No compensation (Setting Temperature)	
			02	Setting Temperature + 2ºC	
b2	Circulation function at heating Thermo- OFF	○	00	Function disabled (factory setting)	This function keeps the fan running during the Thermo-OFF sequence, at the fan speed set on the remote control switch, to prevent the stratification of air in the room.
			01	Function enabled	
b3	Not Used	-	00	-	Use as 00 conditions
			01		
b4	Change of filter cleaning period	○	00	Standard (1200 hours)	This function is used to modify the period of operation after which the air filter cleaning indication is shown in the remote control. For RPK-FSN(H)3M models, the factory setting is b4=00: Standard setting 200 hours.
			01	100 hours	
			02	1200 hours (factory setting)	
			03	2500 hours	
			04	No indication	
b5	Locking of operation mode (Not available for models KPI-E4)	×	00	Function disabled (factory setting)	This function prevents the modification of the operation mode of the unit from the remote controller and from central controls, once it has been selected.
			01	Function enabled	
b6	Locking of temperature setting	×	00	Function disabled (factory setting)	This function prevents the modification of the setting temperature of the unit from the remote controller and from central controls, once it has been selected.
			01	Function enabled	
b7	Setting operation mode as cooling only (Not available for models KPI-E4)	×	00	Function disabled (factory setting)	This function is used to limit the operation mode to cooling only and to prevent heating mode from being enabled.
			01	Function enabled	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
b8	Automatic COOL/ HEAT operation (Not available for models KPI-E4)	×	00	Function disabled (factory setting)	This function enables the selection of Auto cool/heat operation mode. If the function is not activated, Auto cool/heat mode cannot be selected on the remote control switch.
			01	Function enabled	
b9	Locking of fan speed setting. (Not available for models KPI-E4)	×	00	Function disabled (factory setting)	This function prevents the modification of the fan speed of the unit from the remote controller and from central controls, once it has been selected.
			01	Function enabled	
bA	Not available	-	"- -" permanent	Not available	–
bb	Cooling setting temperature correction	×	00	No compensation (factory setting)	This function decreases the setting temperature and is used to produce longer cooling periods.
			01	Setting temperature decreased by 1ºC	
			02	Setting temperature decreased by 2ºC	
bC	Not used	-	00	-	Use at 00 conditions
			01		
bd	Not used	-	00	-	Use at 00 conditions
			01		
bE	Not used	-	00	-	Use at 00 conditions
			01		
C1	Not used	-	00	-	Use at 00 conditions
			01		
C2	Not available	-	"- -" permanent	-	–
C3	Not used	-	00	-	Use at 00 conditions
			01		
	Only for DX- Interface, KPI- E4E and KPI- X4E: Fan stoppage delay		00	Function disabled (factory setting)	This function keeps the fan in operation for 60 minutes after stop of the KPI unit or DX-Interface.
			01	60 minutes	
C4	Not used	-	00	-	Use at 00 conditions
			01		
C5	Static pressure selection Models RPI-FSN5E RPIM-FSN4E(-DU) RPI-FSN3(P)E(-f)	○	00	Standard static pressure (factory setting)	This function is used to change the static pressure of the RPI units from the remote control.
			01	High static pressure	
			02	Low static pressure	
	Increase of fan speed during normal operation (not during heating Thermo-OFF) Models RCI-FSN4 RCIM-FSN4E RCD-FSN3 RPC-FSN3 RPK-FSN(H)3M RPF(I)-FSN2E	○	00	Standard (factory setting)	This function is used to change the fan speed of indoor units installed in high ceilings.
			01	Hi Speed 1	
			02	Hi Speed 2	

	Fan speed setting on the remote controller			
C5	High H	High	Medium	Low
0	Hi2	Hi	Me	Lo
1	Hi2	Hi1	Hi	Me
2	Hi2	Hi2	Hi1	Hi

(This function C5 is not available for DX-Interface models)

Item	Optional function	Individual setting	Settings	Setting conditions	Description
C6	Increase of fan speed at heating Thermo- OFF (Not available for models KPI-E4 and KPI-X4E)	○	00	Function disabled (factory setting)	This function is used to increase the fan speed when the thermostat reaches the set temperature in heating according to the setting of function C5.
			01	Function enabled	
C7	Cancellation of forced compressor operation for at least 3 minutes	○	00	Function disabled (factory setting)	This function is available depending on the setting of function b3.
			01	Function enabled (Compressor operation during 3 minutes is no longer forced)	
	Only for KPI-E4E and KPI-X4E CO_2 sensor enabled		00	Sensor non enabled (factory setting)	Via 7-segments display set the option CE (00: ON/OFF Sensor (Default); 01: 4-20mA 02: 0-10V)
			01	Sensor enabled/activated	
C8	Control by the temperature sensor of the remote control switch **NOTE** *The remote control switch shall be installed in a proper place for the correct detection of room temperature by its temperature sensor.*	○	00	Control by the air inlet sensor of indoor units (factory setting)	This function specifies the temperature sensor to be used as control sensor by the indoor unit.
			01	Control by the temperature sensor of the remote control switch	
			02	Control by the average value of the air inlet sensor of indoor units and the temperature sensor of the remote control switch. (Air inlet + Remote control switch)/2	
	Control sensor when a remote sensor is connected to the THM4 connector in the indoor unit PCB **NOTE** *The remote sensor shall be installed in a proper place for the correct detection of room temperature.* Model RPF(I)-FSN2E	○	00, 01, 02	When a remote sensor is connected to THM4, this remote sensor is used as control sensor, whichever the setting for C8 (factory setting C8=00)	
	Control sensor when a remote sensor is connected to the THM4 connector in the indoor unit PCB **NOTE** *The remote sensor shall be installed in a proper place for the correct detection of room temperature.* Models RCI-FSN4 RCIM-FSN4E RCD-FSN3 RPC-FSN3 RPI-FSN5E RPI-FSN3E(P)E(-f) RPIM-FSN4E(-DU) RPK-FSN(H)3M	○	00, 02	Air temperature control using the average value of the air inlet thermistor and the remote sensor (factory setting C8=00) (Air inlet + Remote sensor)/2	
			01	Air temperature control using the remote sensor	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
C9	Not available	-	"- -" permanent	–	–
CA	Not available	-	"- -" permanent	–	–
Cb	Selection of forced stoppage logic	○	00	Forced stoppage input: A contact, normally open contact (factory setting)	This function determines the logic operation for the forced stoppage contacts.
			01	Forced stoppage input: B contact, normally closed contact	
CC	Not used	–	00	-	Use at 00 conditions
			01		
	Only for DX-Interface, KPI-E4E and KPI-X4E: High ventilation speed		00	Function disabled (factory setting)	This function set the unit runs in high fan speed regardless the setting from remote control switch.
			01	Function enabled	
Cd	Stop of indoor unit fan during cooling Thermo-OFF conditions **NOTE** *For model RPI-FSN3E(P)E and RCD-FSN3, this function is NOT available.*	-	00	Fan speed during cooling Thermo- OFF: Low (factory setting)	The operation of the indoor unit fan is stopped in cooling Thermo- OFF conditions when using the additional remote temperature sensor THM-R2AE (connected to THM4) or the PC- ARFP1E temperature sensor. CB must be set to 01 to use the CB=01 setting.
			01	Indoor unit fan is stopped during cooling Thermo-OFF	
CE	Stop of indoor unit fan during heating Thermo-OFF conditions. Stop of indoor unit fan during heating Thermo-OFF conditions (with remote control switch temperature sensor)	-	00	Fan speed setting during heating Thermo-OFF: Low (factory setting)	The indoor unit uses the PC-ARFP1E temperature sensor to monitor the room temperature when the fan is stopped (heating Thermo-OFF fan stop sequence) CB must be set to 01 to use the CE=01 setting. Control by remote temperature sensor connected to THM4 is not permitted (use EB function in that case).
			01	Indoor unit fan is stopped during heating Thermo-OFF. *(In case that automatic louver is set, the louvers will keep operating in both Thermo-ON and Thermo-OFF conditions)*	
CF	Modification of louver swing angle Models: RCI-FSN4 RCIM-FSN4E RCD-FSN3 RPC-FSN3	○	00	Standard (7 steps) (factory setting)	This function adjusts the angle of the air outlet louver. *(Changes to the setting of this function are applied after turning the power supply off and on again, or after the automatic louver has made a full cycle in automatic mode)*
			01	Cold draft prevention (5 steps) *(Cannot be set to the lower two steps; lower 2 steps cut off)*	
			02	High ceilings (5 steps) *(Cannot be set the upper two steps; upper 2 steps cut off)*	
	Models: RPK-FSN(H)3M	○	00	Standard (7 steps) (5 steps for cooling / dry mode)	
			01	Cold draft prevention (5 steps for heating and fan only) *(Cannot be set to the lower two steps, lower 2 steps cut off)*	
			02	Not used	
d1	Management of indoor unit operation after a power supply cut off - option 1	○	00	Function disabled (factory setting)	When power supply is restored, the indoor units controlled by the wired remote control switch are turned on regardless of their ON/ OFF status at the time of the last power cut off.
			01	Function enabled	
d2	Not available	-	"- -" permanent	–	–

Item	Optional function	Individual setting	Settings	Setting conditions	Description
d3	Management of indoor unit operation after a power supply cut off - option 2	○	00	Function disabled (factory setting)	When power supply is restored, the indoor units controlled by the wired remote control switch are turned on automatically ONLY if they were already ON at the time of the last power cut off. If indoor units were OFF when power was turned OFF, they remain in OFF status when power is restored.
			01	Function enabled	
d4	Not used	-	00	-	Use at 00 conditions
			01		
d5	Prevention of low air outlet temperature in heating mode	○	00	Function disabled (factory setting)	This function prevents the occurrence of an excessively cold air flow in heating mode by decreasing the fan speed during heating operation, also taking into account the setting of function C5.
			01	Function enabled	
d6	Not Used	-	00	-	Use as 00 conditions
			01		
d7	Not available	-	"- -" permanent	–	–
E1	Not Used	-	00	-	Use as 00 conditions
			01/02		
	KPI: Ventilation mode	O	00	Automatic ventilation (factory setting)	This function allows the outdoor air damper to be opened in All Fresh operation mode. This mode allows the full opening of the outdoor air damper (according to the control system).
			01	Ventilation with total heat exchanger	
			02	Ventilation with bypass (no total heat exchange)	
	DX-Interface: "A" Offset for Thermo- OFF in control by outlet for DX-Interface		00	Disabled (factory setting)	
			01	2ºC	
			02	4ºC	
	Econofresh: cooling mode		00	Standard process (factory setting)	This function allows the outdoor air damper to be opened in All Fresh operation mode. This mode allows to fully open the outdoor air damper (according to the control system).
			01/02	All Fresh	
E2	Not Used	-	00	-	Use as 00 conditions
			01		
	KPI: Increase of air supply volume	O	00	Disabled function (factory setting)	This function is used to make the room pressure higher or lower than the surrounded room. One of the fans increases its speed while the other runs according the remote controller Hi/Me/Lo changes to Hi/Hi/Me
			01	Enabled function	
	Econofresh enthalpy sensor		00	Disabled function (factory setting)	This function selects the enthalpy sensor input for Econofresh.
			01	Enabled function	
E3	Not used	-	00	-	Use at 00 conditions
			01		
	Only for KPI-E4E and KPI-X4E: Selection of the fan for function E2	–	00	Activated for supply fan	This function es selects which fan will increase the speed (when E2 enables this function).
			01	Activated for exhaust fan	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
E4	Not Used	-	00	-	Use as 00 conditions
			01/02		
	KPI: Pre-cooling / pre-heating period	O	00	Disabled (factory setting)	This function delays unit startup with energy recovery
			01	30 minutes	
			02	60 minutes	
	Econofresh: CO_2 sensor		00	Disabled (factory setting)	This function selects the CO_2 gas sensor input for Econofresh.
			01/02	CO_2 sensor (required setting E1=00)	
E5	Not used	-	00	-	Use at 00 conditions
			01		
	Only for DX-Interface, KPI-E4E and KPI- X4E: High ventilation after switch ON	–	00	Disabled (factory setting)	This function forces that the unit will operate in high speed during 60 minutes after fan start. After this time the fan will be changed to setting value.
			01	60 minutes	
E6	Period of indoor fan operation after cooling operation stoppage	○	00	Disabled function (factory setting)	This function prevents the condensation in the unit by keeping the fan running after the unit operation has been turned OFF.
			01	60 minutes	
			02	120 minutes	
E7	Not used	-	00	-	Use at 00 conditions
			01		
E8	Control for stop of the indoor unit fan during heating Thermo- OFF conditions (with remote sensor THM- R2AE connected to the THM4 connector in the indoor unit PCB)	○	00	Fan operation in Low speed	This function stops the fan to prevent cold draughts or overheating. C8 must be set to 01 to use the E8=01 setting. The connection of a THM-R2AE remote temperature sensor to the THM4 port in the indoor unit PCB is required. The remote sensor shall be installed in a proper place for the correct detection of room temperature. (In case that automatic louver is set, the louver will keep operating in both Thermo-ON and Thermo- OFF condition.)
			01	Fan stop in Thermo-OFF conditions	
E9	Not Used	-	00	-	Use as 00 conditions
			01		
EA	Not used	-	00	-	Use at 00 conditions
			01		
			02		
Eb	Indoor unit fan control during cooling Thermo-OFF conditions	○	00	Function disabled (factory setting)	This function decreases speed of the indoor unit fan during cooling Thermo-OFF, to reduce the spread of smells and humidity.
			01	Low	
			02	Slow	
EC	Forced Thermo-ON when stopping in cooling operation	○	00	Function disabled (factory setting)	This function is used to force Thermo-ON during 6 minutes when stopping in cooling operation.
			01	Enabled	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
Ed	Not used	-	00	-	Use at 00 conditions
			01		
EE	Control in “Automatic” indoor fan speed mode	○	00	Function disabled (factory setting)	This function limits the speed of the indoor fan when room temperature is close to the setting temperature.
			01	Enabled	
EF	Control in “Automatic” indoor fan speed mode (supporting High H) Models: RCI-FSN4 RCIM-FSN4E RCD-FSN3 RPC-FSN3 RPI-FSN5E RPI-FSN3E(P)E(-f) RPIM-FSN4E(-DU) RPK-FSN(H)3M	○	00	Function disabled	This function limits the speed of the indoor fan when room temperature is close to the setting temperature, allowing to reach High H speed.
			01	Function enabled	
F0	Not available	-	“- -” permanent	–	–
F1	Automatic OFF timer setting Models: RCI-FSN4 RPC-FSN3 RPK-FSN3M RPI-FSN5E RPIM-FSN4E(-DU) RCD-FSN3 RCIM-FSN4E RPI-FSN3(P)E	×	00	Function disabled (Factory setting)	This function sets an automatic OFF timer to switch OFF the indoor units controlled by the remote control switch (when the units have been started by remote control). *(Do not set the values "0C"-"0F" when two remote control switches are used in the same remote control group)*
			01	1 hour	
			02	2 hours	
			03	3 hours	
			04-24	(04-24) hours	
			0A	30 minutes	
			0B	90 minutes	
			0C	40 minutes } Do not set these when two wired controllers are used.	
			0D	45 minutes	
			0E	50 minutes	
			0F	55 minutes	
	Automatic OFF timer setting Models: RPF(I)-FSN2E	×	00	Function disabled (Factory setting)	This function is used to set the automatic timer to switch off when the unit has been started by remote control.
			01	1 hour	
			02	2 hours	
			03	3 hours	
			04-24	(04-24) hours	
			0A	30 minutes	
			0B	90 minutes	
F2	Remote control main-sub setting	×	00	Main (Master remote control) (Factory setting)	This function is used to define which remote control switch is used as master or slave, when two remote controllers are connected to one indoor unit.
			01	Sub (Slave remote control)	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
F3	Automatic reset of setting temperature	×	00	Function disabled (Factory setting)	This function is used to limit unit operation and save energy. The setting temperature is automatically set to the value defined with functions "F5" or "F6", according to the current operation mode, after the time set with function "F4" has passed since the last manual change of setting temperature. In case that the values of "F5" or "F6" are out of the limits set with functions "FC" and "Fd", limitations set by "FC" and "Fd" have priority.
			01	Function enabled	
F4	Automatic reset time	×	00	30 minutes (factory setting)	This function sets the automatic reset time delay for function F3.
			01	15 minutes	
			02	60 minutes	
			03	90 minutes	
F5	Automatic reset temperature for cooling	×	19	19°C	This function defines the default temperature set point for the automatic reset function F3 in FAN/COOL/DRY modes.
			20	20°C	
			21	21°C	
			. . .	. . .	
			24	24°C	
			25	25°C (factory setting)	
			26	26°C	
			. . .	. . .	
			28	28°C	
			29	29°C	
			30	30°C	
F6	Automatic reset temperature for heating	×	17	17°C	This function defines the default temperature set point for the automatic reset function F3 in HEAT mode.
			18	18°C	
			. . .	. . .	
			20	20°C	
			21	21°C (factory setting)	
			25	25°C	
			. . .	. . .	
			28	28°C	
			29	29°C	
			30	30°C	
F7	Prevention of operation stoppage due to wrong operation of the remote controller	×	00	Function disabled (factory setting)	Operation is stopped by pressing the run/stop switch for 3 seconds.
			01	Function enabled	
F8	Lock function for operation mode selection	×	00	Function disabled	This function is used to prevent changes to the operation mode.
			01	Function enabled (factory setting)	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
F9	Lock function for temperature setting	×	00	Function disabled	This function is used to prevent changes to the temperature setting.
			01	Function enabled (factory setting)	
FA	Lock function for fan speed selection	×	00	Function disabled	This function is used to prevent changes to the fan speed.
			01	Function enabled (factory setting)	
Fb	Lock function for swing louver operation	×	00	Function disabled	This function is used to prevent changes to the automatic louver operation.
			01	Function enabled (factory setting)	
FC	Lower limit of setting temperature for cooling (Minimum value of setting temperature allowed in cooling)	×	00	Function disabled 19°C is the standard minimum set point. (factory setting)	This function defines the lowest temperature setting value for FAN/ COOL/DRY modes.
			01	+1°C (Lower limit 20°C)	
			02	+2°C (Lower limit 21°C)	
			03	+3°C (Lower limit 22°C)	
			· · ·	· · ·	
			08	+8°C (Lower limit 27ºC)	
			09	+9°C (Lower limit 28°C)	
			10	+10°C (Lower limit 29°C)	
Fd	Upper limit of setting temperature for heating (Maximum value of setting temperature allowed in heating)	×	00	Function disabled 30°C is the standard maximum set point. (factory setting)	This function defines the highest temperature setting value for HEATING mode. Models: RPF(I)-FSN2E up to 20ºC (FC=10)
			01	-1°C (Upper limit 29°C)	
			02	-2°C (Upper limit 28°C)	
			03	-3°C (Upper limit 27°C)	
			· · ·	· · ·	
			10	-10°C (Upper limit 20°C)	
			11	-11°C (Upper limit 19°C)	
			12	-12°C (Upper limit 18°C)	
FE	Not used	-	00	-	Use at 00 conditions
			01		
			02		
FF	Not Used	-	00	-	Use as 00 conditions
			01		
H1	No indication of maintenance alarm	×	00	Displayed	This function is used to display or hide the maintenance alarm indication.
			01	Hidden	
H2	Indication of hot start (No indication of operation limitation)	×	00	Displayed	This function is used to display or hide the automatic control indication. Models: RPF(I)-FSN2E Not available, use at 00 conditions
			01	Hidden	
H3	Operation mode change restriction	×	00	Unlimited operation	**NOTE** *"01" is available only when one controller is used. Do not use this setting when two controllers are used.*
			01	Operation mode set by central control equipment + "Fan" mode	
			02	Operation mode change not available (Hide operation mode) (Factory setting)	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
H4	Not Used	-	00	-	Use as 00 conditions
			01		
	KPI: Operation modes for the ventilation unit with energy recovery	o	00	Air conditioning only (factory setting)	This function is only available for ventilation units with energy recovery.
			01	Ventilation only	
			02	Air conditioning + ventilation	
H5	Not Used	-	00/01	-	Use as 00 conditions
H6	Not Used	-	00/01	-	Use as 00 conditions
J1	Not used	-	00	-	Use at 00 conditions
			01		
J2	Not used	-	00	-	Use at 00 conditions
			01		
J3	Colour of the Run indicator	×	00	Green (factory setting)	–
			01	Red	
J4	Not used	-	00/01	Not used (Use as 00 conditions)	
J5	Not used	-	00	-	Use at 00 conditions
			01		
J6	Not used	-	00	-	Use at 00 conditions
			01		
J7	Not used	-	00/01	-	Use as 00 conditions
J8	Eco-operation	×	00	Function disabled (factory setting)	When the unit is restarted by the remote control switch, the temperature automatically changes to the setting temperature of "F5" or "F6". Models: RPF(I)-FSN2E Not available, use at 00 conditions
			01	Function enabled	
J9	Not used	-	00	-	Use at 00 conditions
			01		
JA	Not Used	-	00/01	-	Use as 00 conditions
Jb	Not Used	-	00/01	-	Use as 00 conditions
F1	Not used	-	00	-	Use at 00 conditions
			01		
F2	Not used	-	00	-	Use at 00 conditions
			01		
F3	Not used	-	00	-	Use at 00 conditions
			01		
F4	Not used	-	00	-	Use at 00 conditions
			01		
			02		
			03		

Item	Optional function	Individual setting	Settings	Setting conditions	Description
A5	Detection level of the motion sensor kit	○	00	Standard (factory setting)	Models: RPF(I)-FSN2E Not available, use at 00 conditions. This parameter defines the sensitiveness of the motion sensor. The amount of activity in the room is assessed according to a different scale based on this setting. Detailed information about the operation of the motion sensor can be found in the technical documentation of the indoor units.
			01	High	
			02	Low	
A6	Selection of allowed operation modes when the control sensor of the indoor unit is set by C8 function	○	00	All modes allowed	This function is used to select the operation modes in which the setting of C8 (use of remote control switch sensor or remote sensor on THM4 to control the indoor unit) is enabled.
			01	Only cooling/dry allowed	
			02	Only heating allowed	
			03	All modes allowed	
A7	Not used	○	00	-	Use at 00 conditions
			01		
			02		
			03		
A8	Control for the prevention of condensation on the louvers.	○	00	Function disabled (factory setting)	Condensation may occur around air outlet during COOL/DRY operation with horizontal air flow or downward air flow for long periods. This function is used to prevent condensation by moving the louver swing angle to the third step automatically for 30 minutes every 1 hour. (In RPK units, this function is activated by means of DSW2-4 instead of the K8 optional function)
			01	Function enabled	
A9	Not used	-	00	-	Use at 00 conditions
			01		
AA	Not used	-	00	-	Use at 00 conditions
			01		
L1	Not used	○	00	-	Use at 00 conditions
			01		
			02		
			03		
L2	Not used	-	00	-	Use at 00 conditions
			01		
			02		
			03		
L3	Operation of the louvers in energy-saving Thermo-OFF (Cooling / Dry mode)	○	00	Direct air blow Low (factory setting)	Power save must be ON in order to use this function (L5 must be set to 01). This function is used to establish louver swinging operation ranging from continuous swing to static operation. Low: Continuous louver swing Medium: Louver swing with intermittent stops for 20/40 seconds High: Louver stopped at full opening position, according to the setting of CF.
			01	Direct air blow Medium	
			02	Direct air blow High	
			03	Disabled	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
L4	Fan acceleration in energy-saving Thermo-OFF (Cooling mode)	○	00	Function disabled (factory setting)	This function increases fan speed by one step to prevent the loss of comfort due to the forced Thermo-OFF for energy saving during cooling operation.
			01	Function enabled	
L5	Louver swing operation during energy-saving forced Thermo-OFF	○	00	Function disabled (factory setting)	This function is used to enabled the setting of function L3.
			01	Function enabled	
L6	Not used	-	00	-	Use at 00 conditions
			01		
L7	Not available	-	"- -" permanent	–	–
L8	Not used	-	00	-	Use at 00 conditions
			01		
L9	Not used	○	00	-	Use at 00 conditions
			01		
LA	Not used	-	00	-	Use at 00 conditions
			01		
Lb	Not used	-	00	-	Use at 00 conditions
			01		
P1	Setting temperature in 0.5ºC steps	×	00	Enabled (0.5 °C steps) (factory setting)	This function is used to define whether setting temperature is adjusted in 0.5ºC steps (when set to "00") or in 1ºC steps (when set to "01"). This setting also determines whether the resolution of temperature differential of the thermistor is 0.5ºC (when set to "00") or 1ºC (when set to "01").
			01	Disabled (1 °C steps)	
P2	Not used	-	00	-	Use at 00 conditions
			01		
P3	Temperature sensor displayed	×	00	Inlet air thermistor (Tin)	This function is used to select the thermistor whose temperature is shown when function P4 is set to 01.
			01	Outdoor air thermistor (Tout)	
			02	Remote controller thermistor (RCS)	
			03	Remote sensor (THM4)	
P4	Not used	-	00	-	Use at 00 conditions
			01	-	
P5	Display of setting temperature when operation mode is Fan	×	00	Shown	This function is used to hide the display of setting temperature during operation in fan mode.
			01	Hidden	
P6	Operation of the ECO button	×	00	ECO button enabled (factory setting)	The operation of ECO button is disabled when P6 is set to 01
			01	ECO button disabled	
P7	Prohibition of menu screen transition	×	00	Function disabled (factory setting)	This function is used to prohibit the access to the menu screens. The text "Display disabled" appears on screen instead.
			01	Function enabled	
P8	Not used	-	00	-	Use at 00 conditions
			01		
P9	Not used	-	00	-	Use at 00 conditions
			01		
PA	Daylight saving time	×	00	1 hour	This function is used to set the amount of adjustment when daylight saving time is applied.
			01	2 hours	

Item	Optional function	Individual setting	Settings	Setting conditions	Description
Pb	Not used	-	00	-	Use at 00 conditions
			01		
PC	Not used	-	00	-	Use at 00 conditions
			01		
91	Not used	×	00	-	Use at 00 conditions
			01		
92	Not used	×	-	-	Not used
93	Not used	×	-	-	Not used
94	Not used	×	-	-	Not used
95	Not used	×	-	-	Not used
96	Not used	-	00	-	Use at 00 conditions
			01		
97	Not used	-	00	-	Use at 00 conditions
			01		
98	Not used	-	00	-	Use at 00 conditions
			01		
99	Not used	-	00	-	Use at 00 conditions
			01		
9A	Not used	-	00	-	Use at 00 conditions
			01		
9b	Not used	-	00/01	-	Use as 00 conditions
9C	Not used	-	00/01/02/03/04	-	Use as 00 conditions
9d	Not used	-	00-11	-	Use as 00 conditions
r1	Dual setpoint	×	00	Function disabled (factory setting)	This function allows the setting of independent setpoints for cooling and heating in the automatic cooling/heating mode.
			01	Function enabled	
r2	Setting of temperature differential for switching cooling and heating	×	0.5	0.5ºC	This function can only be set when function r1 is set to 01.
			1.0	1.0ºC	
			1.5	1.5ºC	
			2.0	2.0ºC	
			2.5	2.5ºC	
			3.0	3.0ºC	
r3	Setback temperature compensation	×	0.5	0.5ºC	This setting is the temperature differential value to adjust the setting temperature during Setback operation.
			1.0	1.0ºC	
			1.5	1.5ºC	
			2.0	2.0ºC	
			2.5	2.5ºC	
			3.0	3.0ºC	
			3.5	3.5ºC	
			4.0	4.0ºC	
			4.5	4.5ºC	
			5.0	5.0ºC	
			5.5	5.5ºC	
r4	Not used	-	00	-	Use at 00 conditions
			01		
r5	Not used	-	00	-	Use at 00 conditions
			01		
r6	Not used	-	00	-	Use at 00 conditions
			01		

Item	Optional function	Individual setting	Settings	Setting conditions	Description
r7	Not used	-	00	-	Use at 00 conditions
			01		
r8	Not used	-	00	-	Use at 00 conditions
			01		
r9	Not used	-	01	-	Use at 00 conditions
			02		
rA	Not used	-	00-07	-	Use at 00 conditions
rb	Not used	-	00-12	-	Use at 00 conditions
S1	Not used	-	00	-	Use at 00 conditions
			01		
S2	Not used	-	00	-	Use at 00 conditions
			01		
S3	Not used		00	-	Use at 00 conditions
			01		
S4	Not used		00	-	Use at 00 conditions
			01		
S5	Not used		00	-	Use at 00 conditions
			01		
S6	Not used		00	-	Use at 00 conditions
			01		
			02		
S7	Not used		00-07	-	Use at 00 conditions
S8	Not used		00-15	-	Use at 00 conditions

NOTE

- *The changes to the optional function settings must be done after 3 minutes have passed since start-up.*
- *It is recommended to keep track of the changes made to optional function settings, for further reference.*
- *The available optional settings are different depending on the indoor and outdoor unit models. Check the technical documentation of the indoor and outdoor units to ensure whether the optional settings are available for these units.*
- *The above optional functions marked with an "X" at the individual setting can change the condition only when "All Rooms" is set.*

4.2.12.2 Remote control optional functions

b1 – Removal of heating temperature compensation (due to uneven heat load)

This function is used when the temperature settings of the remote control switch and the suction air temperature of the indoor unit are required to be equal.

This is useful when the thermistor at the suction side of an indoor unit is removed and installed in another place.

Setting temperature for room temperature control at heating

Setting condition	Actual control temperature
00 (Standard)	Remote control switch setting temperature (indicated value) +4ºC
01	Remote control switch setting temperature (indicated value)
02	Remote control switch setting temperature (indicated value) +2ºC

NOTE

The setting temperature upper limit after compensation is as follows: Inverter Multi Unit: 34°C

b1 – Removal of heating temperature compensation

This function is used to adjust the difference of temperature between the setting temperature of the remote control switch and the inlet air temperature of the indoor unit.

This is useful when the inlet air thermistor is not placed inside the indoor unit or due to uneven heat load or for example in standard heating mode, the suction air temperature is greater than that of the room, therefore the setting temperature used according to the factory setting is calibrated to the indicated temperature +4°C, but depending on the room conditions can be necessary to compensate a smaller value.

b2 – Circulator function at heating Thermo-OFF

This function means that the fan unit remains running after the air conditioning system has stopped in heating mode to prevent the air in the room from stratifying.

This function is useful when the air in the room is stratified (hot air accumulates at the ceiling). Air stratification may occur if has been selected fan speed changes to LOW when the thermostat of the unit is stopped. This function prevents air stratification in the room after stopping the air conditioning system.

This function maintains the fan speed, whether the thermostat is on or off. Hence, the air movement in the room is kept at the same level to ensure even air distribution.

NOTE

- *If the indoor unit has an automatic louver, this function also remains active when the heating thermostat is switched off.*
- *Everyone has a different perception of coolness, heat and air flow and, therefore, this issue should be discussed with the client and the unit set according to the results of the conversation.*

b3 – Not used

b4 – Change of the filter cleaning period

This function is used to modify the period during which the remote control indicates the air filter replacement. The filter cleaning period can be changed depending on the condition of the filter.

NOTE

- *The remaining number of hours before cleaning the filter is factory-set for all indoor unit models b2=02 (1200 hours).*
- *For RPK-FSN(H)3M models Factory-Setting is b4=00: Standard setting 200 hrs.*

b5 – Locking of operation mode

This function is used when the operating mode does not have to be changed. Once the unit operating mode has been selected, this function prevents it from being modified from the remote control.

b6 – Locking of temperature setting

This function is used when the temperature setting does not have to be changed. Once the unit temperature has been selected, this function prevents it from being modified from the remote control.

b7 – Setting operation mode as cooling only

This function is available to use refrigeration mode only and to prevent heating mode from being enabled. When this function is selected, heating operation and the automatic COOL/HEAT operation are cancelled.

b8 – Automatic COOL/HEAT operation

This function allows the automatic change from the cooling to the heating mode for the units with the same refrigerant cycle.

NOTE

This function is not valid when the outdoor unit is an exclusive cooling model or when the function to set operations as an exclusive cooling unit is enabled.

b9 – Locking of fan speed setting

Once the unit fan speed has been selected, this function prevents it from being modified from the remote control.

NOTE

When this function is enabled, the fan speed cannot be changed using the remote control.

bA – Not available

bb – Cooling setting temperature correction

This function decrease the temperature and it is used to obtain longer cooling periods. When this function is enabled, the air conditioning system is switched on/off with the temperature condition below the temperature indicated on the remote control.

NOTE

The lower set temperature limit after offset is 19ºC.

bC – Not used

bd – Not used

bE – Not used

C1 – Not used

C2 – Not available

C3 – Not used

C4 – Not used

C5 – Increasing fan speed / Static pressure selection

This function is used to change the indoor units fan speed installed in high ceilings.

For RPI units this function is used to change the static pressure from the remote control.

C6 – Increasing fan speed at heating Thermo-OFF

This function is used to increase the fan speed when the thermostat reaches the set temperature in heating using function C5.

NOTE

The fan speed does not increase when the thermostat is switched off with the function setting (C5).

C7 – Cancellation of forced compressor operation for at least 3 minutes

This function is available when b3 (Forced compressor operation for at least three minutes through C7 setting) is set 00 (C7 setting possible).

This function allows that the compressor are not forced 3 minutes operation.

NOTE

In the case of SET FREE units, the forced compressor operation for at least 3 minutes fixed as a standard function.

C8 – Thermistor of remote control switch and remote sensor

This function is useful when the unit is to be controlled by the thermistor included in the remote control or by remote sensor instead of by the suction air thermistor. It determines the thermistor to control the air temperature.

NOTE

When the function is set to "01" or "02", if the temperature detected by the remote control thermistor is abnormal due to a fault in the remote control thermistor or another fault, the Air Inlet Thermistor on the indoor unit is used automatically.

C9 – Not available

CA – Not available

Cb – Selection of forced stoppage logic

This function determines the operating logic for the forced stoppage contacts.

The setting conditions and contact logic are shown in the following table:

Setting condition				
Setting	Contact	Contact logic	Activation contact	
			Open	Closed
00	Contact A	Normally open	Normal	Forced stoppage
01	Contact B	Normally closed	Forced stoppage	Normal

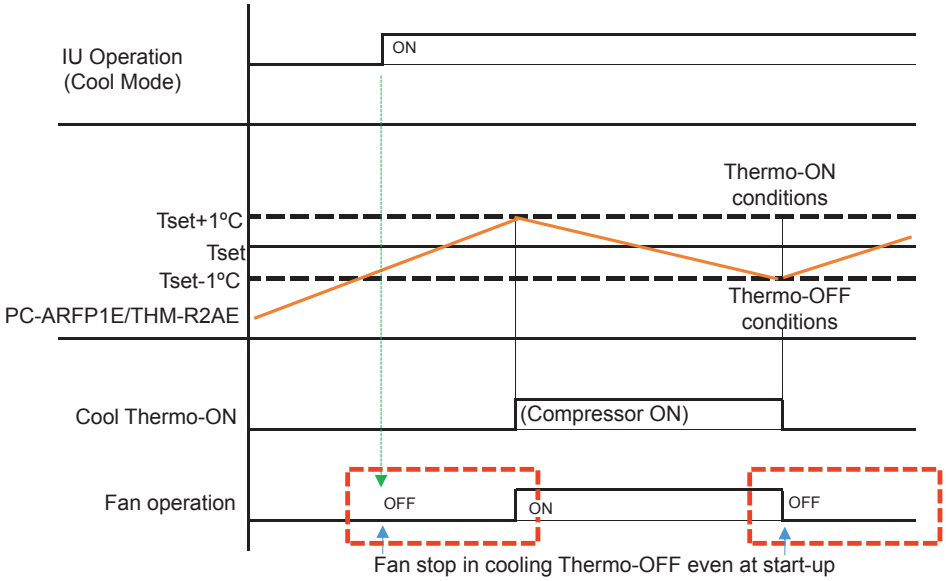
CC – Not used

Cd – Stop of indoor unit fan during cooling Thermo-OFF conditions

Fan stop operation in Thermo-OFF conditions when using the additional remote temperature sensor THM-R2AE (connected to THM4) or PC-ARFP1E temperature sensor

This optional function keeps the fan stopped when the indoor unit is in Thermo-OFF conditions, even upon start-up.

"Cd=01": Fan stop operation in Thermo-OFF conditions when using the additional remote temperature sensor THM-R2AE (connected to THM4) or PC-ARFP1E temperature sensor ("C8=01" must be set in this case).



NOTE

It is advised to pay attention to the following points:

- *Do not set this function if no remote control sensor (in PC-ARFP1E) or remote sensor (THM-R2AE) are installed; otherwise, comfort conditions may never be reached.*
- *Do not set "Cd" function when indoor unit temperature control is based on:*
  - *"C8=00" : Temperature control with the air inlet sensor of the indoor unit.*
  - *"C8=02" : Temperature control with the average value of the remote control sensor and the air inlet sensor of the indoor unit. In these cases, comfort conditions may never be reached.*
- *In case that Automatic louver is set, the louver will keep operating in both Thermo-ON and Thermo-OFF conditions.*

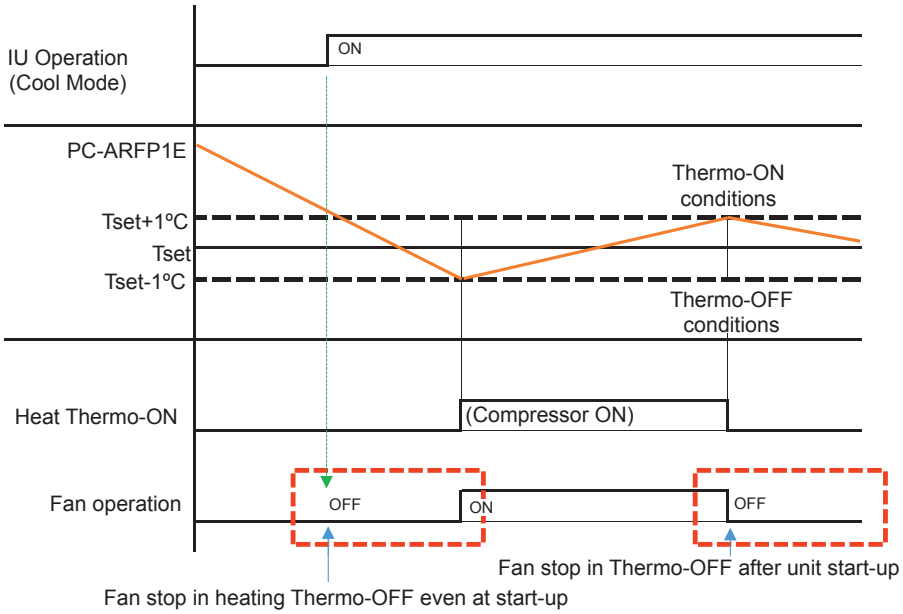
CE – Stop of indoor unit fan during heating Thermo-OFF conditions

This function is useful to avoid the perception of cold draughts.

When "CE=01" : Fan stop operation in Thermo-OFF conditions when using the PC-ARFP1E sensor, "C8=01" must be set in this case. The fan will not be turned on when the indoor unit is switched on in Thermo-OFF conditions.

Indoor unit will use the PC-ARFP1E remote control temperature sensor to monitor the room temperature when fan is stopped (heating Thermo-OFF fan stop sequence). The remote control switch shall be installed in a proper place for the correct detection of room temperature by its temperature sensor

Control by remote temperature sensor not permitted.

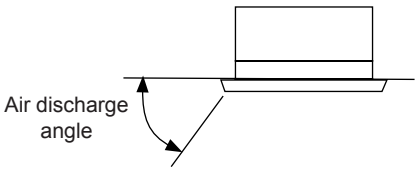


NOTE

- *These functions are only available when using the remote control sensor (in PC-ARFP1E).*
- *Note: When using CE function:*
  - *"C8=00" : this setting is not permitted.*
  - *"C8=02" : this setting is not recommended since it may cause that comfort conditions are never reached (C8 set at 02 means that unit control is carried out with the average value of the remote control sensor and the air inlet sensor of the indoor unit).*
- *In case that automatic louver is set, the louver will keep operating in both Thermo-ON and Thermo-OFF conditions*

CF – Modification of louver swing range

This function is useful when the louver swing angle (air discharge angle) must be changed.



Setting condition	Louver swing angle (Air discharge angle)	Purpose
00	7 steps	Standard operation
01	5 steps	Cold draft prevention
02	5 steps (*)	For high ceiling

NOTE

(*) Not used for RPK-FSN(H)3M.

d1 – Power supply ON/OFF 1 (Automatic operation when power supply is ON)

This function stores the unit settings in the event of a power cut. The unit is restarted when the power is re-established.

CAUTION

When this function is used without anyone controlling the unit, set the system monitoring mode to avoid risks.

NOTE

In the event of an electrical fault, the unit starts and stops according to the on/off setting of the power supply. If the fault occurs during a stoppage enabled through the remote control, the unit will restart automatically once the power supply is reconnected.

d2 – Not available

d3 – Power supply ON/OFF 2 (Restarting runction after power failure)

This function is used to restart the unit after a power cut taking more than 2 seconds. The standard unit starts automatically under the same operating conditions, such as the operating mode, etc. in the case of an electrical fault lasting for a maximum of 2 seconds.

The compressor unit restarts after 3 minutes plus the maximum 2 seconds of the fault.

CAUTION

When this function is used without anyone controlling the unit, set the system monitoring mode to avoid risks.

d4 – Not used

d5 – Prevention of decrease of heating discharge air temperature

This function prevents a drop in the air temperature by decreasing the fan speed, apart from the settings on the remote control.

d6 – Not used

d7 – Not available

E1 – Not used

E2 – Not used

E3 – Not used

E4 – Not used

E5 – Not used

E6 – Period of indoor unit fan operation after cooling operation stoppage

This functions prevents the condensation accumulation in the unit by keeping the fan running after it is switched off.

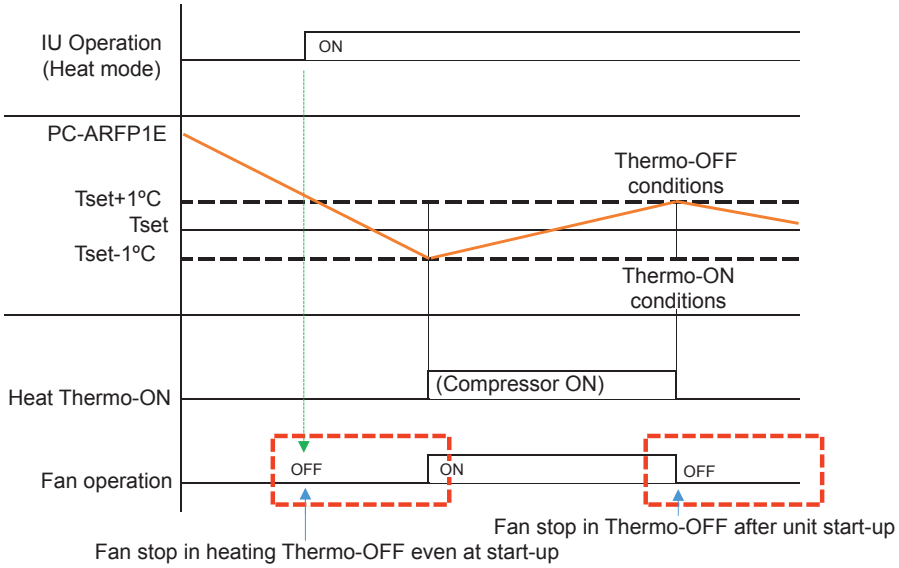
E7 – Not used

E8 – Fan operation control at heating Thermo-OFF

This function is useful to avoid the perception of cold draughts by stopping the indoor fan speed with the heating Thermo- OFF. These functions are only available when using the remote sensor (THM-R2AE).

THM-R2AE Remote temperature sensor (connected to the THM4 port on the IU PCB) is required.
This function stops the fan to prevent cold draughts.

The remote sensor shall be installed in a proper place for the correct detection of room temperature.



NOTE

- *These functions are only available when using the remote sensor (THM-R2AE).*
- *Note: When using E8 function:*
  - *"C8=00" : this setting is not permitted.*
  - *"C8=02" : this setting is not recommended since it may cause that comfort conditions are never reached (C8 set at 02 means that unit control is carried out with the average value of the Remote Sensor and the air inlet sensor of the indoor unit).*
- *In case that Automatic louver is set, the louver will keep operating in both Thermo-ON and Thermo-OFF conditions.*

E9 – Not used

EA – Not used

Eb – Fan operation control at cooling Thermo-OFF

This function reduces the unit fan speed to reduce the spreading of smells and humidity.

EC – Forced Thermo-ON stoppage at cooling operation

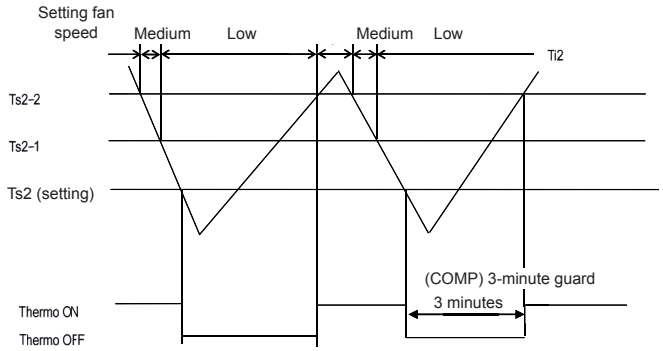
This function is used to force Thermo-ON during 6 minutes when stopping in cooling operation. It is effective for avoiding unpleasant smells, as the heat exchanger remains clean, e.g. it is rinsed with drainage water.

Ed – Not used

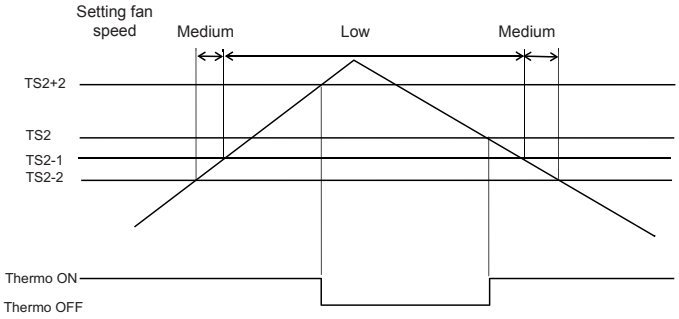
EE – Automatic fan speed control

This function limits indoor fan speed when room temperature is close to setting temperature.

- When EE: Automatic indoor fan speed mode is set to "01: Enabled" in the function selection of the remote control, operation is carried out in automatic indoor fan speed mode.
- When setting fan speed is set as to "Auto" with the remote control, operation is carried out in automatic indoor fan speed mode with "High wind" as setting fan speed.
- Cooling
  - Indoor control temperature (Ti2) - Setting temperature 2 (Ts2) ≥ 2deg ºC: Setting fan speed
  - Indoor control temperature (Ti2) - Setting temperature 2 (Ts2) ≥ 1deg ºC: Medium (Low when setting fan speed is Low)
  - Indoor control temperature (Ti2) - Setting temperature 2 (Ts2) < 1deg ºC: Low



- Heating
  - Setting temperature 2 (Ts2) - Indoor control temperature (Ti2) ≥ 2deg ºC: Setting fan speed
  - Setting temperature 2 (Ts2) - Indoor control temperature (Ti2) ≥ 1deg ºC: Medium (Low when setting fan speed is Low)
  - Setting temperature 2 (Ts2) - Indoor control temperature (Ti2) < 1deg ºC: Low



- Maintenance of fan speed for 3 minutes
  - In switch ON with the remote control, fan speed is set to the setting fan speed, and then it enters in automatic mode after 3 minutes have passed. The switching of fan speed depending on temperature differential is performed when entering in the automatic mode, regardless of being in Thermo-ON or Thermo-OFF.
  - Once that fan speed is switched after Thermo-ON, the fan speed after the change is maintained for 3 minutes. (*) The aforementioned switching of fan speed depending on temperature differential is performed after 3 minutes have passed. Setting Temperature is the Temperature used for Thermo-OFF.
  - When switching fan speed due to a function of the motion sensor, it is switched immediately even during the 3 minutes of maintenance of fan speed.
  - When switching fan speed due to the control of the sensor for heating radiation temperature, it is switched immediately even during the 3 minutes of maintenance of fan speed.
  - When switching fan speed due to the beginning of the heating draft control, it is switched immediately even during the 3 minutes of maintenance of fan speed.

NOTE

**: However, when EE=01:Enabled is set, in case of switching setting fan speed from the remote control, it is directly switched to the automatic fan speed corresponding to the setting fan speed. When EE=00: Disabled is set, in case of switching setting fan speed from "Automatic" to "Other than automatic" from the remote control, it is directly switched to the setting fan speed. Also, in case of switching setting fan speed from "Other than automatic" to "Automatic" from the remote control, the switching of fan speed depending on temperature differential is carried out if being in Thermo-ON, while the switching of fan speed depending on temperature differential is not carried out if being in Thermo-OFF, and fan speed becomes the fan speed of the last automatic mode.*

- Common items
  - In case of changing from Thermo-ON to Thermo-OFF at the beginning of the automatic mode, the fan speed during Thermo-OFF is that of right after Thermo-OFF. Also, the switching of fan speed is not performed during Thermo-OFF. (When switching from Thermo-ON to Thermo-OFF, the maintenance of fan speed for 3 minutes is released, and the switching of fan speed depending on temperature differential is carried out)
  - The target of the automatic switching is the part of the control which operates at the normal setting fan speed.
  - When using a room thermostat and in test run, it is set to setting fan speed.
  - Even in case that the heating circulator is enabled (Function selection b2=01), it is set to the fan speed of the automatic indoor fan speed mode.

NOTE

- *The maximum fan speed in "Auto" mode is "High", unless EF function is also activated.*
- *Econofresh present, E1=01 and Fan speed setting is "Auto" mode, fan speed is fixed to "High"*

EF – Automatic indoor fan speed mode (supporting High H)

This function allows to increase the maximum fan speed to "High H" in "Auto" mode.

This function allows to increase the maximum fan speed to "High H" in "Auto" mode.

- Cooling

  Indoor control temperature (Ti2) - Setting temperature 2 (Ts2) ≥ 2deg ºC: Setting fan speed

  Indoor control temperature (Ti2) - Setting temperature 2 (Ts2) ≥ 1deg ºC: Medium

  Indoor control temperature (Ti2) - Setting temperature 2 (Ts2) < 1deg ºC: Low
- Heating

  Setting temperature 2 (Ts2) - Indoor control temperature (Ti2) ≥ 2deg ºC: Setting fan speed

  Setting temperature 2 (Ts2) - Indoor control temperature (Ti2) ≥ 1deg ºC: Medium

  Setting temperature 2 (Ts2) - Indoor control temperature (Ti2) < 1deg ºC: Low
- Relation with the automatic indoor fan speed mode (EE)

Setting of function selection EF	Setting of function selection EE	Remote control setting				
		Auto	High H	High	Medium	Low
00	00	High~Low	High2	High	High	Low
00	01	High~Low	High2~Low	High~Low	Medium~Low	Low
01	00	High2~Low	High2	High	High	Low
01	01	High2~Low	High2~Low	High~Low	Medium~Low	Low

F0 – Not available

F1 – Automatic OFF timer setting

This function is used to switch off the timer automatically when the unit is started using the remote control.

It is not possible to cancel or change the timer off setting during automatic timer off setting. However, it can be cancelled when the unit is stopped. When the unit is restarted, the off timer setting period is established according to the optional setting. Do not set the functions "0C"-"0F" when two remote control switches are used in the same remote control group.

NOTE

This function is not available for control using CSNET WEB or CSNET Manager or 7-day timer.

F2 – Remote control main-sub setting

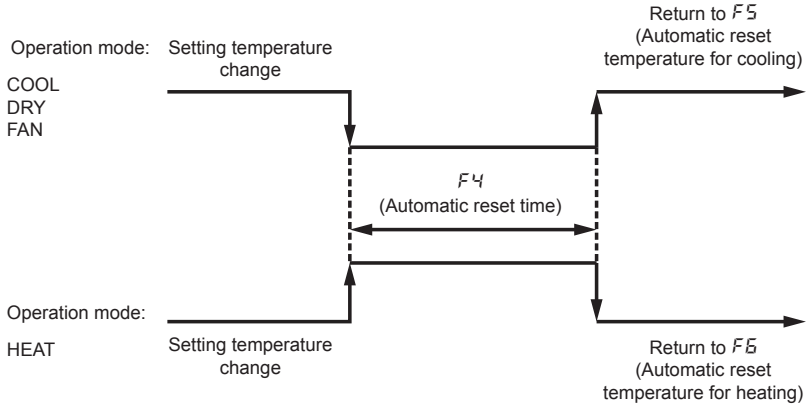
This function is useful when configuring two remote controls for the same installation: one in main mode and the other in secondary mode.

F3 – Automatic reset of setting temperature

This function releases the fixed temperature setting after a certain time to limit unit operations and save energy.

In case that the set temperature is changed and kept within the set time at "F4", the temperature is automatically changed to "F5" and "F6". In case that the set temperature is out of range at "F5" and "F6", it is applied within upper and lower limit for the set temperature.

However, the temperature configuration does not perform the automatic Reset when operating in Automatic COOL/HEAT mode or operations using the remote control for the central unit are forbidden.



F4 – Automatic reset time

This function is used to set the automatic reset time with the temperature setting.

F5 – Automatic reset temperature for cooling

This function is used to set automatic temperature reset in FAN/COOL/DRY modes.

F6 – Automatic reset temperature for heating

This function is used to set automatic temperature reset in HEAT mode.

F7 – Prevention of operation stoppage due to remote control operating error

This function prevents the stoppage when pressing the start/stop button in the remote controller by error.

NOTE

Operation is stopped by pressing the run/stop switch for 3 seconds.

F8 – Lock function for operation mode selection

This function is used to prevent changes to the operating mode.

F9 – Lock function for temperature setting

This function is used to prevent changes to the temperature setting.

FA – Lock function for fan speed selection

This function is used to prevent changes to the fan speed.

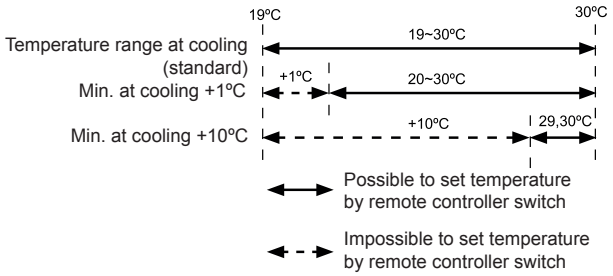
Fb – Lock function for swing louver operation

This function is used to prevent changes to automatic louver operations.

FC – Lower limit of setting temperature for cooling

This function is used to define a lower temperature setting limit for FAN/COOL/DRY modes. It enables the cooling range to be reduced for configuration using the remote control.

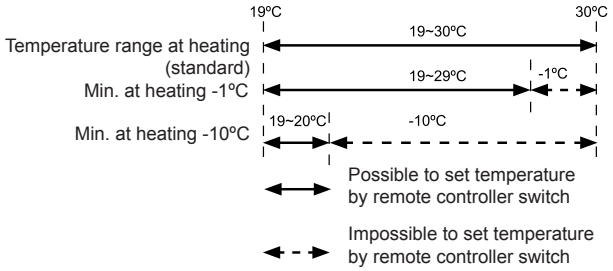
An example is shown in the following figure:



Fd – Upper limit of setting temperature for heating

This function is used to define an upper temperature setting limit for the HEAT function. This function enables the heating range to be reduced for configuration using the remote control.

An example is shown in the following figure:



FE – Not used

FF – Not used

H1 – No indication of maintenance alarm

This function is used to display or hide the maintenance alarm indication.

H2 – Indication of hot start (No indication of operation limitation)

This function is used to display or hide the automatic control indication.

H3 – Operation mode change restriction

This function is used in order to configure restrictions about the operation mode change action.

When this function is “00”, the operation mode change is disabled.

When this function is “01”, the operation mode change is only allowed from central control unit and mode FAN.

When this function is “02”, there are no restrictions.

H4 – Not used

H5 – Not used

H6 – Not used

J1 – Not used

J2 – Not used

J3 – Colour of the run indicator

This function is used to set the run indicator colour.

J4 – Not used

J5 – Not used

J6 – Not used

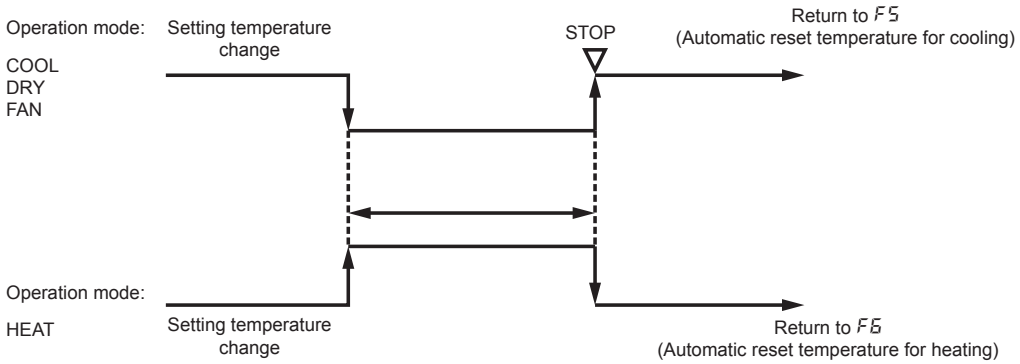
J7 – Not used

J8 – Eco-operation

This function is used to optimise the setting of temperature and provide energy saving.

When the setting temperature is changed during the air conditioning operation and while the operation is started/stopped by RUN/STOP on the remote control switch, the set temperature automatically returns to “Automatic Reset Temperature for Cooling/Heating (F5/F6)” (as shown in the next illustration).

However, the setting temperature is not automatically reset in the case that “Automatic COOL/HEAT Operation” mode, or “Prohibiting Operation by Remote Control Switch” is set by the centralized controller.



J9 – Not used

JA – Not used

Jb – Not used

A1 – Not used

A2 – Not used

A3 – Not used

A4 – Not used

A5 – Detection level of the motion sensor kit

This function is used to determine the amount of human activity depending on the reaction rate.

When “High” is set, the detection level becomes more sensitive. When “Low” is set the sensor becomes lower.

	Setting conditions		
	00 (factory setting)	01	02
Human activity	**Standard**	**High sensitive**	**Low sensitive**
Large	30% ≤ Reaction rate	20% ≤ Reaction rate	40% ≤ Reaction rate
Small	3% < Reaction rate < 30%	3% < Reaction rate < 20%	3% < Reaction rate < 40%
Not available	Reaction rate ≤ 3%	Reaction rate ≤ 3%	Reaction rate ≤ 3%

A6 – Selection of allowed operation modes

This function is used to select the operation modes in which the setting of C8 (use of remote control switch sensor or remote sensor on THM4 to control the indoor unit) is enabled.

A7 – Not used

A8 – Control for the prevention of condensation in the louvers

In that units that are equipped with louvers, condensation may occur around the air outlet during operation in cooling or dry modes, when horizontal air flow or downward air flow are sustained for long periods.

This function is used to prevent condensation by setting the louver swing angle to the third step automatically for 30 minutes every 1 hour.

(In RPK units, this function is activated by means of DSW2-4 instead of the H8 optional function).

A9 – Not used

AA – Not used

L1 – Not used

L2 – Not used

L3 – Operation of the louvers in energy-saving Thermo-OFF (Cooling / Dry mode)

Power save must be ON in order to use this function (L5 must be set to 01). This function is used to establish louver swinging operation ranging from continuous swing to static operation.

- Low: Continuous louver swing
- Medium: Louver swing with intermittent stops for 20/40 seconds
- High: Louver stopped at full opening position, according to the setting of CF.

L4 – Fan acceleration in energy-saving Thermo-OFF (Cooling mode)

This function increases fan speed by one step to prevent the loss of comfort due to the forced Thermo-OFF for energy saving during cooling operation.

L5 – Louver swing operation during energy-saving forced Thermo-OFF

This function is used to enabled the setting of function L3.

L6 – Not used

L7 – Not available

L8 – Not used

L9 – Not used

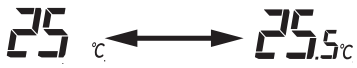
LA – Not used

Lb – Not used

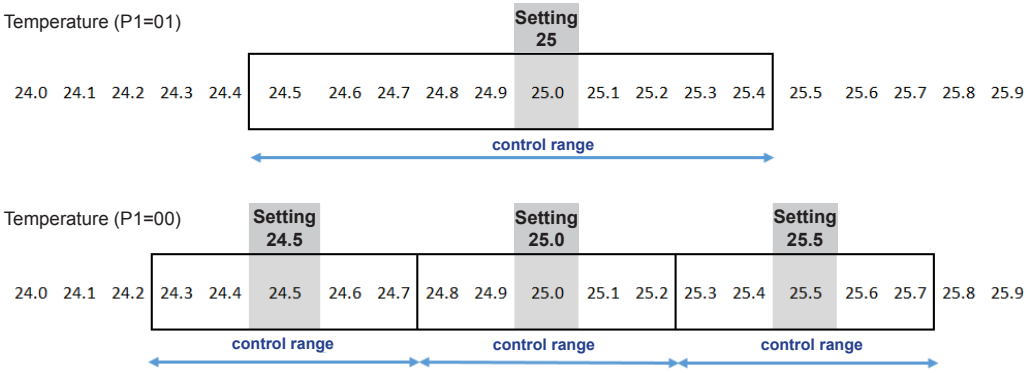
P1 – Setting temperature in 0.5°C steps

This function is used to define whether setting temperature is adjusted in 0.5°C steps (when set to “00”) or in 1°C steps (when set to “01”).

This setting also determines whether the resolution of temperature differential of the thermistor is 0.5°C (when set to “00”) or 1°C (when set to “01”) enabling more precise setting control.



Simplified scheme of the control system (for illustrative purposes only, as the control system also manages other parameters):



P2 – Not used

P3 – Temperature sensor displayed

This function is used to select the thermistor whose temperature is shown.

P4 – Display of sensor temperature

This function is used to display the temperature of the sensor selected with P3.

P5 – Display of setting temperature when operation mode is Fan

This function is used to hide the display of setting temperature during operation in fan mode.

P6 – Operation of the ECO button

The Operation of ECO button is disabled when P6 is set to 01.

P7 – Prohibition of menu screen transition

This function is used to prohibit the access to the menu screens. The text “Display disabled” appears on screen instead.

PA – Daylight saving time

This function is used to set the amount of adjustment when daylight saving time is applied

P8 – Not used

P9 – Not used

Pb – Not used

PC – Not used

91 – Not used

92 – Not used

93 – Not used

94 – Not used

95 – Not used

96 – Not used

97 – Not used

98 – Not used

99 – Not used

9A – Not used

9b – Not used

9C – Not used

9d – Not used

r1 – Dual set point

Function in the automatic cooling/heating mode allowing the preset of respective setpoint for cooling and heating.

r2 – Setting of temperature differential for switching cooling and heating

Function in the automatic cooling/heating mode allowing the preset of respective setpoint for cooling and heating.

r3 – Setback temperature compensation

r4 – Not used

r5 – Not used

r6 – Not used

r7 – Not used

r8 – Not used

r9 – Not used

rb – Not used

51 – **Not used**

52 – **Not used**

53 – **Not used**

54 – **Not used**

55 – **Not used**

56 – **Not used**

57 – **Not used**

58 – **Not used**

4.2.13 Alarm indication

The run LED (green) will flash. The LCD screen will show the following information:

- Number of indoor unit affected by the alarm.
- Alarm code.
- Unit model.
- Number of indoor units connected to the system.

NOTE

- *The Alarm code corresponds to the alarm that is happening on the unit.*
- *Refer to the Service Manual of the unit to know the meaning of the alarm code.*

4.2.14 Function availability vs. different series

New Functions	PC-ARH1E	RCIM-FSN4E	RCI-FSN4	RPK-FSN4M	RPC-FSN3	RCD-FSN3	RPIM-(0.6-1.5)FSN4E	RPI-(0.4~3.0)FSN5E	RPI-(4.0-6.0)FSN5E	RPI-(8.0-10.0)FSN3E	RPF(I)-FSN2E	IVX RAS-(2-12)H(V)NP1(E) Centrifugal RASC-(4-10)HNPE	IVX RAS-(3-12)H(V)NC1(E)	SET FREE Mini (RAS-(4-6)FS(V)NME	SET FREE Sigma RAS-(8-96)FSXNSE& RAS-(5-72)FSXNPE SET FREE Mini (RAS-(8-12)FSXNME)	Compatible software
Software	From beginning of mass production	P-4729	P-4736	From beginning of mass production	P-4736	P-4729	P-4735	P-4725	P-4735	Current	Current	--	--	--	--	--
Sensor selection for temperature control																
Parameter C8: Optional Setting for indoor unit control by RCS sensor or remote sensor (THM4)	o	Depends on Remote Controller (RCS)														⊙
Parameter K6: operating mode by THM4 or RCS sensor only in COOL/DRY mode	o	o	o	o	o	o	x	o	x	x	x	Depends on RCS and Indoor Unit				▲
Special European market functions for Fan stop in Thermo-OFF																
Parameters Cd: Fan stop in cooling Thermo-OFF by THM4 or RCS sensor control.	o	o	o	o	o	o	o	o	o	o	o	Depends on RCS and Indoor Unit				▲
Parameters CE: Fan stop in heating Thermo-OFF by RCS sensor	o	o	o	o	o	o	o	o	o	o	o	Depends on RCS and Indoor Unit				▲
Parameter E8: Fan stop during Thermo-OFF when THM4 is connected	o	o	o	o	o	o	o	o	o	o	o	Depends on RCS and Indoor Unit				▲
Temperatures display in RCS																
Parameters J1: Temporary ambient temperature (C8) display on the RCS.	x	Depends on connected Remote Controller														⊙
Parameters P3, P4: Ambient temperature display on the RCS.	o	Depends on connected Remote Controller														⊙
Parameter P5: Setting temperature display on the RCS. (hidden for Fan operation mode)	o	Depends on connected Remote Controller														⊙
Parameter P1: Temperature setting width (0.5°C)	o	o	o	o	o	o	o	o	o	o	o	Depends on RCS and Indoor Unit				▲
Function preventing uncomfortable operation																
Parameter d4: Prevention for cooling discharge air temperature decrease RPK---Default ON Cancel function by using DSW2-4=OFF	o	x	x	x	x	x	o	x	o	o	o	Depends on RCS and Indoor Unit				▲
Comfort setting: 1-4	x	o	o	o	o	o	x	o	x	x	x	Depends on RCS and Indoor Unit				▲
Parameter K8: control of dew condensation prevention by IU louvers (For RPK activation by DSW2-4 instead of K8)	o	o	o	x	o	o	x	x	x	x	x	Depends on RCS and Indoor Unit				▲
							(no louver)									
Energy saving/noise/Eco functions																
"Parameter d6: Room temperature control for energy saving IU in Cool Thermo-OFF when Tout<Tin"	o	o	o	o	o	o	o	o	o	o	o	x	o	o	o	■
Power saving function	o	o	o	o	o	o	o	o	o	o	x	x	o	o	o	■
ECO button	o	Depends on connected Remote Controller														⊙
Noise reduction operation	o	o	o	o	o	o	o	o	o	o	x	x	o	o	o	■
Power saving and noise reduction scheduled operations	o	o	o	o	o	o	o	o	o	o	x	x	o	o	o	■
Power consumption display	o	o	o	o	o	o	o	o	o	o	x	x	o	o	o	■
ECONOFRESH control	o	x	x	x	x	x	x	x	o	x	x	Depends on RCS and Indoor Unit				▲
Setback function																
Setback function for hotel application (key card)	o	o	o	o	o	o	o	o	o	x	x	Depends on RCS and Indoor Unit				▲
Smart set back function (key card, timer, manual)	x	o	o	o	o	o	o	o	o	x	x	Depends on RCS and Indoor Unit				▲
Auto Cool/Heat with dual setting																

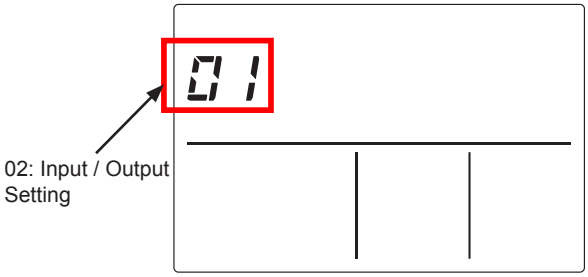
New Functions	PC-ARH1E	RCIM-FSN4E	RCI-FSN4	RPK-FSN4M	RPC-FSN3	RCD-FSN3	RPIM-(0.6-1.5)FSN4E	RPI-(0.4~3.0)FSN5E	RPI-(4.0-6.0)FSN5E	RPI-(8.0-10.0)FSN3E	RPF(I)-FSN2E	IVX RAS-(2-12)H(V)NP1(E) Centrifugal RASC-(4-10)HNPE	IVX RAS-(3-12)H(V)NC1(E)	SET FREE Mini (RAS-(4-6)FS(V)NME	SET FREE Sigma RAS-(8-96)FSXNSE& RAS-(5-72)FSXNPE SET FREE Mini (RAS-(8-12)FSXNME)	Compatible software
Software	From beginning of mass production	P-4729	P-4736	From beginning of mass production	P-4736	P-4729	P-4735	P-4725	P-4735	Current	Current	--	--	--	--	--
Simple Auto Cool / Heat with dual set point	o	o	o	o	o	o	o	o	o	x	x	Depends on RCS and Indoor Unit				▲
Smart Auto Cool / Heat with dual set point	x	o	o	o	o	o	o	o	o	x	x	Depends on RCS and Indoor Unit				▲
Auto Cool/Heat with single setting																
Improvement for AUTO COOL HEAT operation mode (new differential temperature set temp.- Room Air Temp. = 2°C instead of 3°C)	o	o	o	o	o	o	o	o	o	o	o	Depends on RCS and Indoor Unit				▲
Setting main / sub controller	o	o	o	o	o	o	o	o	o	o	x	x	x	o	o	■
Operation mode / Tset priority	o	o	o	o	o	o	o	o	o	o	x	x	o	o	o	■
Quick functions	o	o	o	o	o	o	o	o	o	o	x	x	o	o	o	■
Others																
CN3 inputs i1 and i2 status read through H-LINK		o	o	o	o	o	o	o	o	o	o	Depends on RCS and Indoor Unit				▲
0.4HP IU model		o	x	o	x	x	x	o	x	x	x	Depends on RCS and Indoor Unit				▲
Languages	--	Depends on connected Remote Controller														⊙

o	Available
x	Not available
⊙	Function depending on remote controller switch
▲	Function depending on remote controller switch + indoor unit software
■	Function depending on remote controller switch + indoor unit + outdoor units software

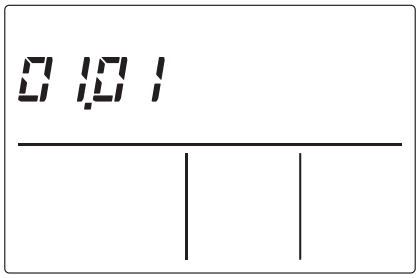
4.2.15 Input and output settings

1 Press and hold "▽" for "Temp" and "Fan" simultaneously for at least three seconds during the normal mode (when unit is not operated).

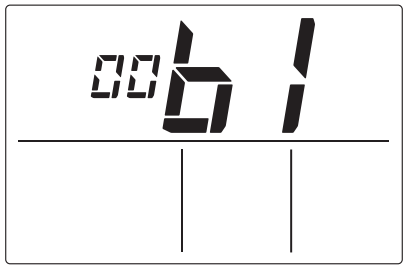
2 Select the optional mode by pressing "▽" or "△" for "Temp" and press "Fan".



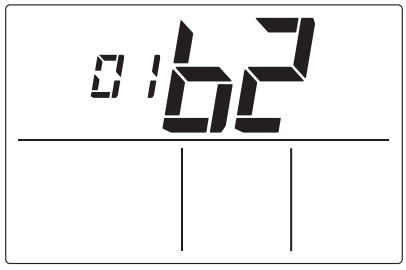
3 Select the indoor unit by pressing "▽" or "△" for "Temp" and press "Fan".
(This screen is NOT displayed when there is only one indoor unit connected with the controller.
In this case, (4) will be displayed.)



4 Press "▽" or "△" for "Temp" and select the item.



5 Press "Fan" and change the setting.



6 Press "▽" and "△" for "Temp" simultaneously to return to the normal mode.

4.2.16 Input and output settings and display codes

Indication	Input	Output
00	Not set	Not set
01	Room Thermostat (for cooling)	Operation
02	Room Thermostat (for heating)	Alarm
03	Remote ON/OFF 1 (Level)	Cooling
04	Remote ON/OFF 2 (Operation)	Thermo-ON for cooling
05	Remote ON/OFF 2 (Stoppage)	Heating
06	Forbidding remote control after manual stoppage	Thermo-ON for heating
07	Remote cooling / heating change	Total heat exchanger
09	Setback operation	

NOTE

- *After at least three minutes from power ON, change the optional setting.*
- *Do not set the elevating grille for the total heat exchanger.*
- *Record the setting conditions for each input and output in the "Setting" column of the table.*

◆ Input and output number display and connectors

Input number display	Port	Factory setting		Setting
Input/Output indication		Setting item	Indication	
Input 1	CN3 1-2	Remote ON/OFF 1 (Level)	03	
Input 2	CN3 2-3	Prohibiting Remote Control after Manual Stoppage	06	
Output 1	CN7 1-2	Operation	01	
Output 2	CN7 1-3	Alarm	02	
Output 3	CN8 1-2	Thermo-ON for Heating	06	

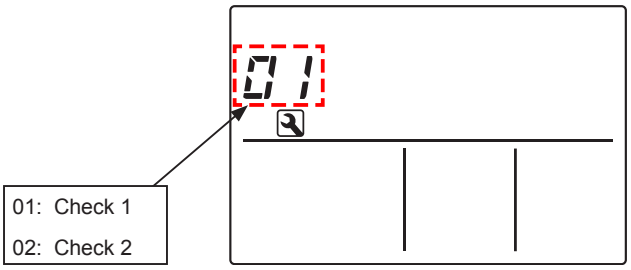
4.2.17 Check mode

Check 1: Sensor condition of the air conditioner will be monitored and indicated.

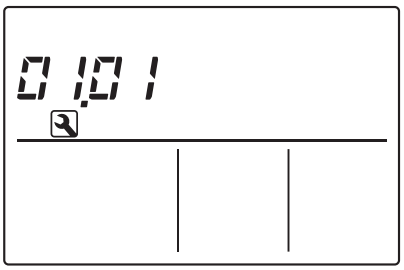
Check 2: Sensor data of the air conditioner prior to alarm occurrence will be indicated.

1 Press and hold “▽”, “△” for “Temp” and “Fan” simultaneously for at least three seconds during the normal mode.

2 Select the “Check” mode by pressing “▽” or “△” for “Temp” and press “Fan”.

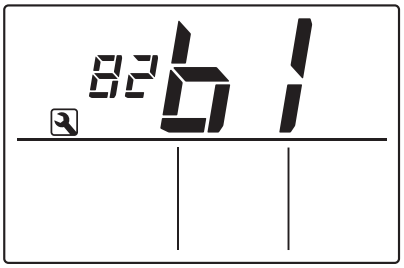


3 Select the indoor unit by pressing “▽” or “△” for “Temp” and press “Fan”.



4 Press “▽” or “△” for “Temp” and select the item.

5 Press “▽” or “△” for “Temp” simultaneously to return to the normal mode.



NOTE

The “check” items are different for each indoor unit type. Check the service manual for the indoor unit to be used for the detailed information.