

INSTALLATION AND OPERATION MANUAL

ADVANCED COLOR
WIRED REMOTE CONTROLLER

MODELS

PC-ARFG2-E(B)



Cooling & Heating

EN

The English version is the original one; other languages are translated from English. Should any discrepancy occur between the English and the translated versions, the English version shall prevail.

ES

La versión en inglés es la original, y las versiones en otros idiomas son traducciones de la inglesa. En caso de discrepancias entre la versión inglesa y las versiones traducidas, prevalecerá la versión inglesa.

DE

Die englische Fassung ist das Original, und die Fassungen in anderen Sprachen werden aus dem Englischenübersetzt. Sollten die englische und die übersetzten Fassungen voneinander abweichen, so hat die englische Fassung Vorrang.

FR

La version anglaise est la version originale; les autres langues sont traduites de l'anglais. En cas de divergence entre les versions anglaise et traduite, la version anglaise prévaudra.

IT

La versione inglese è l'originale e le versioni in altre lingue sono traduzioni dall'inglese. In caso di divergenze tra la versione inglese e quelle tradotte, fa fede la versione inglese.

PT

A versão inglesa é a original; as versões em outras línguas são traduzidas do inglês. Em caso de divergência entre a versão em língua inglesa e as versões traduzidas, faz fé a versão em língua inglesa.

DA

Den engelske udgave er originalen, og udgaverne på andre sprog er oversat fra engelsk. Hvis der forekommer uoverensstemmelser mellem den engelske og den oversatte sprogudgave, vil den engelske udgave være gældende.

NL

De Engelse versie is de originele; andere talen zijn vertaald uit het Engels. In geval van verschillen tussen de Engelse versie en de vertaalde versies, heeft de Engelse versie voorrang.

SV

Den engelska versionen är originalet, och versionerna på andra språk är från engelska översättningar. I händelse av bristande överensstämmelse mellan den engelska och den översatta versionerna, skall den engelska versionen vara giltig.

EL

Η αγγλική έκδοση είναι το πρωτότυπο και οι εκδόσεις σε άλλες γλώσσες μεταφράζονται από τα αγγλικά. Σε περίπτωση που διαπιστωθούν διαφορές μεταξύ της αγγλικής και της μεταφρασμένης έκδοσης, η αγγλική έκδοση είναι επικρατέστερη.

BG

Версията на английски език е оригиналната; версиите на останалите езици са в превод от английски език. При различие между английската версия и преводна версия на друг език за меродавна се счита английската версия.

CS

Originální verze tohoto dokumentu je v angličtině; ostatní jazykové varianty jsou z angličtiny přeložené. Pokud mezi anglickou a jakoukoli jinou jazykovou verzí dojde k rozporu, bude převažovat anglická verze.

HU

Az eredeti változat az angol; az egyéb nyelvű változatok angolról lettek fordítva. Amennyiben az angol és a fordított verziók között bármilyen eltérés mutatkozik, az angol nyelvű változat a mérvadó.

PL

Wersja angielska jest wersją oryginalną - wszystkie pozostałe stanowią jej tłumaczenie na odpowiednie języki. W przypadku stwierdzenia jakichkolwiek rozbieżności między oryginałem a jego tłumaczeniem, rozstrzygająca jest wersja w języku angielskim.

RO

Versiunea originală este cea în limba engleză; versiunile în alte limbi sunt traduse din limba engleză. Dacă există vreo discrepanță între versiunile în limba engleză și versiunea tradusă, prevalează versiunea în limba engleză.

RU

Английская версия является оригинальной; другие языки переведены с английского. В случае любого расхождения между английской и переведенной версиями, английская версия имеет преимущественную силу.

FI

Englanninkielinen versio on alkuperäinen; muut kielet on käännetty englannista. Mikäli englannin ja käännettyjen versioiden välillä ilmenee eroavaisuuksia, englanninkielinen versio on voimassa.

HR

Verzija na engleskom jeziku je prvobitna verzija, a verzije na ostalim jezicima su prevedene s engleskog. U slučaju neslaganja između verzije na engleskom jeziku i prevedenih verzija, verzija na engleskom jeziku ima prednost.

SL

Izvirna različica je v angleškem jeziku; drugi jeziki so prevedeni iz angleščine. V primeru razhajanj med angleško in prevedeno različico, prevlada angleška različica.

SK

Anglická verzia je pôvodná, ďalšie jazyky sú preložené z angličtiny. V prípade akýchkoľvek nezrovnalostí medzi anglickou a preloženou verziou, bude rozhodujúca anglická verzia.

UK

Англійська версія є оригінальною; інші мови переведені з англійської. У разі виникнення розбіжностей між англійською та перекладеною версіями, англійська версія має переважну силу.

EN	English	Original Version
ES	Español	Versión traducida
DE	Deutsch	Übersetzte Version
FR	Français	Version traduite
IT	Italiano	Versione tradotta
PT	Português	Versão traduzida
DA	Dansk	Oversat version
NL	Nederlands	Vertaalde versie
SV	Svenska	Översatt version
EL	Ελληνικά	Μεταφρασμένη έκδοση
BG	Български	Преведена версия
CS	Čeština	Přeložená verze
HU	Magyar	Lefordított változat
PL	Polski	Tłumaczenie wersji oryginalnej
RO	Română	Versiune tradusă
RU	Русский	Переведенная версия
FI	Suomi	Käännetty versio
HR	Hrvatski	Prevedena verzija
SL	Slovenščina	Prevedena različica
SK	Slovensky	Přeložená verzia
UK	Українська	Перекладена версія



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General Information

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1.1 Safety summary

Hitachi cannot anticipate every possible circumstance that might involve a potential hazard.



DANGER

- ***DO NOT pour water into the remote controller. This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.***
- ***DO NOT perform installation work and electrical wiring connection by yourself. Contact your Hitachi distributor or dealer and ask them for installation work and electrical wiring by service person.***



CAUTION

- *DO NOT install the indoor unit, outdoor unit, controller and cable at such places as;*
 - » *Where there is oil vapour and the oil is dispersed.*
 - » *Where the hot springs are near (in a sulfuric environment).*
 - » *Where generation, flowing, staying or leaking of flammable gas is detected.*
 - » *Where the sea is near (in the salty environment).*
 - » *An acid or alkaline environment.*
- *DO NOT install the indoor unit, outdoor unit, controller and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the controller is installed in a place where there is electromagnetic wave radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.*
- *In case that there is electric noise at the power source for the indoor unit, provide a noise filter.*
- *Use specified cables to connect between indoor unit and remote control switch. Selecting incorrect cables may lead to fire or electrical shock.*



NOTE

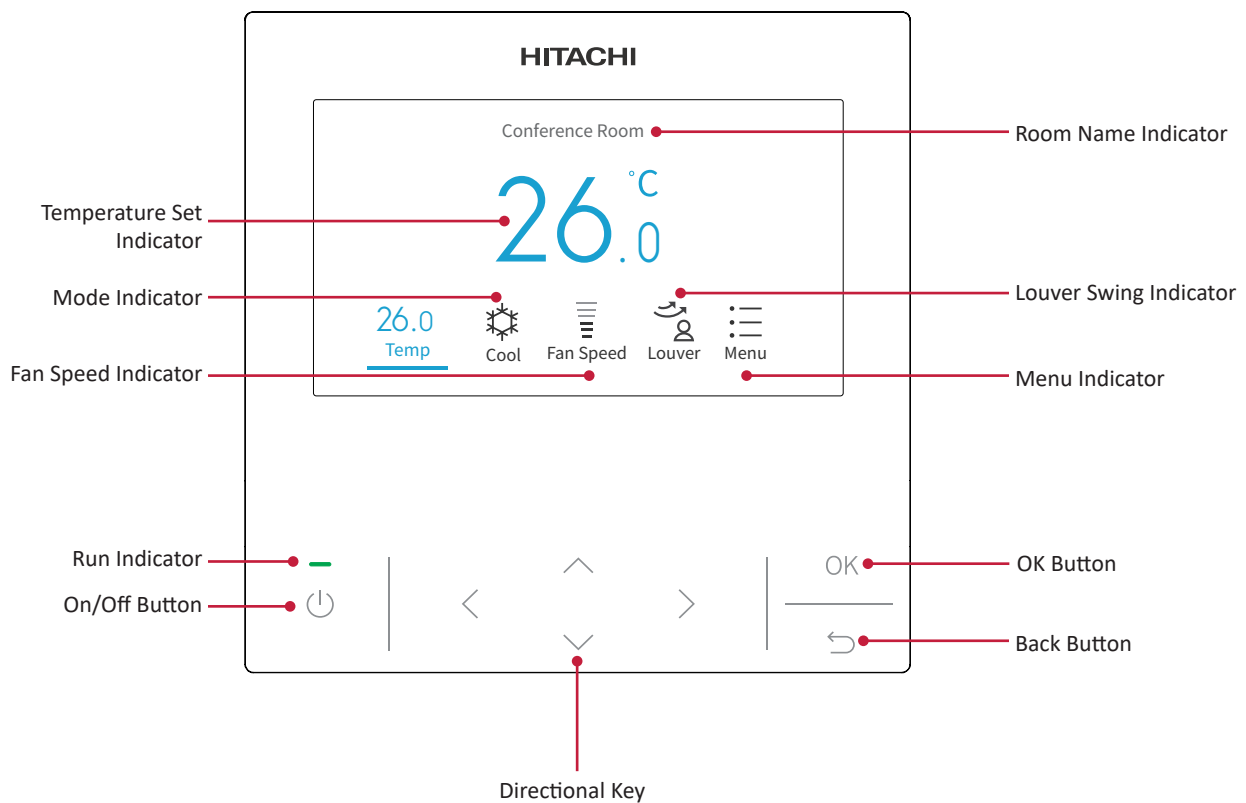
- *The installer and system specialist shall comply with local regulations or standards for the safety. The following standards may be applicable, if local regulations are not available. International Organization for Standardization, ISO5149 or European Standard, EN378 or Japan Standard, KHK50010.*
- *Perform electrical work according to the Installation Manual. As for the electrical wiring work and check, turn OFF the main power supply before opening/closing the service cover of indoor unit. If service cover is opened with main power supply left on, it may result in an electrical shock.*
- *It is assumed that this control remote will be operated and serviced by English speaking people. If this is not the case, the customer should add safety such as operating signs in the native language for non English speakers.*

- This manual should be considered as a permanent part of the air conditioning equipment and should remain with the air conditioning equipment.
- 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.
- Important: read and understand this manual before using this remote controller.

If you have any questions, contact your Hitachi distributor or dealer.

1.2 Switch Names and Functions

The figure below shows all the indications for reference. The actual display during operation is different.



NOTE

- The backlight turns off 15 seconds after the last operation. If you press any switch, the backlight is turned on. (The switch pressed to turn on the backlight is not functional).
- Make sure to press the buttons lightly with your fingertips.
- Do NOT press the buttons or anything with sharp points, such as a ball point pen. This may damage the controller.



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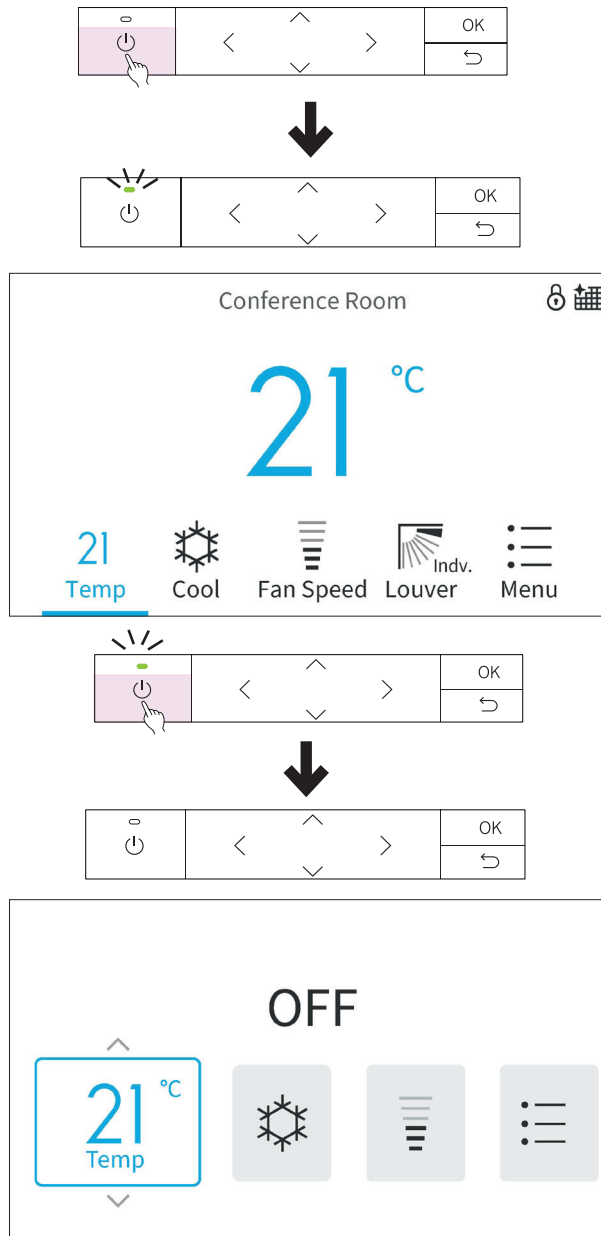
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2.1 Operation Start/stop

Press “” (run/stop). The run indicator will be turned on/off and the operation will be started or stopped accordingly.



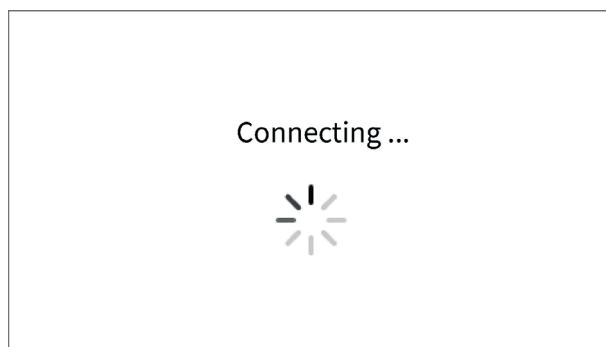
NOTE

- Once the temperature and air volume settings are entered on the wired controller, they are applied to the units. The last settings remain displayed on the controller, being not necessary to set them again.
- When heating operation stops, indoor unit(s) may keep running in Fan mode for about 2 minutes.

2.2 Basic Operation

1 Wired controller Power ON.

Wait a few seconds to get the controller connected to the indoor units or to other controller that may be connected to the same indoor unit.

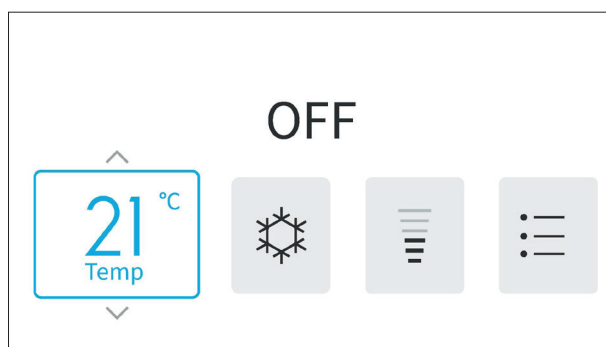


2 Air Conditioner OFF

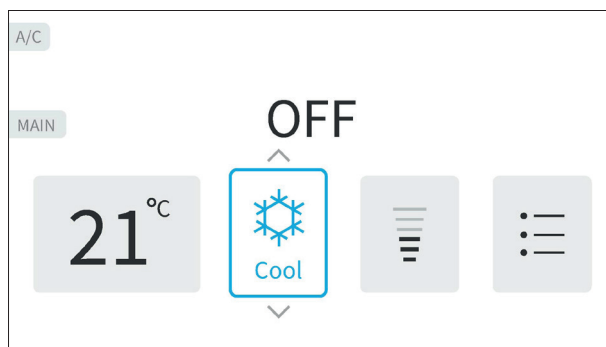
When air conditioner is off, press “<” or “>” to switch below items:

“Temperature” ↔ “Mode” ↔ “Fan Speed” ↔ “Menu”.

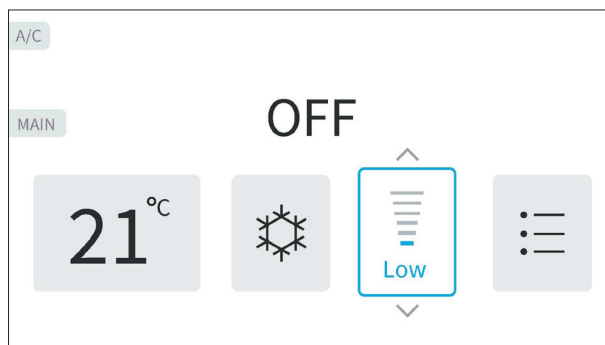
✓ Temperature



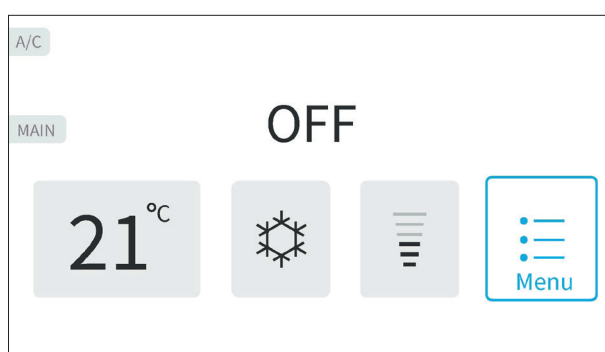
✓ Mode



✓ Fan Speed



✓ Menu

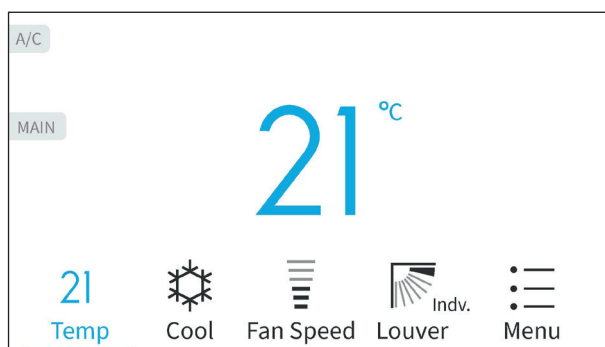


3 Air Conditioner ON

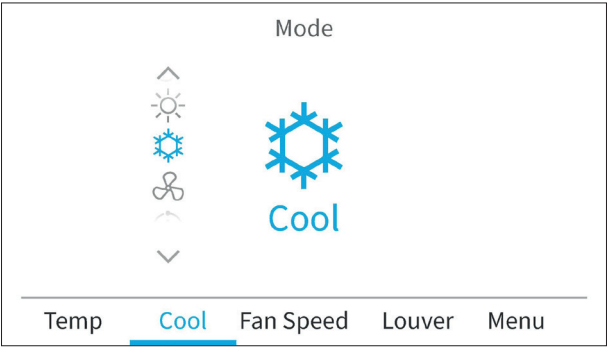
When air conditioner is on, press “<” or “>” to switch below items:

“Temperature” ↔ “Mode” ↔ “Fan Speed” ↔ “Louver” ↔ “Menu”.

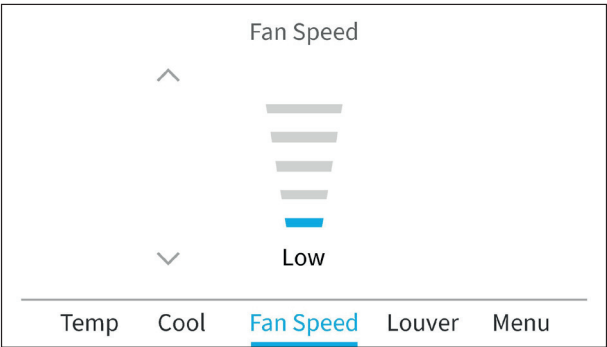
✓ Temperature



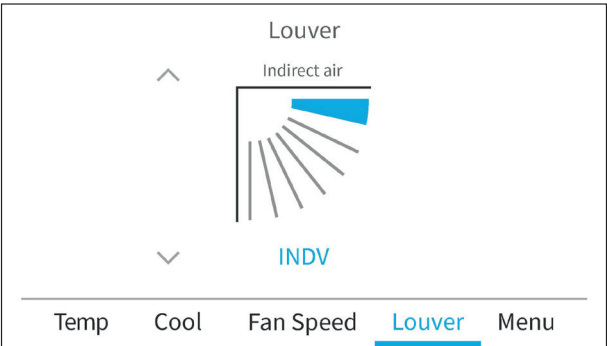
✓ Mode



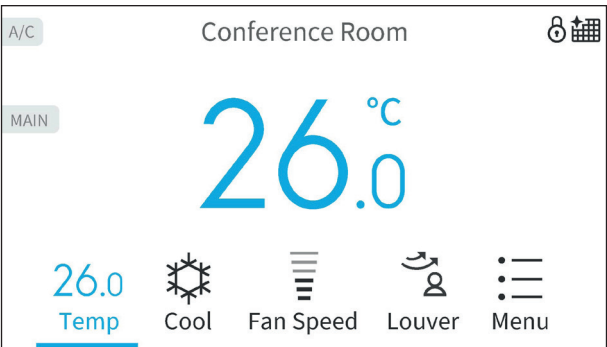
✓ Fan Speed



✓ Louver



✓ Menu

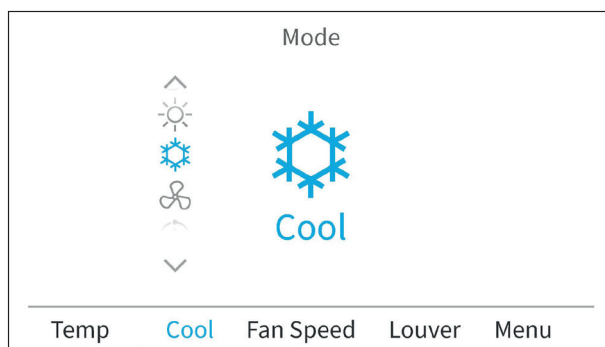


2.3 Operation Mode

Heating mode is only available when the indoor unit supports cooling and heating. Cooling only machine cannot support heating.

Operation mode setting

- 1 Press “<” or “>” to select “Mode”.



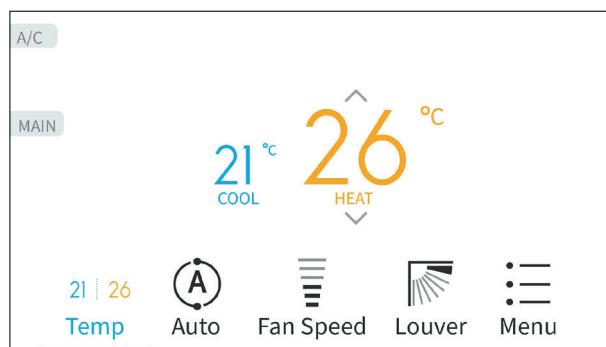
- 2 Set the operation mode with “^” or “v”. The operation mode is switched in the following order:



If dual setpoint is selected in auto mode, both cooling setpoint and heating setpoint can be selected.

With Auto Cool/Heat mode, temperature setting is by default managed as follows when operation mode changes:

- Operation mode switches from cooling mode to heating mode: Temperature setting = Heating temperature setting -1°C
- Operation mode switches from heating mode to cooling mode: Temperature setting = Cooling set temperature +1°C

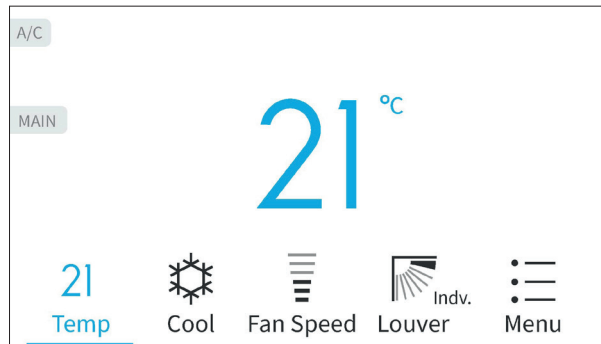


NOTE

The function selection setting is required for “Auto” operation. Contact your distributor for detailed information.

2.4 Temperature Setting

- 1 Press “<” or “>” to select “Temp”.



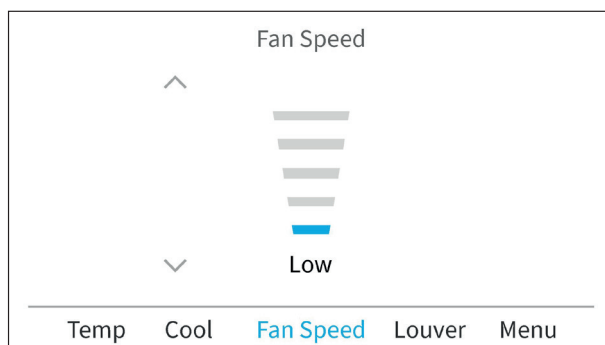
- 2 By pressing “^”, the temperature is increased by 0.5°C to a maximum of 30°C.
By pressing “v”, the temperature is decreased by 0.5°C.
- 3 Cooling, Dry, Fan operation: a minimum of 19°C.
- 4 Heating operation: a minimum of 17°C.

NOTE

- Depending on the type and setting of the indoor unit, it may not be possible to set the temperature by 1°F (0.5°C).
- The maximum/ minimum temperature may differ depending on the type of indoor unit.
- Minimum and maximum temperature set-point limits can be configured by selecting a cooling lower limit and heating upper limit in the “Function Selection” mode.
- When the “Automatic Reset of Setting Temperature” function is selected, the temperature is automatically returned to the preset temperature after the temperature set-point change.
- Contact your distributor for detailed information about “Automatic Reset of Setting Temperature” and “Cooling Lower Limit Value and Heating Upper Limit Value for Setting Temperature” functions.

2.5 Fan Speed

1 Press “<” or “>” to select “Fan Speed”.



2 By pressing “^” or “v”, the fan speed changes as follows.

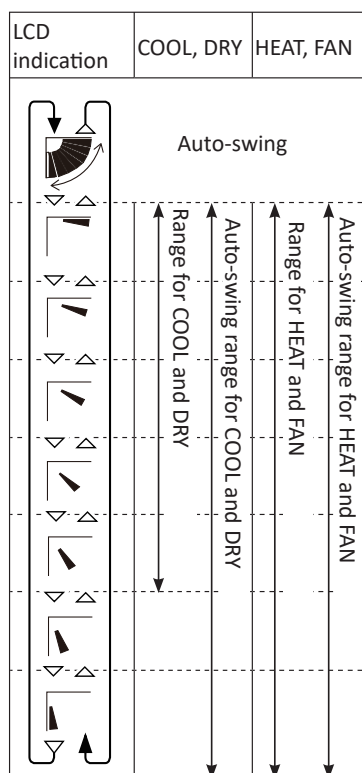


NOTE

- During dry operation, the fan speed is automatically changed to “LOW” and cannot be changed to another fan speed. (“LOW” is NOT displayed on the liquid crystal display (LCD) at this time. The present setting status is displayed on the LCD).
- Some of the fan speed settings as “High2” or “Auto” may not be available depending on the indoor unit type

2.6 LOUVER swing Direction

- 1 Press “” (On/Off). Make sure that the power is ON. Press “” or “” and select “Louver”.
- 2 By pressing “” or “”, the louver direction changes as below diagram , and the direction of different types of louver is displayed differently.



 : Auto swing operation will be started. At this time, the louver icon on the LCD will keep swinging repeatedly.

NOTE

- For the indoor unit without the auto louver mechanism, the indication of “Louver” is NOT displayed on the LCD.
- The air flow angle is different for each indoor unit type. Check for detailed information in each Operation Manual for indoor unit.
- The louver position on the LCD and the actual louver position may not match during the Auto-Swing. To set the louver positions, set the angle after checking the position on the LCD.
- The louver may NOT stop immediately after the switch is pressed.

2.7 Icon Description

The status of the remote controller is displayed on the operation screen.

NOTE

- It may not be displayed depending on the type of outdoor unit or indoor unit you are using.
- If there are multiple status, the high priority icon is displayed first.

No.	Icon	Description
1		A schedule timer is set.
2		Set the current time. Schedule timer operation is not possible.
3		The off timer is set.
4		The operation lock is set.
5		Displayed when using the central controller. Remote control operation is restricted.
6		It is time to freeze-clean the heat exchanger.
7		It is time to clean the air filter.
8	A/C	Air-conditioning operation is performed.
9	Ventilation Total heat ventilation Automatic ventilation Normal ventilation	Ventilation, automatic ventilation, total heat ventilation, and normal ventilation are operating.
10	 ** °C	Displays the room temperature. (*1)
11	SAG	Elevating grille is not stored correctly.
12	Emergency operation	Emergency operation is in progress.
13	Setback	When setback operation is enabled and the card key is removed (when no one is present). (*2)
14	Purging	In night purge progress.
15	Setback aborted	Setback is aborted.
16	Motion sensor ON	Indicates capacity savings by motion sensor control during operation or stop.
17	Radiant sensor	In order to efficiently heat the room when the radiant temperature is low, the air flow direction and speed are automatically controlled.
18	Cold draft restrained	To prevent a too low air outlet temperature from indoor unit.
19	Noise reduction	The operation noise reduction control of the outdoor unit is set.
20	FrostWash is complete	Indicates the FrostWash is performed.

No.	Icon	Description
21	Indoor unit temperature over range, FrostWash stopped	If the indoor temperature is out of the range of 15°C to 30°C, no FrostWash is performed and the cancellation is displayed.
22	Outdoor unit temperature over range, FrostWash stopped	If the outdoor temperature is out of the range of 1°C to 43°C, no FrostWash is performed and the cancellation is displayed.
23	Power savings Power savings: Low Power Savings: Med Power savings: High	Either the outdoor capacity control, indoor rotation control, or intermittent operation control is set.
24	External saving	Outdoor capacity control is set on the central controller or outdoor unit. It does not light when the indoor rotation control or intermittent operation control of the remote controller is set.
25	Main	This is the main remote controller setting. Use the main remote controller to set the main power savings setting. In the case of a single unit, this information is not displayed.
26	Sub	Sub remote controller is set. Except for some power savings functions, the sub remote controller cannot be set to save power.
27	! Sub	There is no main remote controller. Controls related to power savings and operation noise reduction may not operate normally.
28	Quick	The operation is in quick mode.
29	Other remote are in Cool/Heat setting	When the operation mode set from the remote controller and the operation mode of the outdoor unit is different, the indicator blinks. Indicator blinks when "cooling" is set from the remote controller and when the operation mode of the outdoor unit is "heating".
30	Emergency Heating → Alarm Code: **	Emergency Heating Control is in progress. ** indicates the alarm code.
31	✧ Automatic cleaning unit ✧ Mechanic error ✧ Check the unit	Indicates an error related to the automatic filter cleaning unit.
32	✧ Cleaning filter	The filter is being automatically cleaned.
33	Check	Indicates an abnormality in the heat storage unit.
34	Preheating	The compressor cannot be operated because it is preheating.
35	Hot start	Preparing for heating operation.
36	Defrost	During the defrosting operation, the defrosting light turns on and the indoor fan stops. When the operation is stopped during the defrosting operation, the operation light or the run indicator goes out, but the operation continues and stops after the defrosting is completed.
37	Heat storage	It cannot be operated due to the heat storage operation time.
38	Dust collection **_**	It is time to collect dust in the dust box of the automatic filter cleaning unit. **_** indicates the unit to be collected.
39	Central control	Displayed when using the central controller. Remote controller operation is restricted.

No.	Icon	Description
40	Time to OFF (hour)	The remaining time of the off timer when the hotel mode is displayed.
41	Priority	Displayed on the main remote controller only in the operation mode or when there is a setting priority for the operation mode and the set temperature. At this time, the operation limit lights up on the sub remote controller, and the operation mode and temperature setting change on the sub remote controller are restricted.
42	Restriction	Displayed on the sub remote controller only when the operation mode or the operation mode and set temperature setting priority is given.

NOTE

- (*1): It depends on the settings of the remote controller.
- (*2): The default setting is cooling: set temperature +2.5°C, heating: set temperature -2.5°C.
- If you want to change the correction value for this setback operation, please contact the distributor for more detailed information.

Function Menu

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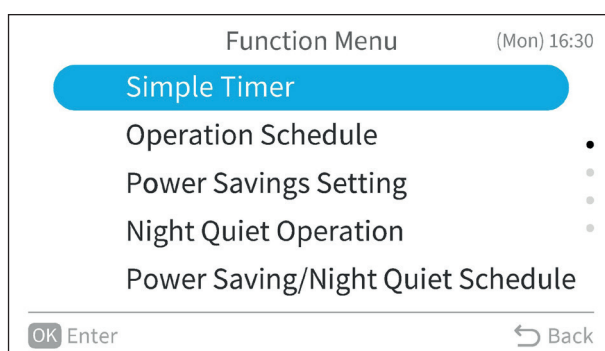
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NOTE

- Some functions cannot be set depending on the type, configuration, and usage status of the indoor unit.
- If a function with "⊘" is displayed, it means the function is not supported and the setting is disabled.

Display the function menu

- 1 Select the "Function Menu" and press "OK". The "Function Menu" screen is displayed.
- 2 Press "▲" or "▼" to select the item to set and press "OK". Press "↶" to return to the "Menu" screen.



If the "Menu screen" remains unchanged for approximately 10 minutes, the screen returns to the home screen.

Various settings are retained even when the power is turned off.

3.1 Simple Timer Setting

This function is used to start or stop the unit operation at the set time.

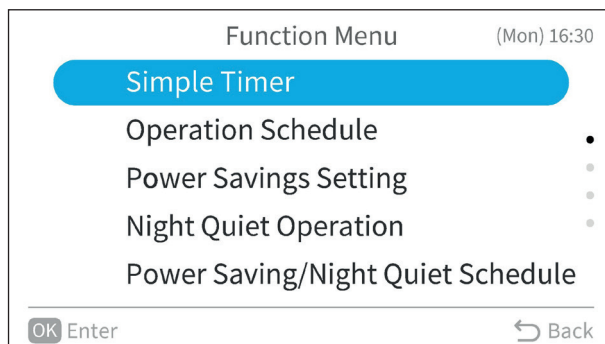
The timer operation contents can be set from "Not Used", "Once" or "Everyday".

NOTE

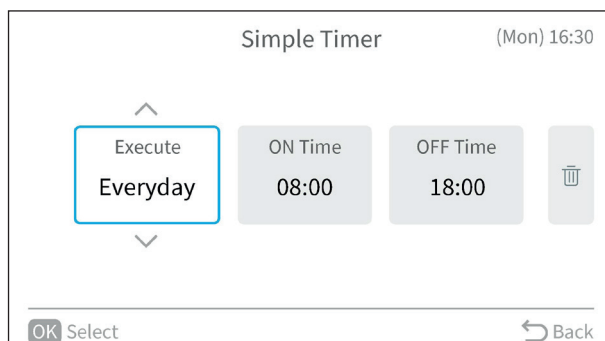
- If "Once" on the timer operation setting is selected, the setting content changes automatically to "Not Used" after one timer operation.
- Do not set the same time for both ON/OFF timers.
- Scheduled operation (stop) is not possible while the remote control is prohibited.
- When  is displayed, scheduled operation (stop) is not available.
- Refer to "5.1 Adjusting date / time" to set the date and time.

Set the simple timer

- 1 Select "Simple Timer" on the "Function Menu" screen and press "OK".
When the current time has not been set yet, the "Adjusting Date/Time" setting screen is displayed.

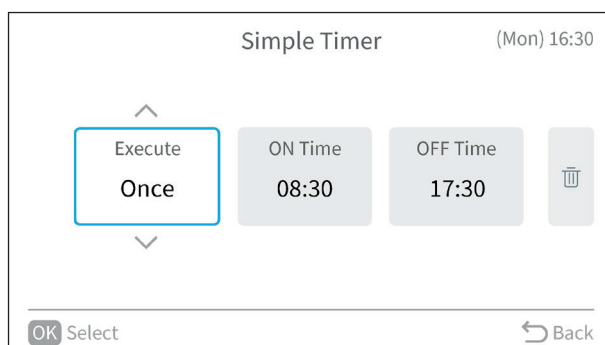


- 2 Press "<" or ">" to select the setting item:
"Execute" ↔ "ON Time" ↔ "OFF Time" ↔ .



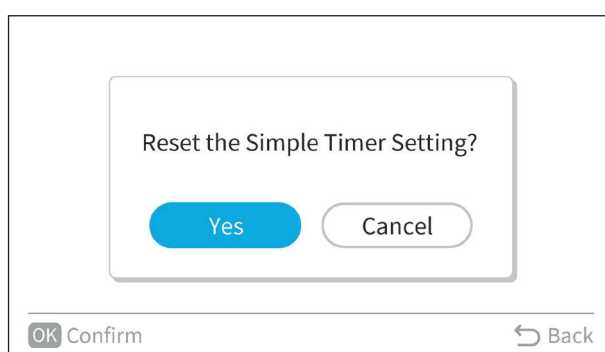
- 3 Press "^" or "v" to set each setting data for the selected items.
After setting, press "↵" to confirm the settings and the screen returns to the "Function Menu" screen.

- When "Execute" is selected, press "∧" or "∨" to switch the setting items as follows: "Not Used" ↔ "Once" ↔ "Everyday".



- When "ON Time" or "OFF Time" is selected, the setting time can be adjusted in 30-minute increments by pressing "∧" or "∨". If you press and hold "∧" or "∨", the number will increase or decrease continuously.
- When "⏏" is selected, if you select "OK", the confirmation screen is displayed. Select "Yes" and press "OK" to reset the "Simple Timer" setting and the screen returns to Step2.

If you select "Cancel", the screen still returns to Step2.

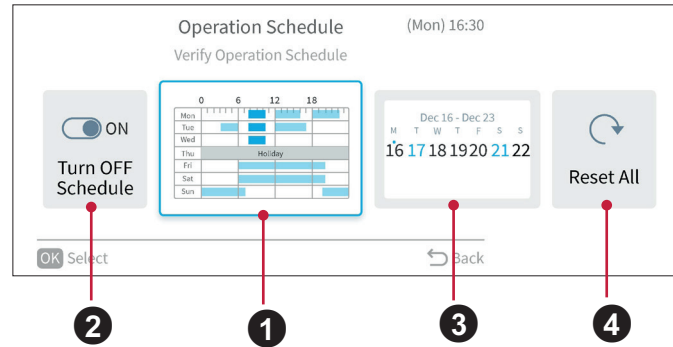


3.2 Operation Schedule Setting

This function is used to start or stop the unit operation at the set time.

The temperature can be set during operation.

The operation schedule can be set up to 5 times a day on each day of the week.



① Schedule day and time setting *"3.2.1 Schedule Day and Time Setting"*

- The desired time and temperature can be set.
- Up to 5 schedules per day can be set.

② Schedule turn ON / OFF setting *"3.2.2 Schedule Turn ON/OFF Setting"*

- This function temporarily prevents the schedule from running.
- Schedule operation is not performed while the schedule is disabled.
- This setting is normally applied during long vacation.

③ Schedule holiday setting *"3.2.3 Schedule Holiday Setting"*

- Holidays can be set one week in advance.
- On the days set as holidays, scheduled operation is not performed for only one day.
- It is used when there are irregular off days such as holidays.

④ Reset setting *"3.2.4 Reset the setting"*

- The schedule day / time setting and holiday setting are deleted.

3.2.1 Schedule Day and Time Setting

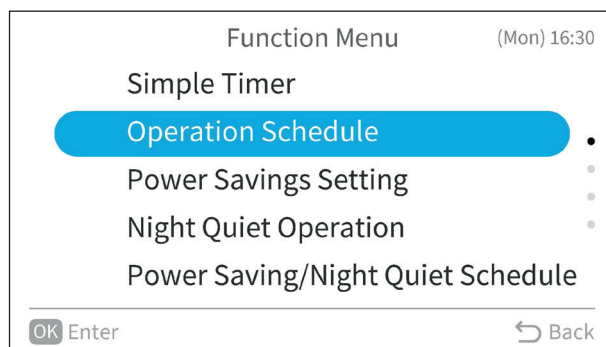


NOTE

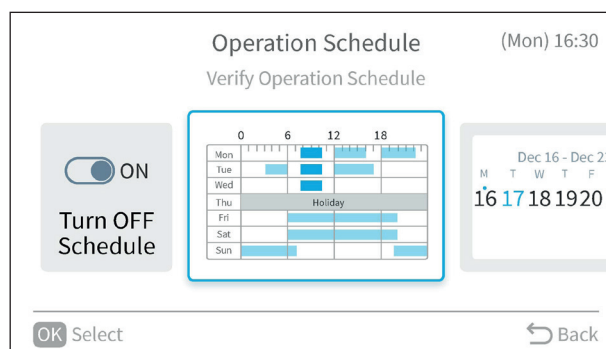
- Scheduled operation (stop) is not possible when the remote control is prohibited.
- When  is displayed, scheduled operation (stop) is not available.
- Refer to *"5.1 Adjusting date / time"* to set the date and time.

Set schedule day and time

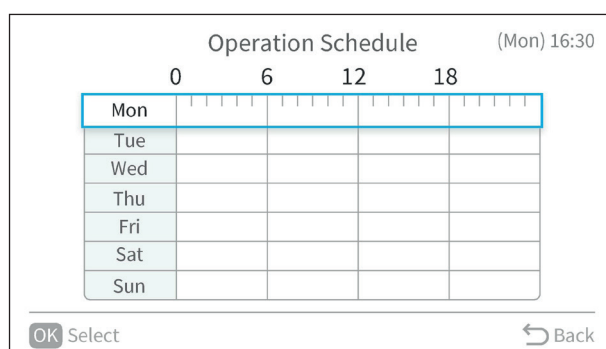
- 1 Select "Operation Schedule" on the "Function Menu" screen and press "OK".
 - If the current time is not set, the "Adjusting Date/Time" setting screen is displayed.
 - If no schedule or holiday has been set, Step3 is displayed.



- 2 Press "<" or ">" to select "Verify Operation Schedule", and then press "OK".



- 3 Select the day of the week (from Mon. to Sun.) to be set with "^" or "v", and press "OK".
 - ■ (run) and □ (stop) is displayed on the LCD.
 - To copy the setting contents of the previous day, press "<" and "OK" simultaneously.



- 4 Press "^" or "v" to select schedule timer No.1 to No.5, and press "<" or ">" to select "ON Time" ↔ "OFF Time" ↔ "Set Temperature" ↔ "□". By pressing "^" or "v", "ON / OFF Time" and "Set Temperature" can be set.
 - Press and hold "^" or "v" to increase or decrease easily.
 - 5 different schedule timers (maximum) can be set for each day of the week.
 - Press "OK" to display the schedule time setting screen for the next day of the week.

- Select “” and press “OK” to delete the settings of “ON / OFF Time” and “Set Temp”.
- Press “” to return to Step 3.

Monday Schedule (Mon) 16:30			
	ON Time	OFF Time	Set Temp.
1	AM08:00	~ AM10:00	26.0 °C 
2	AM12:00	~ PM06:00	26.0 °C 
3	PM06:00	~ PM10:00	26.0 °C 
4	--:--	~ --:--	-- °C 
5	--:--	~ --:--	-- °C 

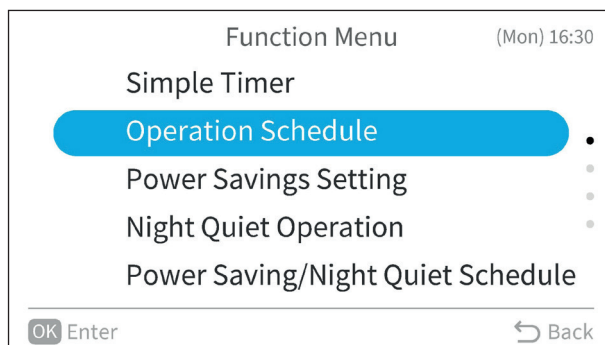
Press Up and Down to adjust  Back



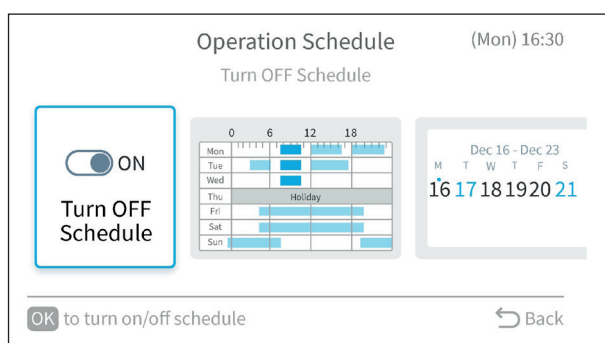
The icon displayed indicates that the schedule control is set and activated.

3.2.2 Schedule Turn ON/OFF Setting

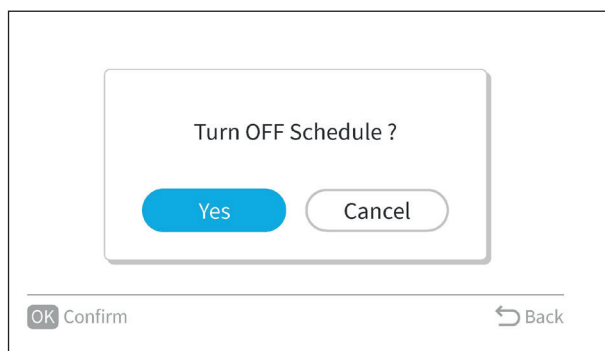
- 1 Select "Operation Schedule" on the "Function Menu" screen and press "OK".
 - If the current time is not set, the "Adjusting Date/Time" setting screen is displayed.
 - If no schedule or holiday has been set, Step3 is displayed.



- 2 Press "<" or ">" to select "Turn ON/OFF Schedule", and then press "OK".
 - When the schedule is ON, "Turn OFF Schedule" confirmation screen is displayed. When schedule is OFF, "Turn ON Schedule" confirmation screen is displayed.



- 3 Select "Yes" by pressing "<" or ">" and then press "OK".
 - ✓ Confirm the schedule enable/disable setting and return to Step 2.
 - ✓ The display  turns on when the schedule is ON.
 - ✓ The display  turns off when the schedule is OFF.

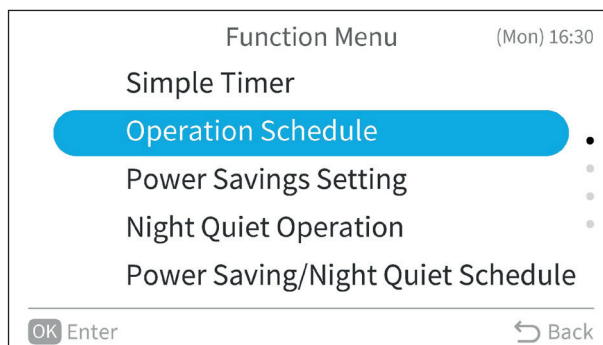


3.2.3 Schedule Holiday Setting

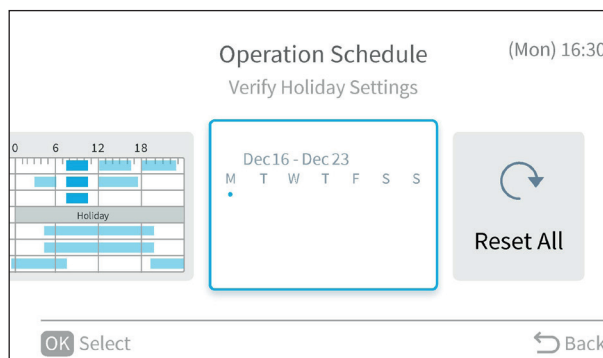
NOTE

For holiday setting, the schedule setting indicator  turns off.

- Select "Operation Schedule" on the "Function Menu" screen and press "OK".
 - If the current time is not set, the "Adjusting Date/Time" setting screen is displayed.
 - If no schedule or holiday has been set, Step3 is displayed.

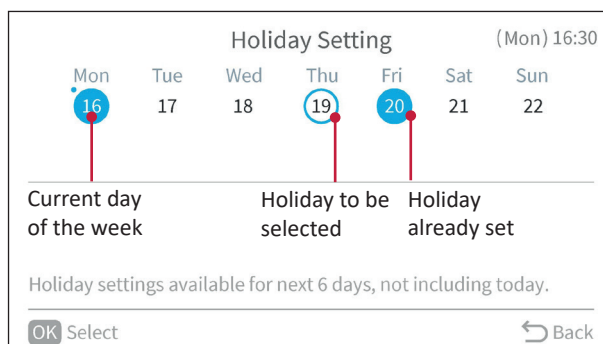


- Press "<" or ">" to select "Verify Holiday Settings", and then press "OK".



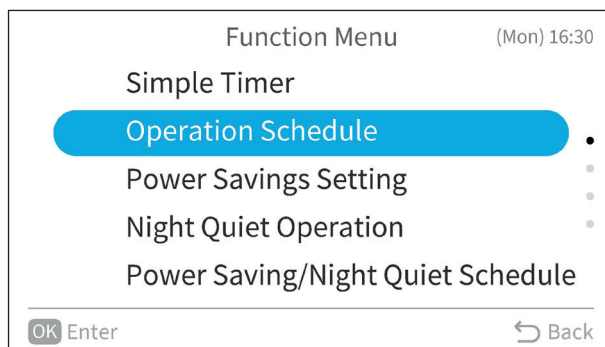
- Select the day of the week (from Mon. to Sun.) to set as a holiday by pressing "^" "v" "<" or ">". Press "OK" to select "Holiday setting" or "Cancel".
 - "●" indicates the current day of the week.
 - "○" indicates the holiday to be selected.
 - "●" indicates the holiday already set.

Press "↵" to confirm the setting and return to Step 2.

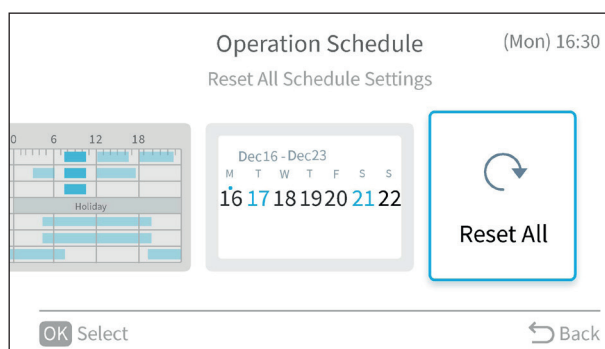


3.2.4 Reset the setting

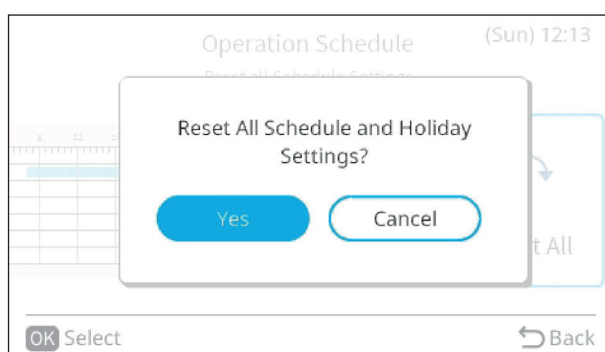
- 1 Select "Operation Schedule" on the "Function Menu" screen and press "OK".
 - If the current time is not set, the "Adjusting Date/Time" setting screen is displayed.
 - This menu to reset the schedules is available only if some settings have been done.



- 2 Press "<" or ">" to select "Reset All" and then press "OK".



- 3 Select "Yes" by pressing "<" or ">" and then press "OK".
All schedule and holiday settings are reset and the screen returns to the Step 3 of "3.2.1 Schedule Day and Time Setting".



3.3 Power Savings Setting

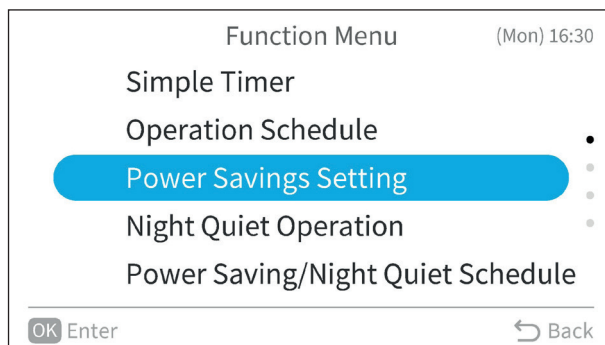
No.	Item	Description
①	Capacity Control	Limits the heating and cooling capacity of the outdoor unit in order to reduce the running current of the system to match with the capacity control setting. Set control mode and power savings level with its corresponding value.
②	Rotation Control	Interlock with indoor units of the same outdoor unit system and switch to FAN operation in sequence. Set control mode and fan mode time.
③	Intermittent Control	Cooling/heating mode and fan mode are repeated at regular intervals. Set power savings level.
④	No Setting	Power savings operation is not performed.

NOTE

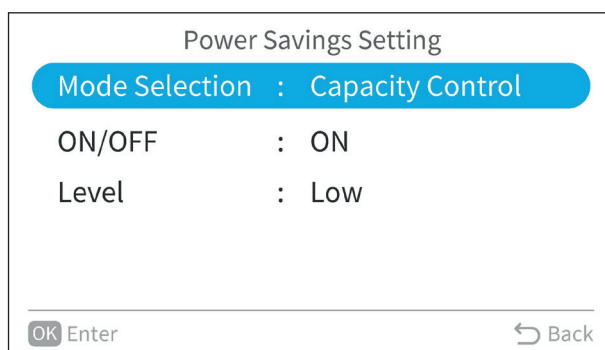
- For detailed capacity control settings information refer to “4.2.4 Power Saving Details Setting” in this manual.
- The power savings mode that can be switched differs depending on the type of the outdoor unit or indoor unit.
- The power savings modes that can be switched according to the "Main / Sub" display are as follows.
 - » Main — the power savings mode can be switched from ① to ④.
 - » Sub — the power savings mode cannot be switched. The power savings mode of the sub synchronizes with that of the main remote controller of the same outdoor unit system.
- When the power savings mode is "Indoor rotation control", the power savings level cannot be changed.
- When the power savings mode is "No Setting", the power savings ON / OFF and power savings level cannot be changed.
- When the power savings mode is "Outdoor capacity control" and sub, the power savings ON / OFF and power savings level cannot be changed.
- When the power savings mode is switched, power savings ON / OFF is set to OFF.
- When using the power savings function, the cooling and heating capacity may decrease.
- Detailed settings can be changed from the power saving details setting.

3.3.1 Power Savings Mode Setting

- 1 Select "Power Savings Setting" on the "Function Menu" screen and press "OK".



- 2 Press "▲" or "▼" to select the "Mode Selection" and press "OK".

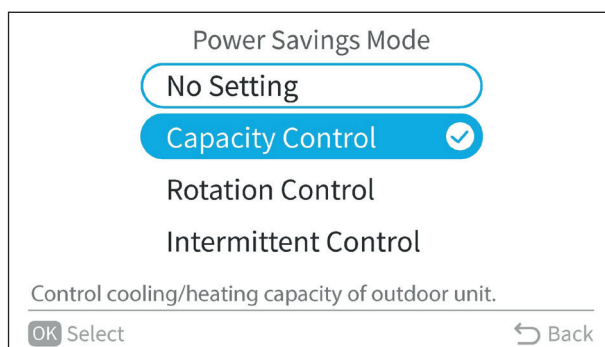


- 3 Press "▲" or "▼", the item changes as follows:

"No Setting" ↔ "Capacity Control" ↔ "Rotation Control" ↔ "Intermittent Control".

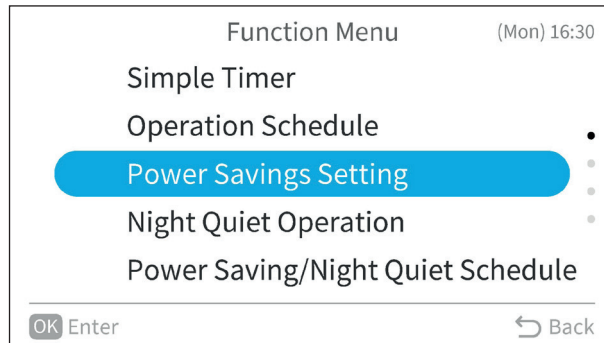
Select the power savings mode and press "OK" to confirm the setting.

Press "↵", the screen returns to the "Power Savings Setting" screen.

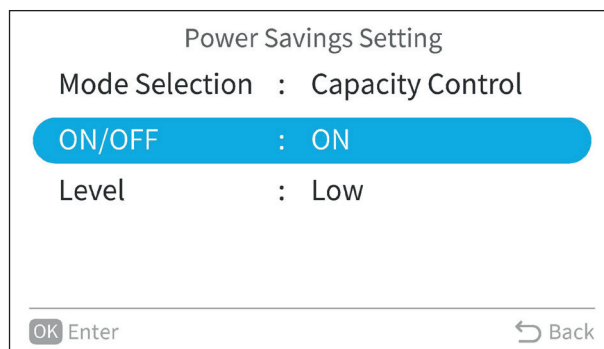


3.3.2 Power Savings ON/OFF Setting

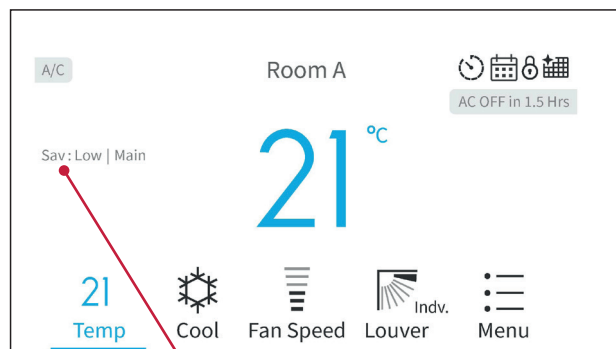
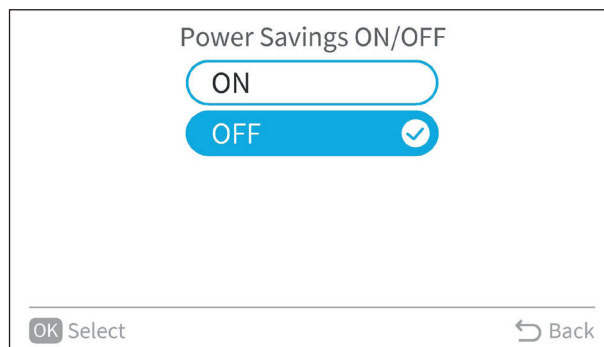
- 1 Select "Power Savings Setting" on the "Function Menu" screen and press "OK".



- 2 Press "▲" or "▼" to select the "ON/OFF" and press "OK".



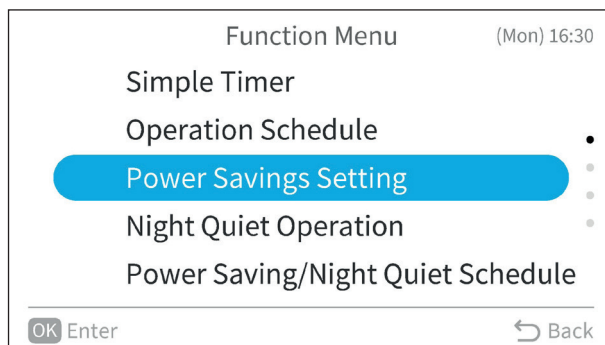
- 3 Press "▲" or "▼" to select the "ON" and press "OK".
Press "⏮", the screen returns to the "Power Savings Setting" screen.



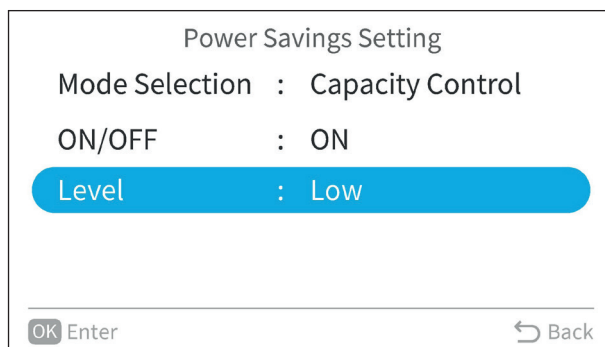
When power savings is ON, power savings level is displayed to indicate the power savings setting.

3.3.3 Power Savings Level Setting

- 1 Select "Power Savings Setting" on the "Function Menu" screen and press "OK".



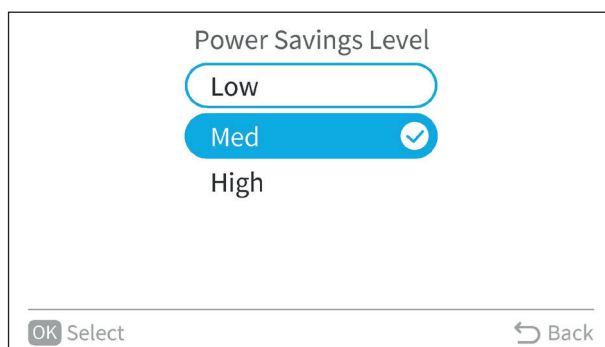
- 2 Press "▲" or "▼" to select the "Level" and press "OK".



- 3 Press "▲" or "▼", the power savings level changes as follows: "LOW" ↔ "MED" ↔ "HIGH". Select the level and press "OK".

Press "⏮", the screen returns to the "Power Savings Setting" screen.

You may not be able to select from the settings in the power saving details setting.



3.4 Night Quiet Operation

This function restricts the operation noise of the outdoor unit.

NOTE

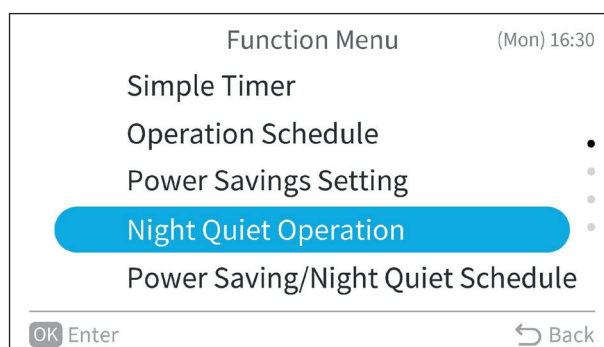
- This cannot be set if the sub remote controller or outdoor unit does not support power savings.
- It is possible to change the operation noise reduction function setting of the outdoor unit by making the following operation noise reduction settings.

Remote Controller Setting	Outdoor Unit Setting Name
Not Set	No Setting
Low	Setting 1
Med	Setting 2
High	Setting 3

» For the amount of reduction, please contact related local distributor.

- When using the operation noise reduction setting, the cooling / heating capacity can be decreased.

- 1 Select "Night Quiet Operation" on the "Function Menu" screen and press "OK".



- 2 Press "▲" or "▼", the level changes as follows:

"Not Set" ↔ "LOW" ↔ "MED" ↔ "HIGH".

Select the level and press "OK".

Press "↶", the screen returns to the "Function Menu" screen.

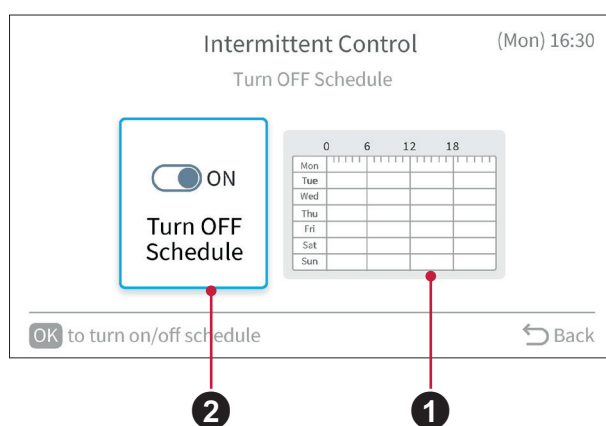


3.5 Power Saving/Night Quiet Schedule Setting

This function starts and stops power savings control and operation noise reduction control at the desired time.

Power saving/night quiet schedule settings can be set up to five times a day on each day of the week.

The power savings schedule controls the schedule set in the power savings mode setting.



1 Schedule day and time setting *“3.5.1 Schedule Day and Time Setting”*

To set the desired time and level.

To set up five times a day on each day.

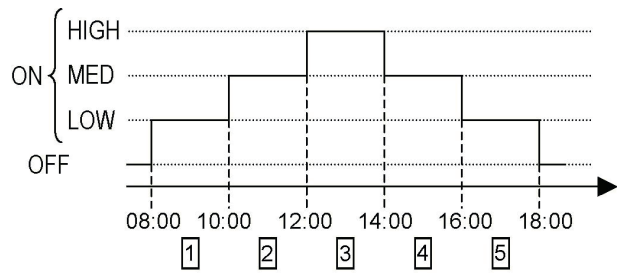
2 Schedule turn ON / OFF setting *“3.5.2 Schedule Turn ON/OFF Setting”*

Schedule operation is not performed while the schedule is disabled. This is a function that temporarily prevents the schedule from running. It is used when there is a long vacation.

i NOTE

- When managing multiple patterns of schedules on the same day as in following examples, don't set overlapped times zone.
- If the schedule times zones overlap as in example 2, the schedule will be cancelled at the first off time (14:00 in the case of the example 2).

Example of power saving operation and schedule setting



Example of power saving and night quiet schedule operation

Example 1

Monday Schedule				(Mon) 16:30
	ON Time		OFF Time	Level
1	08:00	~	10:00	LOW
2	10:00	~	12:00	MED
3	12:00	~	14:00	HIGH
4	14:00	~	16:00	MED
5	16:00	~	18:00	LOW

Press Up and Down to adjust

Back

Example 2

Monday Schedule				(Mon) 16:30
	ON Time		OFF Time	Noise Reduction level
1	08:00	~	18:00	LOW
2	10:00	~	16:00	MED
3	12:00	~	14:00	HIGH
4	--:--	~	--:--	
5	--:--	~	--:--	

Press Up and Down to adjust

Back

3.5.1 Schedule Day and Time Setting

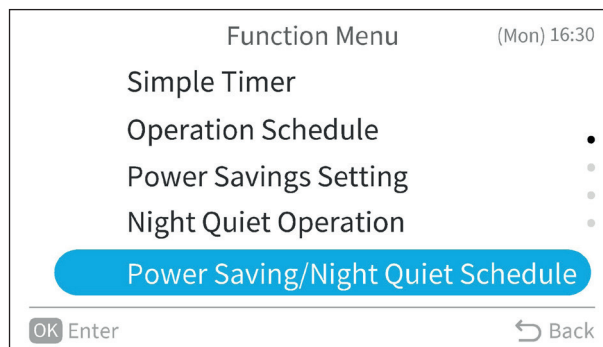


NOTE

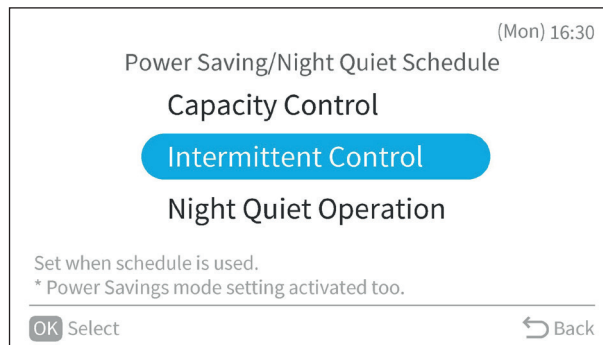
indicates that schedule control is not possible. Refer to "5.1 Adjusting date / time" to set the date and time.

Set the schedule day and time

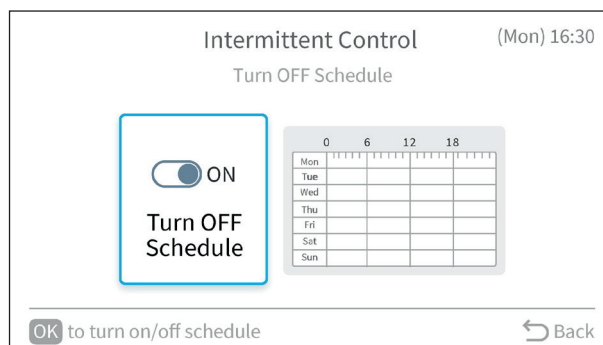
- 1 Select "Power Saving/Night Quiet Schedule" on the "Function Menu" screen and press "OK".
 - If the sub remote controller or indoor unit does not support power savings, the power saving schedule setting screen for intermittent control (Step3) is displayed.



- 2 Press "▲" or "▼" to select the setting items, and then press "OK". The items are changed as follows: "Capacity Control" ↔ "Intermittent" ↔ "Night Quiet Operation".
 - If the current time is not set, the "Adjusting Date/Time" setting screen is displayed.
 - If no schedule or holiday has been set, Step4 is displayed.

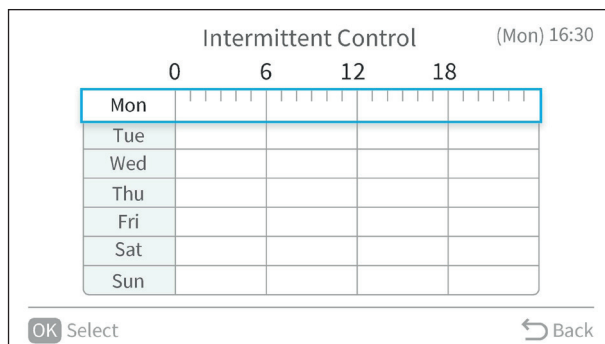


- 3 Press "◀" or "▶" to select the schedule day and time settings, and then press "OK".



4 Select the day of the week (from Mon. to Sun.) to be set with “^” or “v”, and press “OK”.

- ■ (run) and □ (stop) is displayed on the LCD.
- To copy the setting contents of the previous day, press “<” and “OK” simultaneously.

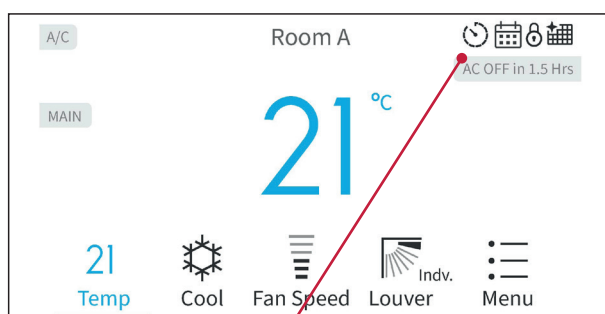


5 Press “^” or “v” to select schedule timer No. 1 to No.5, and press “<” or “>” to select “ON Time” ↔ “OFF Time” ↔ “Noise Reduction” ↔ “□”. By pressing “^” or “v”, “ON / OFF Time” and “Noise Reduction” can be set.

	ON Time	OFF Time	Level	
1	08:00 ~	10:00	LOW	□
2	10:00 ~	12:00	MED	□
3	12:00 ~	14:00	HIGH	□
4	14:00 ~	16:00	MED	□
5	16:00 ~	18:00	LOW	□

Press Up and Down to adjust

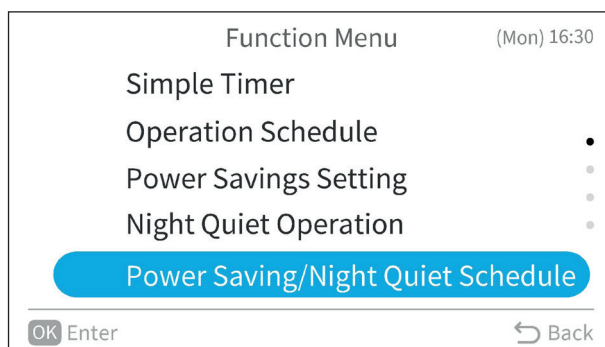
- Press and hold “^” or “v” to increase or decrease continuously.
- Five different schedule timers (maximum) can be set for each day of the week.
- Press “OK” to display the schedule time setting screen for the next day of the week.
- Select “□” and press “OK” to delete the setting of “ON / OFF Time” and “Noise Reduction”.
- Press “>” to return to Step4.



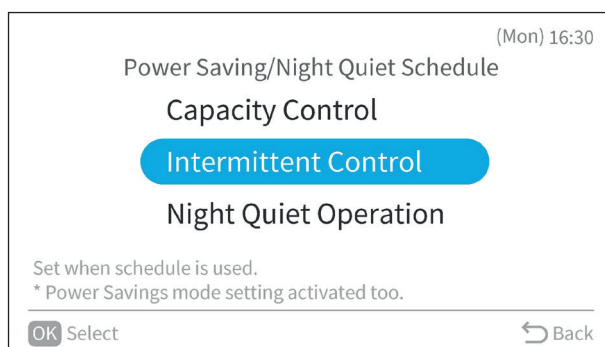
Indicates that schedule control is in operation.

3.5.2 Schedule Turn ON/OFF Setting

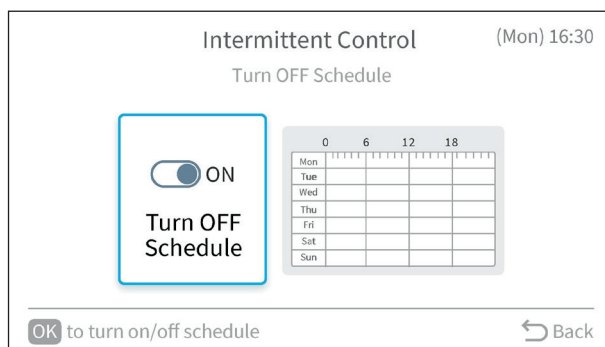
- 1 Select "Power Saving/Night Quiet Schedule" on the "Function Menu" screen and press "OK".
 - If the sub remote controller or indoor unit does not support power savings, the power saving schedule setting screen for intermittent operation control (Step3) is displayed.



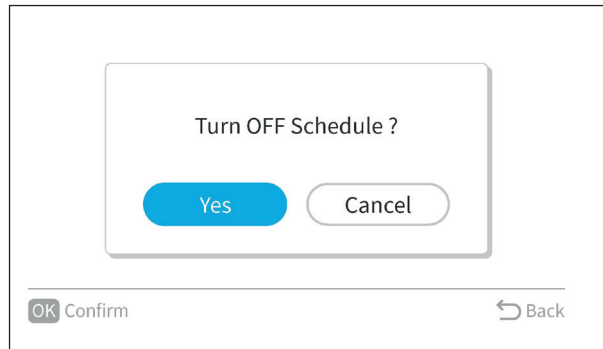
- 2 Press "▲" or "▼" to select the setting items, and then press "OK", the items are changed as follows:
 "Capacity Control" ↔ "Intermittent Control" ↔ "Night Quiet Operation".
 - If the current time is not set, the "Adjusting Date/Time" setting screen is displayed.
 - If no schedule or holiday has been set, Step4 of "3.5.1 Schedule Day and Time Setting" is displayed.



- 3 Press "◀" or "▶" to select "Turn ON/OFF Schedule, and then press "OK".
 - When the schedule is ON, "Turn OFF Schedule" confirmation screen is displayed. When schedule is OFF, "Turn ON Schedule" confirmation screen is displayed.



- 4 Press "▲" or "▼" to select "Yes" and then Press "OK".
Confirm the schedule ON/OFF, and the screen returns to Step3.



3.6 Power Consumption Display

This function displays the power consumption of the outdoor unit compressor.

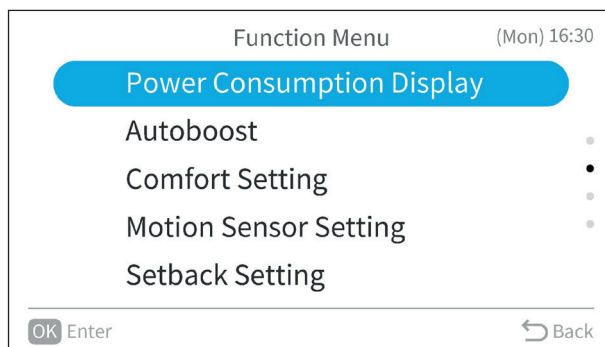
The value of each displayed in Graph/List format is 1 day (24h (- every 2 hrs.)), 1 week (7 days), and 1 year (12 months).

NOTE

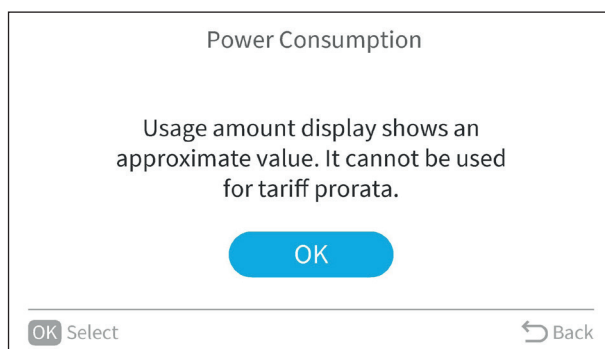
- The numerical value is a reference. Do not use this unit for the following: calculation of power rates, examination of the power contract, or calculation of greenhouse gas emissions.
- This cannot be set if the power savings function is not supported.
- In following instances, the calculated value may be a deficit or may be changed.
 - » Power Failure (outdoor unit, indoor unit, wired controller)
 - » Communication Failure (outdoor unit ↔ indoor unit ↔ wired controller)
 - » Modification of time
-  indicates that schedule control is not possible. Refer to “5.1 Adjusting date / time” to set the date and time.

Set power consumption display

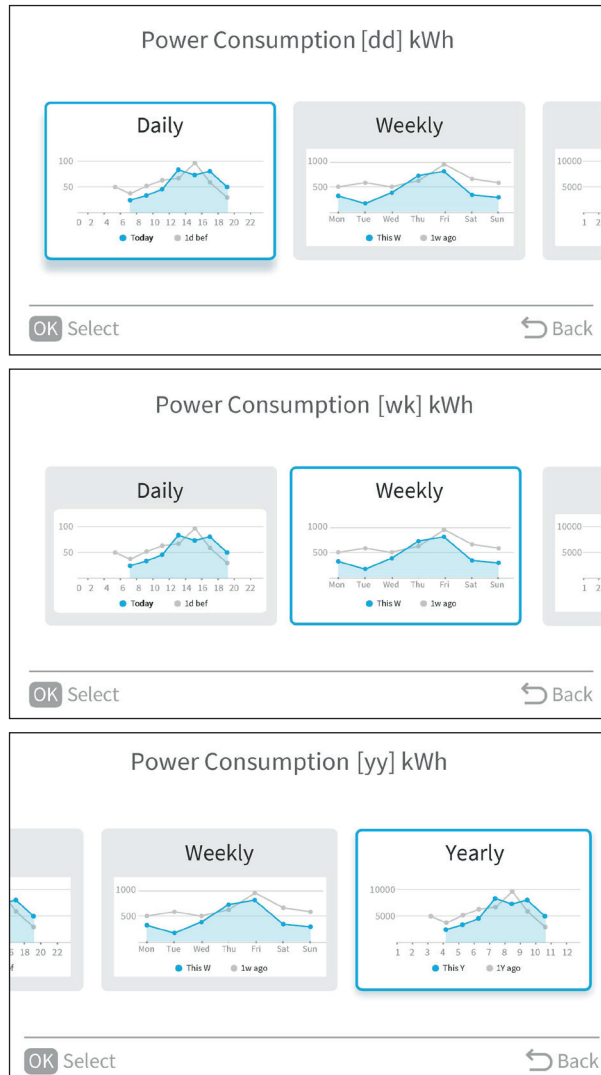
- 1 Select “Power Consumption Display” on the “Function Menu” screen and press “OK”.
 - If the current time is not set, the “Adjusting Date/Time” setting screen is displayed.



- 2 Press “OK”.



- Press “<” or “>” to select the display period, and then press “OK”.
It switches in the order of 1 day (24 hours) ↔ 1 week (7 days) ↔ 1 year (12 months).



- Comparison

Press “<” or “>” to switch the comparison target for the display period.

- ✓ 2 days before / 1 day before ↔ 1 day before / Today
- ✓ 2 week ago / 1 week ago ↔ 1 week ago / This week
- ✓ 2 years ago / 1 year ago ↔ 1 year ago / This year

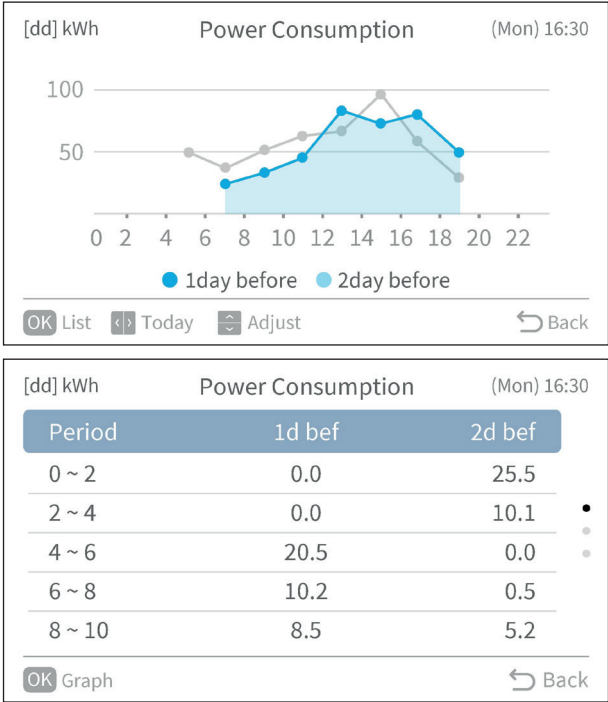
- Display scale

Press “^” or “v” to switch the display scale.

- Graph ↔ List display

Press "OK" to switch between the graph and list display of the power consumption display.

- Press “↶” to return to the display period selection screen.



3.7 Autoboot (Quick mode) Setting

AUTOBOOST is the commercial name of the “Quick mode” function.

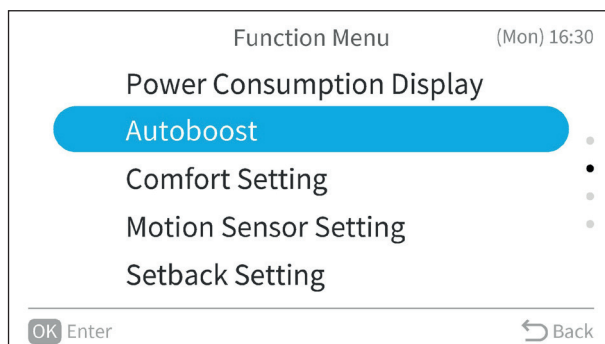
This function increases the cooling or the heating capacity for 30 minutes since the beginning of operation, in order to reach the setting temperature in the room as quickly as possible. It is only available when the operation mode is cooling or heating. This function makes operation begin with “Autoboot” option every time ON operation is set, until this function is deactivated (Autoboot setting = “Not Set”).

NOTE

- *Autoboot cannot be set when the outdoor unit does not support this function.*
- *Autoboot cannot be used if Power Savings is not supported.*
- *When quick function is activated while mode is "Cool", fan speed changes and is locked as "Auto" for 30 minutes at the longest regardless of the current setting. While in this operation (fan speed "Auto"), fan level may drop as low as "Low" when the room temperature gets close to the setting temperature. The operation starts regardless of the fan speed.*

Set the autoboot

- 1 Select “Autoboot” on the “Function Menu” screen and press “OK”.

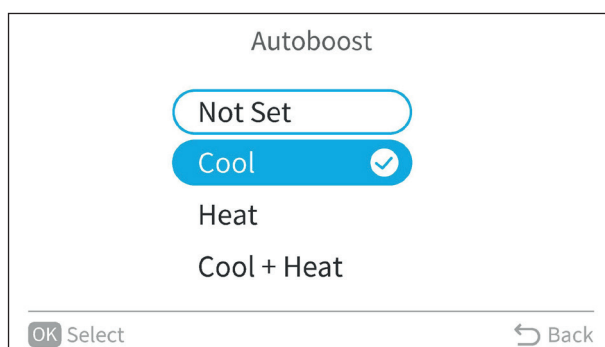


- 2 Press “^” or “v” the selected items changes as follows:

“Not Set” ↔ “COOL” ↔ “HEAT” ↔ “Cool + Heat”.

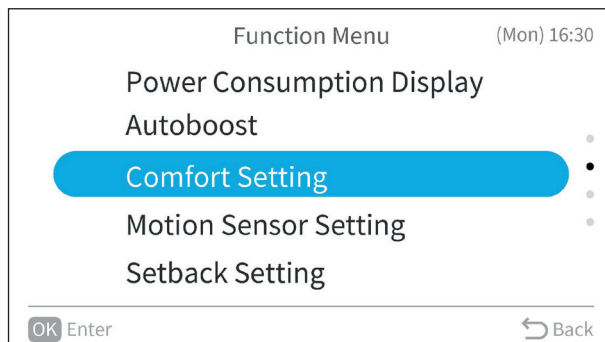
Select the Autoboot mode and press “OK” to confirm the settings.

Press “↵” to return to the “Function Menu” screen.



3.8 Comfort Setting

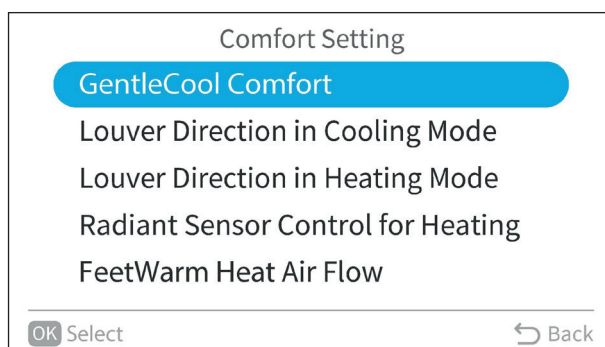
- 1 In order to access the Comfort settings menu, select “Comfort Setting” on the “Function Menu” screen and press “OK”.



3.8.1 GentleCool

This function, is used to control discharge air temperature when system is operating in the cooling mode.

- 1 Once in the Comfort setting menu, press “^” or “v” to select “GentleCool Comfort”, and then press “OK”.

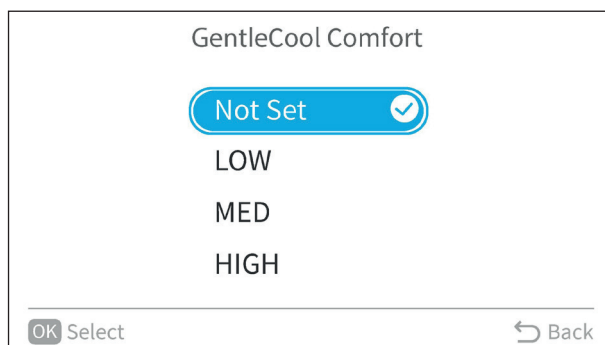


- 2 Press “^” or “v”, the selected comfort level changes as follows:

“Not Set” ↔ “LOW” ↔ “MED” ↔ “HIGH”.

Select the GentleCool Comfort Level during cooling and press “OK”.

Press one “↶” to return to the “Comfort Setting” screen.



NOTE

- This function cannot be set when the indoor unit does not support this function.
- According to the selected setting between LOW/MED/HIGH, the system will apply a determined air outlet target temperature value in order to prevent air flow from being too cold.

LOW: 12°C / MED: 14°C / HIGH: 16°C

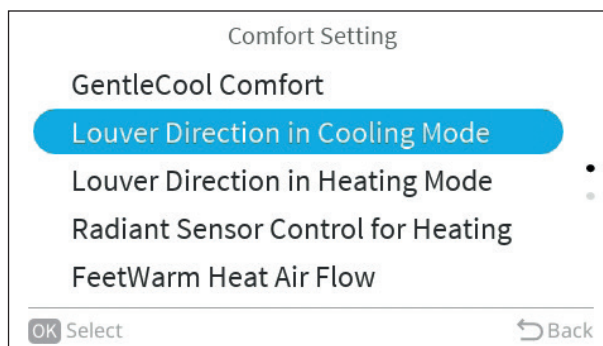
- The effect may not be sufficient if two or more units are operating in the room, which the air may be “cold”.
- When this function is set, it may take time for the entire room to cool down.

3.8.2 Louver direction in cooling/heating mode

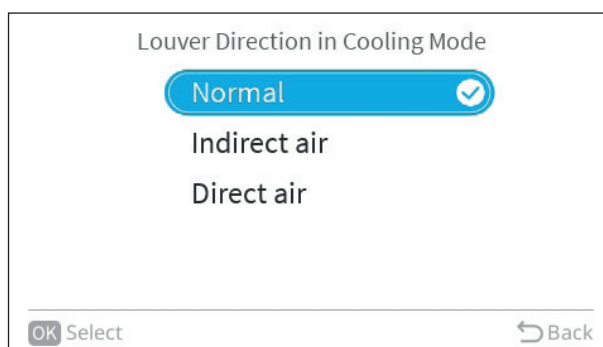
Louver direction setting (in cooling mode or in heating mode), that is available only for the latest RCI-FSR using the motion sensor installed in the panel P-AP160NAE2, is used to control the air flow of the room. Setting procedure is the same for both modes.

This function is available only for the RCI-FSR indoor units (4 way cassette units), equipped with the motion and radiation sensor installed in the panel P-AP160NAE2. According to the setting chosen by the user (indirect or direct air), the indoor unit will adapt the operation of the air louvers to avoid blowing air directly on the users or it will target directly the users for a fresh air effect.

- 1 Once in the Comfort setting menu, press “^” or “v” to select “Louver Direction in Cooling Mode”, and then press “OK”.



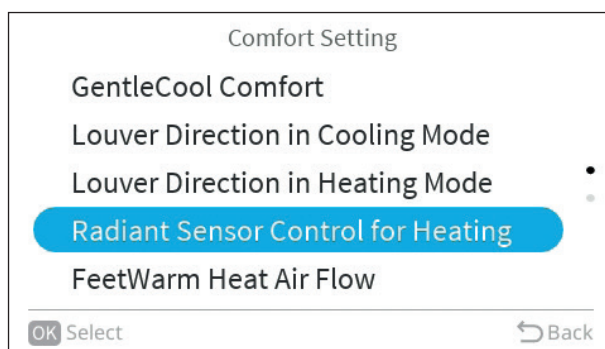
- 2 Press “^” or “v”, the louver direction setting changes as follows: “Normal” ↔ “Indirect air” ↔ “Direct air”
- 3 Select the desired setting and press “OK”.
- 4 Press once “↶” to return to the “Comfort Setting” screen.



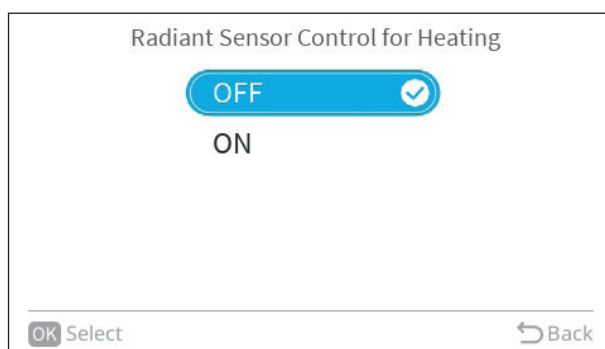
3.8.3 Radiant sensor control for heating

The radiant sensor detects the radiation temperature of humans or objects by measuring the level of infrared light they emit.

- 1 Once in the Comfort setting menu, press “^” or “v” to select “Radiant Sensor Control for Heating”, and then press “OK”.



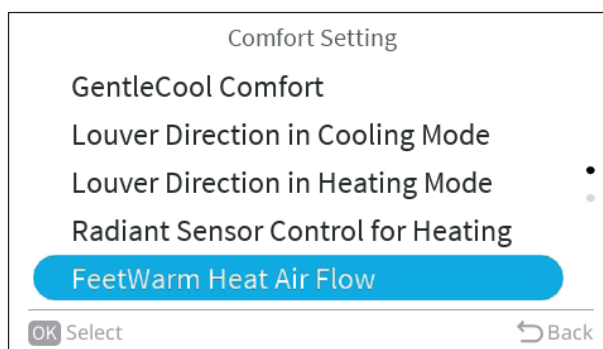
- 2 To activate the sensor, press “v” and then press “OK” in order to select “ON”.
- 3 Press once “↶” to return to the “Comfort Setting” screen.



3.8.4 FeetWarm heat air flow

By activating the “FeetWarm Heat Air Flow” function, the ambient temperature near the feet of the users is increased and the room temperature unevenness is reduced.

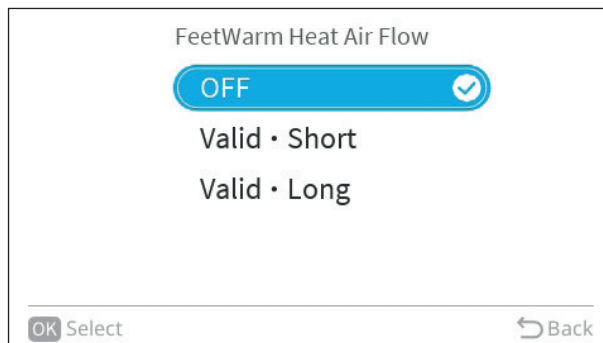
- 1 Once in the Comfort setting menu, press “^” or “v” to select “FeetWarm Heat Air Flow”, and then press “OK”.



- 2 Press “^” or “v”, the selected settings changes as follows:

“OFF” ↔ “Valid • Short” ↔ “Valid • Long”.

- 3 Select the desired setting and press “OK”.
- 4 Press once “↶” to return to the “Comfort Setting” screen.



NOTE

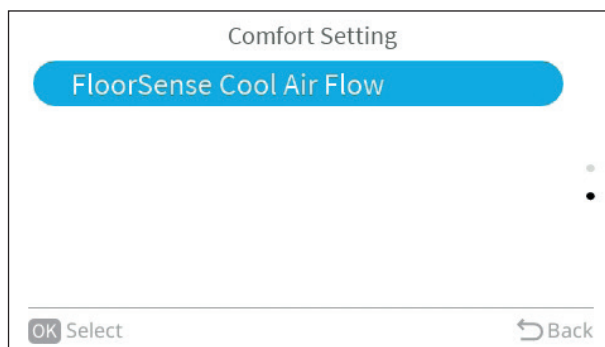
Depending on the wired controller setting, the operation is performed at the following duration:

- “Valid • Short” (this control operates for maximum of 40 minutes):
 - » At Start-up operation: 15-30 minutes
 - » At temperature unevenness suppression operation: 10 minutes
- “Valid • Long” (this control operates for maximum of 80 minutes):
 - » At Start-up operation: 15-60 minutes.
 - » At temperature unevenness suppression operation: 20 minutes

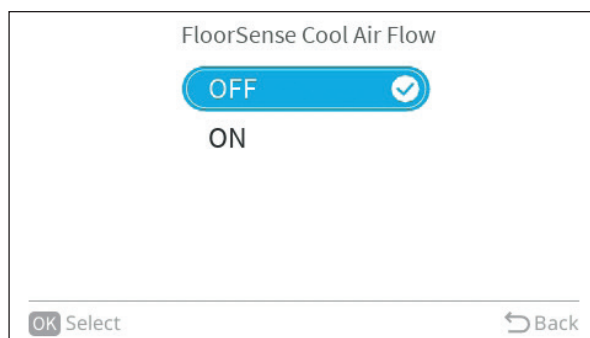
3.8.5 FloorSense cool air flow

Thanks to this function and to the motion & radiation sensor, the indoor units can detect a possible over cooling situation at the floor level, which may generate discomfort. The indoor unit can then adjust its behaviour, to reduce this over cooling effect and restore a more comfortable situation.

- 1 Once in the Comfort setting menu, press “^” or “v” to select “FloorSense Cool Air Flow”, and then press “OK”.



- 2 To activate the function, press “v” and then press “OK” in order to select “ON”.
- 3 Press once “↶” to return to the “Comfort Setting” screen.



3.9 Motion sensor setting

This function and its settings are available only for indoor units equipped with a motion sensor. The motion sensor can be integrated into the front panel of the unit or a separate accessory.

The motion sensor monitors human activity using infrared signals.

When the motion sensor is activated, Auto-Save and Crowd sense functions are enabled (for compatible units), allowing the system to run energy saving procedures, maintaining the comfort of the users.

Auto-Save function: the cooling or heating capacity of the system is reduced when a room is getting less occupied. When human activity is detected in the room, normal operation of the system can be resumed.

Crowd-Sense function (for compatible units only): the cooling or heating capacity of the system can be adjusted automatically according to the level of occupancy of the room, to avoid a room temperature increase when the area is crowded

This function saves the air conditioning capacity (adjusting the set temperature, the air flow volume and the air flow direction) automatically depending on a situation.

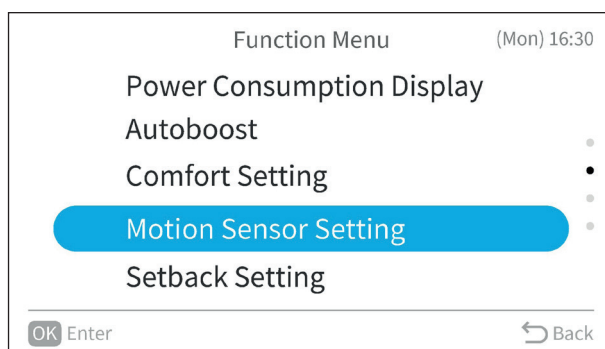
CAUTION

- *Do not use the motion sensor function when a baby or a handicapped person stays by oneself. The motion sensor may detect as absence and the operation may be stopped in the case of staying for long time with a bit motion.*
- *The motion sensor detects the human activity. However, if the level of activity in the room is too low (for example if someone is in a room with bit activity), the motion sensor may detect as absence.*
- *The motion sensor may detect as human activity any moving object generating a temperature difference with the room ambient temperature. Example: auto-swing operation of any heating system installed near the indoor unit equipped with the motion sensor.*
- *In the case that the indoor units are operated by 2 remote control switches, the motion sensor setting is available only from the main remote control switch.*
- *The indoor unit operation can be stopped by the motion sensor control.*
- *While the air conditioning capacity is saved or the operation is stopped by the motion sensor control, "Motion sensor is activated" is displayed on LCD.*
- *In case Auto-Save and Crowd-Sense functions are applied to indoor units that are managed by a Central Controller (CSNET Manager or Central Stations), the following limitations must be considered to avoid unexpected behaviour of the system:*
 - » *Do not select "Stop • Detect" setting for the "If absent" mode when indoor units remote controller settings are locked by the Central Controller (partial lock or full remote controller lock).*
 - » *More generally, it is recommended to use "ON" or "Standby" settings for the "If absent" mode when a Central Controller is used on the related VRF system.*

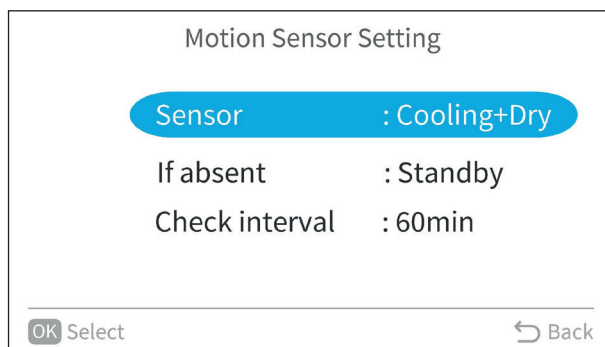
- » These settings are recommended to avoid unexpected control of the indoor units, such as:
 - » Indoor unit operation not stopped by the motion sensor control when the “If absent” sequence is engaged.
 - » Indoor unit operation not resumed by the motion sensor control when human activity is detected.

3.9.1 Motion sensor selection

- 1 Select “Motion Sensor Setting” on the “Function Menu” screen and press “OK”.

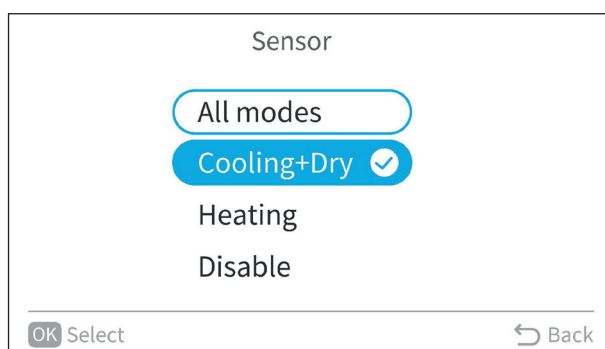


- 2 Press “^” or “v” to select “Sensor”, and then press “OK”.



- 3 Press “^” or “v”, the sensor changes as follows:
“All modes” ↔ “Cooling+dry” ↔ “Heat” ↔ “Disable”.

- 4 Select the sensor and press “OK”.
- 5 Press “↵” to return to the “Function Menu” screen.



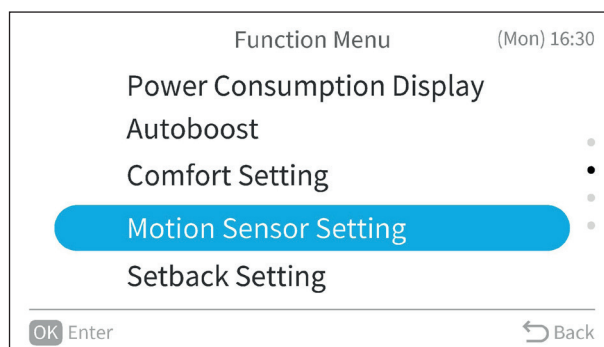
- All modes: The operating control function by the motion sensor is activated when HEAT, COOL or DRY mode is selected.
- Cooling+Dry: The operating control function by the motion sensor is activated when COOL or DRY mode is selected.
- Heating: The operating control function by the motion sensor is activated when HEAT mode is selected.
- Disable: The operating control function by the motion sensor is not activated.

3.9.2 Absent setting selection

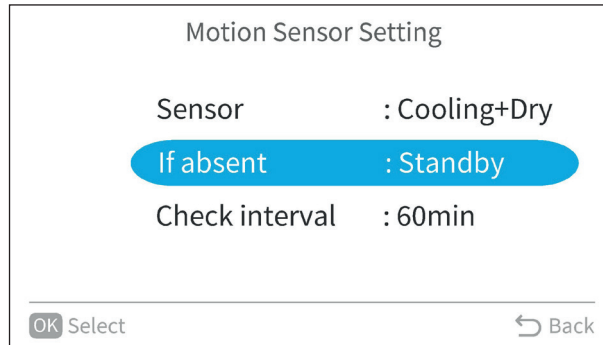
The “If absent” setting defines the operation mode of the indoor units when “Auto-Save” function enters in the “If absent” control sequence. This sequence is activated when the motion sensor detects an absence during the time set by the “Check interval” setting.

- **ON**
The operation continues with saving the capacity after being detected as an absence. If human activity is detected over a period of time, normal operation is performed again.
- **Standby**
Indoor units are set to forced Thermo-OFF and the fan speed to “Low” speed. If human activity is detected for a period of time, normal operation is performed again.
- **OFF**
The operation is stopped by the wired controller and the indoor units are not restarted automatically by the sensor even if activity is detected again.
- **Stop • Detect**
In case several indoor units using a motion sensor are connected to the same wired controller, operation of all the units will be stopped once all the related indoor units will detect the “absence” mode. If human activity is detected for a period of time once this stoppage sequence is engaged, normal operation is then resumed.

- 1 Select “Motion Sensor Setting” on the “Function Menu” screen and press “OK”.



- 2 Press “^” or “v” to select “If absent”, and then press “OK”.

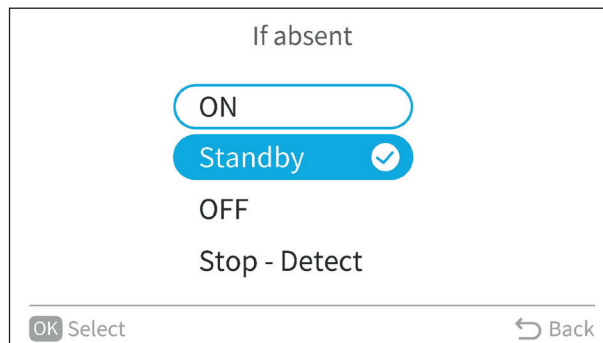


- 3 Press “^” or “v”, the operation changes as follows:

“ON” ↔ “Standby” ↔ “OFF” ↔ “Stop - Detect”.

Select the operation and press “OK”.

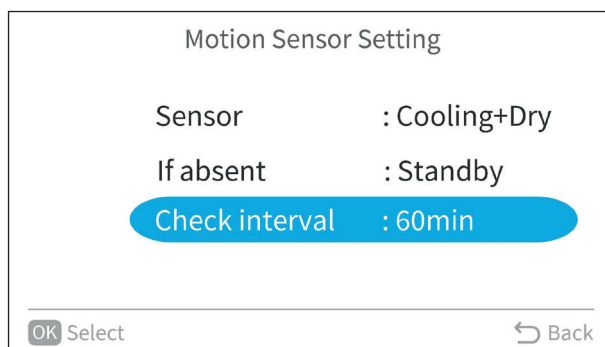
Press “↶” to return to the “Function Menu” screen.



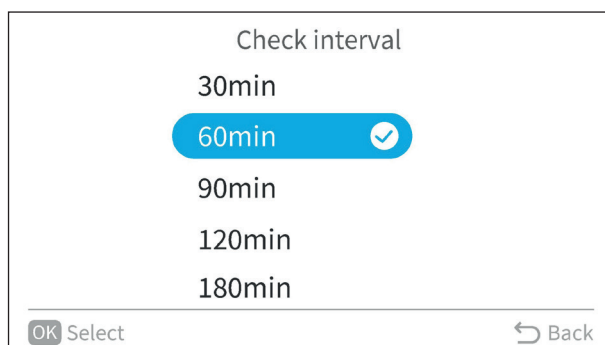
3.9.3 Check interval time setting

When the motion sensor detects an absence at selected check interval time, the function “If absent” will be executed. The check interval can be set to 30, 60, 90, 120 or 180 minutes (the default setting is 30 minutes).

- 1 Select “Motion Sensor Setting” on the “Function Menu” screen and press “OK”.
- 2 Press “^” or “v” to select “Check interval”, and then press “OK”.



- 3 Press “^” or “v”, to select the interval check time and press “OK”.
- 4 Press “↶” to return to the “Function Menu” screen.



3.10 Setback Setting

3.10.1 Setback schedule setting

Setback function is designed to maintain a minimum level of comfort in a room when it is not occupied.

Setback operation is made available through the setting of optional functions in the Function Selection menu, which is located in the Test Run menu of the wired controller. In case of using an external input, the setting of the external input in the Test Run menu of the wired controller is also required.

During Setback operation, fan speed is automatically set to LOW. The control sensor during Setback operation is the sensor defined by C8 setting (optional function menu).

“Setback” is displayed on the LCD of the wired controller while the Setback control is in operation.

There are several modes available for the Setback function:

Setback Input

In hotel rooms, Setback Temperature Control is activated when the card key is taken out from the card holder. As soon as the card key is inserted again, the normal control is restored.

Setback Schedule

Setback Temperature Control works during a period determined by the users, such as during night time. The normal control is restored once the scheduled period is over.

Setback Manual

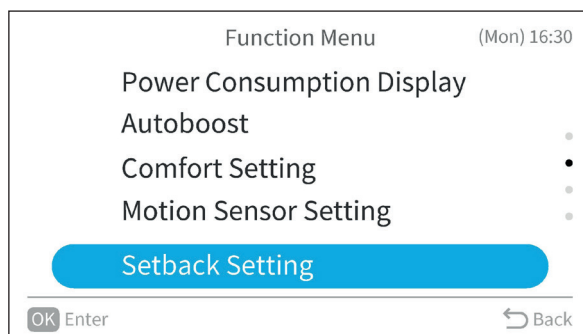
Setback Temperature Control is activated manually by the user when he is leaving the room. The normal control is restored when Setback Temperature Control is turned off manually.

To select the Setback mode, set the optional parameter “qE” from the Function selection menu. The following settings are also useful for the configuration of the SetBack function: C8, qb, rE, rF, qC, qd, qF and r9.

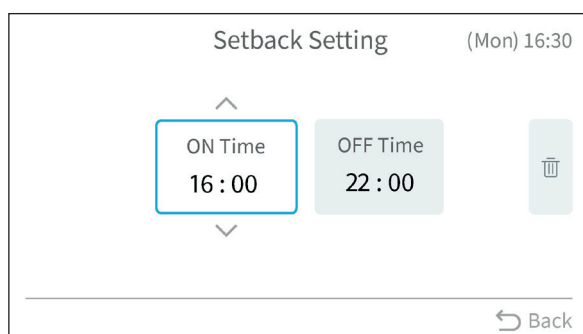
To get more details about these settings, refer to the chapter *“4.1.3 Thermistor Selection”*.

This function is used to start/stop setback mode at desired time. It is available only when setback mode is set as Schedule mode. To change the setback mode, select another mode at the function selection setting. Contact your distributor for detailed information. The items cannot be set/modified if indoor unit does not support this function.

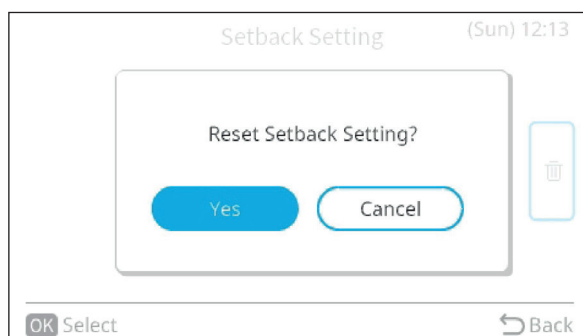
- 1 Select "Setback Setting" on the "Function Menu" screen and press "OK".
If the current time is not set, the "Adjusting Date/Time" setting screen is displayed.



- 2 Press "<" or ">" to select the settings, and the selected item changes as follows:
"ON Time" ↔ "OFF Time" ↔ "🗑️".



- 3 Press "^" or "v" to select the setting. After setting, press "↵" to confirm the settings and then the screen returns to the "Function Menu" screen.
 - When "ON Time" / "OFF Time" is selected the time changes every 30 minutes. If you press and hold "^" or "v", the number will increase or decrease continuously.
 - Do not set the same time for ON Time and OFF Time.
It's unavailable if ON time or OFF time is not set.
 - When "🗑️" is selected, the confirmation screen is displayed. Select "Yes" and press "OK" to delete the settings and the screen returns to Step2.
If select "Cancel", the screen returns to the "Setback Setting" screen.



NOTE

In the following instances, the schedule operation is NOT available:

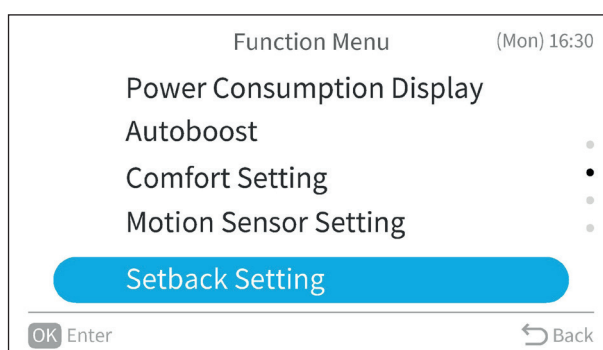
- When the operation is prohibited by the controller and is set from the central controller.
- If the icon  is displayed, the schedule control is NOT activated because the Date/Time is not specified yet. To specify the Date/Time setting, refer to “5.1 Adjusting date / time” for details.

3.10.2 Setback manual setting

This function is used to temporarily activate Setback operation. It is available only when Setback mode is set as Manual mode; this function is normally used to set a long vacation.

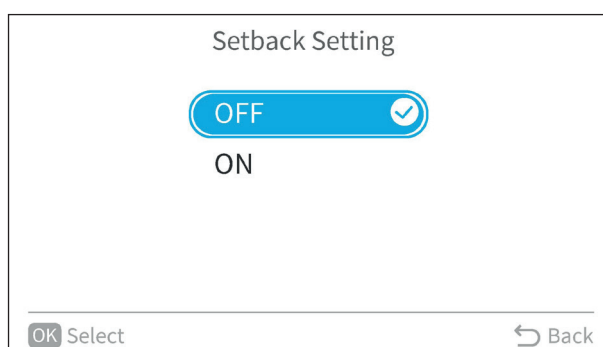
The items cannot be set/modified if indoor unit does not support this function.

- 1 Select “Setback Setting” on the “Function Menu” screen and press “OK”.



- 2 Press “^” or “v” to select “ON”. Press “OK” and the screen returns to the “Function Menu” screen.

- The indicator  turns on when schedule operation is ON.
- The indicator  turns off when schedule operation is OFF.



NOTE

Setback operation cannot be ON/OFF while wired controller operation is prohibited.

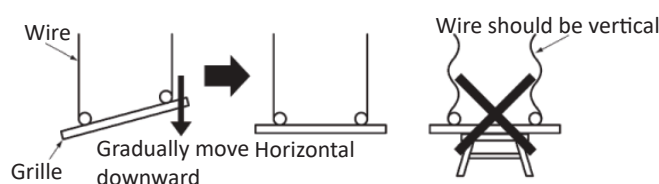
3.11 Elevating Grille

This function is used to raise and lower grille when the air filter and grille need to be cleaned.

It is available only when the elevating grille is equipped with the air panel.

NOTE

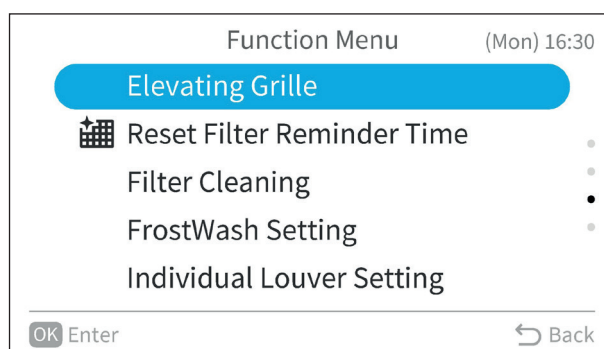
- In order to enable this function there are specific settings to be done for the input/output contacts. See “4.1.15 Elevating grille Setting” to configure the needed settings. If these settings are not set, this function cannot work.
- When the air inlet grille is set inside the air panel, ensure that the air inlet grille is horizontal and the wire is suspended tightly without loosening.



- After the above is ensured, set the air inlet grille. If the air inlet grille is inclined and the wire is loosened, they may be caught in the pulley. It may lead to a failure of the pulley or pulley block. If the worst happens, it may cause personal injury if the air panel falls open.
- This function is available only for indoor unit elevating grille.
- Make sure that the unit operation is stopped before using the elevating grille.
- The elevating grille function is not available when the unit is operating.
- One wired controller can control the grille of several indoor units only if the related indoor units are connected to the A/B line of this wired controller.

Use the elevating grille function

- 1 Select “Elevating Grille” on the “Function Menu” screen and press “OK”.
- If there is only one indoor unit, the elevating grille operation screen in Step3 is displayed.

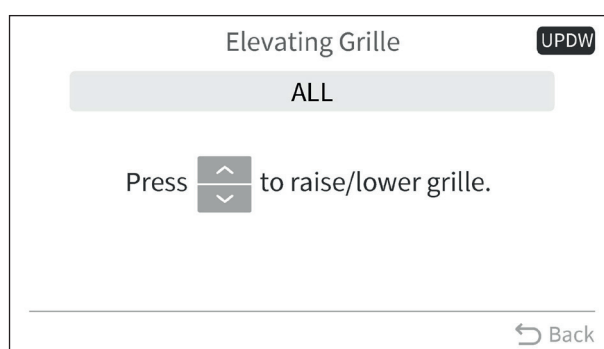


- Press “^”, “v”, “<”, or “>” to select the indoor unit(s) for which the grille has to be raised or lowered. Press “OK”.



Refrigerant system number - indoor unit address

- Press “v” to lower the grille until it's lowered to the set distance.
 - If it is necessary to further lower the grille (more than the set value), press “v” again.
 - Each press lowers the grille by 20in (50cm).
 - Pressing “^” can stop the grille at any position while it is lowering.



- After cleaning the air filter, install the air filter and press “^” to raise the grille. Once the grille is stored inside the unit, it will stop after approximately 3 seconds.
 - If the grille is tilted when stored, press “^” again until the tilt is corrected.
 - Pressing “v” can stop the grille at any position while it is raising.
- Press “<” to return to the indoor unit selection screen.

To operate other indoor units, perform the operations of above Step2.

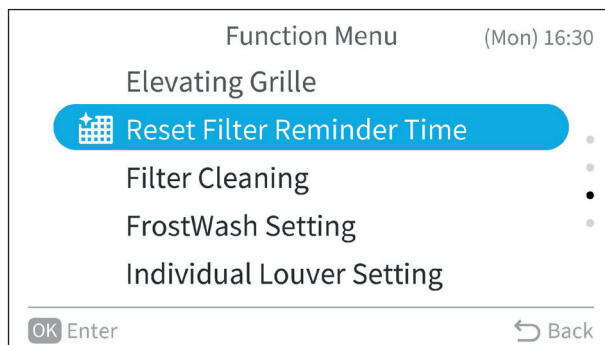
To end the operation, press “>” again to return to the “Function Menu” screen.

 - If there is only one indoor unit, the screen returns to the “Function Menu” screen.

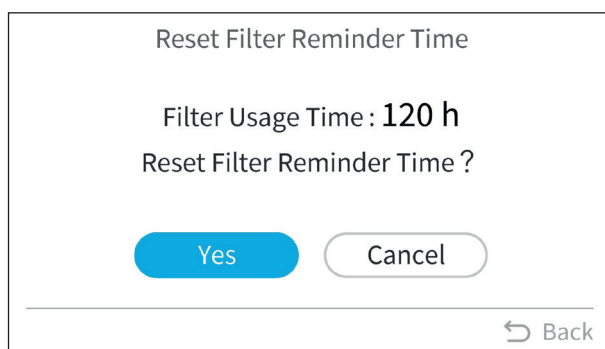
3.12 Filter Reminder Reset Setting

This function is used to turn off the filter reminder indication and to reset the time of use for the filter.

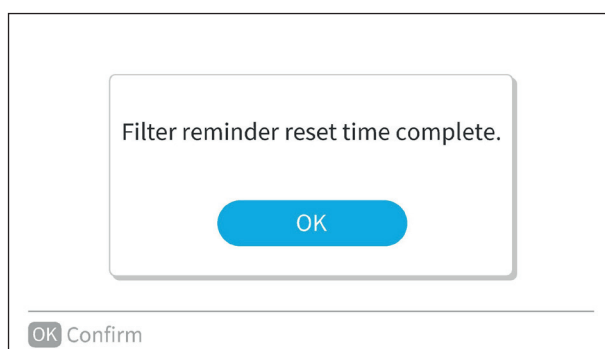
- 1 Select "Reset Filter Reminder Time" on the "Function Menu" screen and press "OK".



- 2 Press "<" or ">" to select "Yes", and then press "OK".
 - The screen returns to the "Function Menu" screen depending on the type of the indoor unit.

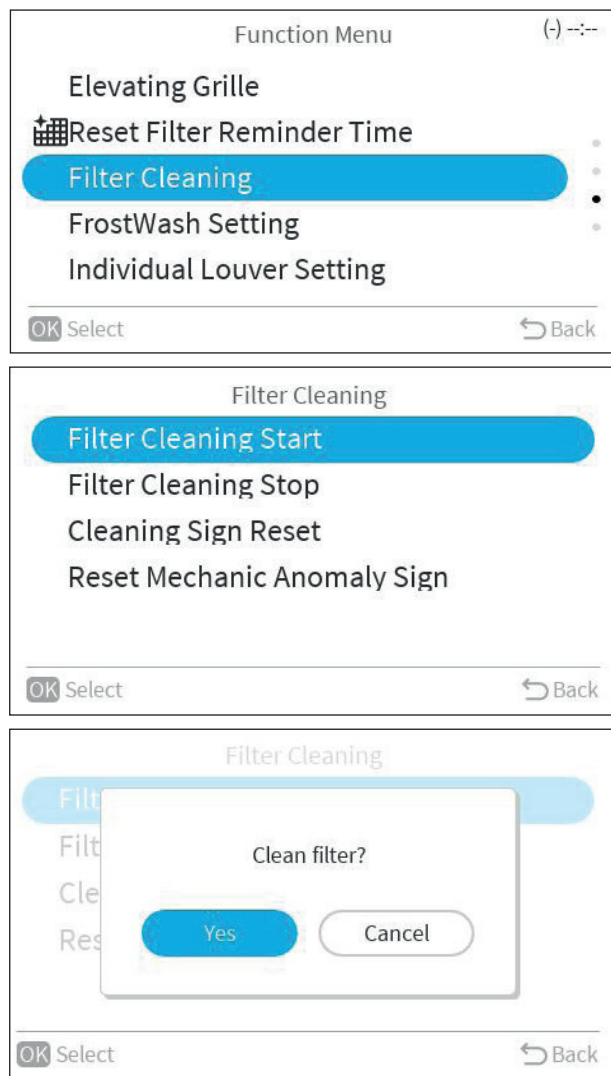


- 3 Press "OK" and the screen returns to the "Function Menu" screen.

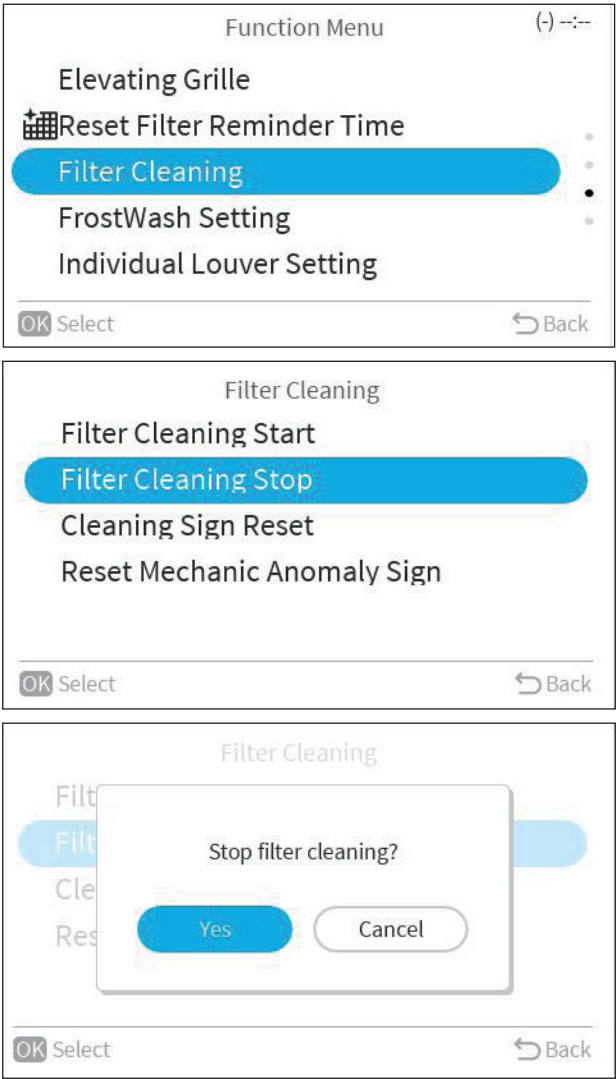


3.13 Filter cleaning (Not available)

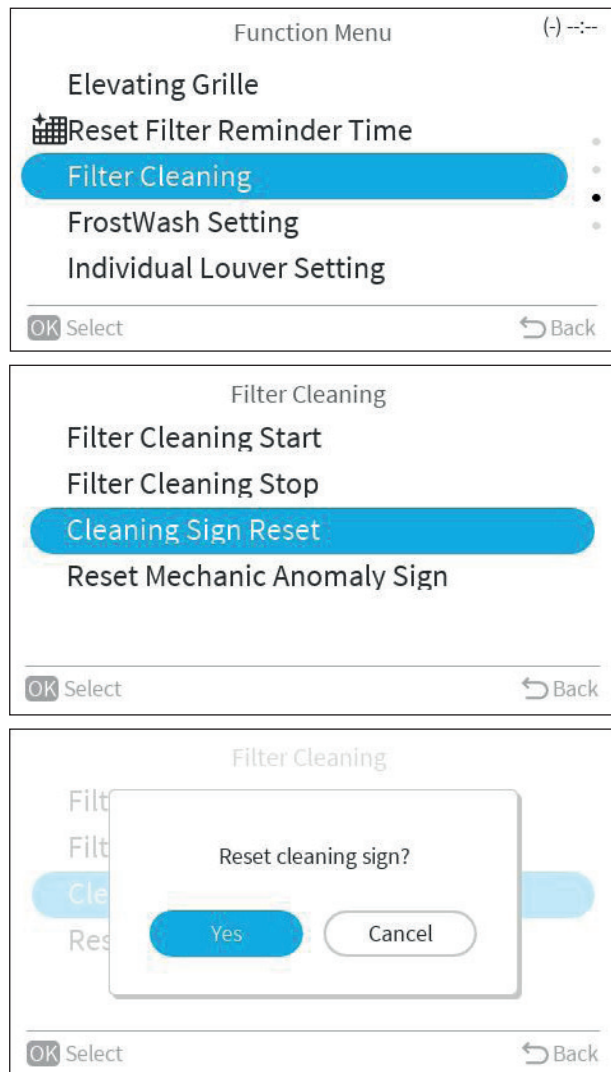
3.13.1 Filter cleaning start



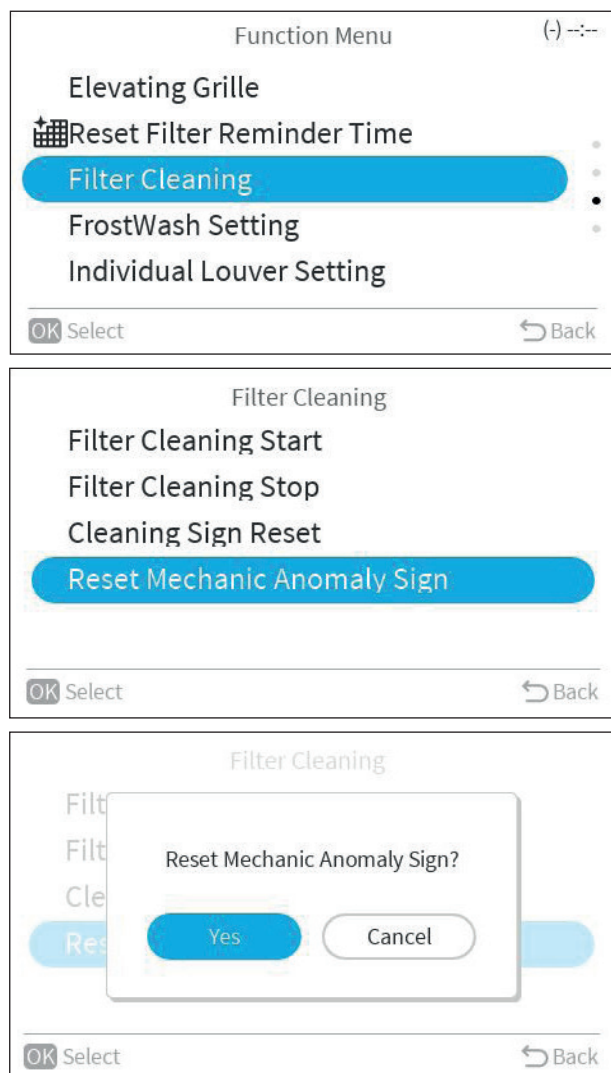
3.13.2 Filter cleaning stop



3.13.3 Cleaning sign reset



3.13.4 Reset Mechanic Anomaly Sign



3.14 FrostWash

FrostWash is available when applicable outdoor units and indoor units are connected. To use this function in VRF system, outdoor unit function selection item “F1” need to be configured on outdoor units.

Please configure function selection F1 on the outdoor units, and then set the wired remote controller.

Please contact the distributor or service personnel for availability and configuration of this function.

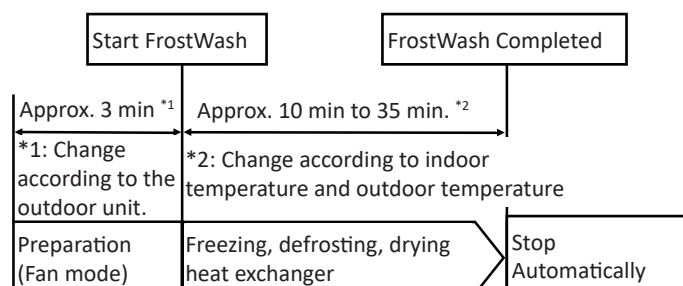
3.14.1 About FrostWash

- Regarding the noise upon freezing and defrosting
 - ✓ Cracking noise may be heard during the freezing or defrosting phase due to temperature change. Refrigerant flow noise may also be heard. The noise may be heard relatively louder in a quiet environment. It is recommended to set the “Auto-FrostWash Schedule” when the room is not occupied.
 - ✓ Choose not to use the FrostWash function in places such as hotel rooms and hospitals, where consistent quietness is expected.
- Ice fog may come out from air outlet during the FrostWash operation.
- Ice fog could happen in a humid environment such as the room humidifier is used in a small room.
- FrostWash is available when the outside temperature is in the range of (1°C - 43°C), and the indoor temperature is in the range of (15°C - 30°C).
- Also refer to technical documents of outdoor units because outdoor temperature range may vary depending on outdoor units' type.
- The temperature around the indoor unit may drop slightly during FrostWash operation.

3.14.2 Start FrostWash

Generate frost on the coil and then melt the frost to wash the coil.

FrostWash setting is not enabled as factory setting. This function has to be activated from the outdoor unit first (refer to **"3.14.5 FrostWash Setting"** for more information) and then controlled from the wired controller.



- Press "OK" on the wired controller to cancel FrostWash in the middle of an operation.
- After a cancellation, frost on the heat exchanger needs to be defrosted and the heat exchanger needs to be dried. The system cannot start operation for at least 8 minutes after cancellation.
- You cannot start another FrostWash immediately after a FrostWash operation completes. Run either cooling operation, heating operation or dry operation for approx. 60 minutes. Then, start another FrostWash operation.

i NOTE

Do not open or remove the air inlet grille during the FrostWash operation. It may cause injury or damage of units.

3.14.3 FrostWash setting on outdoor unit

To use this function in the VRF system, function selection F1 needs to be configured on the outdoor units. FrostWash setting is disabled on the factory default setting. Set Function Selection F1 according to the following table.

"F1" Setting Condition	Auto-FrostWash		Manual FrostWash
	"Interval" Time Duration	Start-up Timing	Operation
0	Factory Setting (Default): Not available FrostWash		
1	Total Compressor Operation Hour: 500h	2 hours after system stopped	Operate outdoor unit PSW
2	Total Compressor Operation Hour: 1000h		
3	Total Compressor Operation Hour: 500h	Within the time zone scheduled by Main Wired Controller*1,2	
4	Total Compressor Operation Hour: 1000h		
5	Total Indoor Unit Fan Operation Hour: Depending on Main Wired Controller Setting	Within the time zone scheduled by Main Wired Controller*1,2	Operate from Main Wired Controller*1 or operate outdoor unit PSW

*1: Only one “Main Wired Controller” exists in the same refrigerant cycle, and all the others are “Sub Wired Controller”. Refer to “4.1.12 Main Remote Setting” in this manual for the details of Main Wired Remote Controller setting.

*2: You can set the schedule for the FrostWash operation from the Main Remote Controller. Otherwise, the FrostWash operation will start soon after the system is stopped.

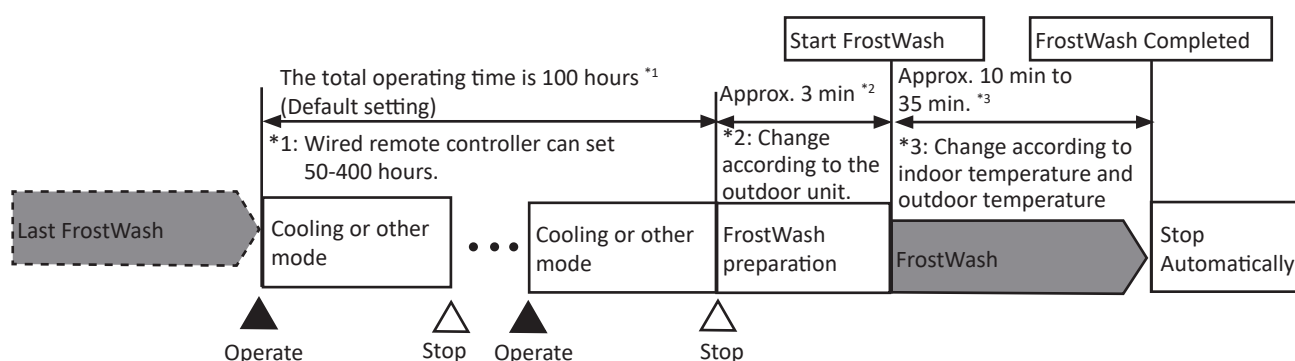
This function suppresses a clog on the heat exchanger.

First, freeze the indoor unit heat exchanger when whole system is under stoppage. Then defrost it to remove the dust with drain water. Auto-FrostWash and Manual FrostWash are selectable.

NOTE

- This function cannot be set when the indoor unit and the outdoor unit do not support this function.
- Depending on the outdoor unit, the settings on the outdoor unit may be required.
- Cracking noise may be heard during freezing or defrosting phase due to temperature change. Refrigerant flow noise may also be heard. The noise may be heard relatively louder in a quiet environment. It is recommended to set "Auto-FrostWash Schedule" when room is not occupied.
- Ice fog may come out from air outlet during FrostWash operation. Ice fog could happen in a humid environment such as the room humidifier is used in a small room.
- This function is not available to operate where the outside temperature is lower than 1°C or higher than 43°C.
- This function is not available to operate where the room temperature is lower than 15°C or higher than 30°C.
- The level of dust removed is depend on usage environment.
- Limitations and settings are required when using this feature in a VRF system.

3.14.4 Auto-FrostWash Flow



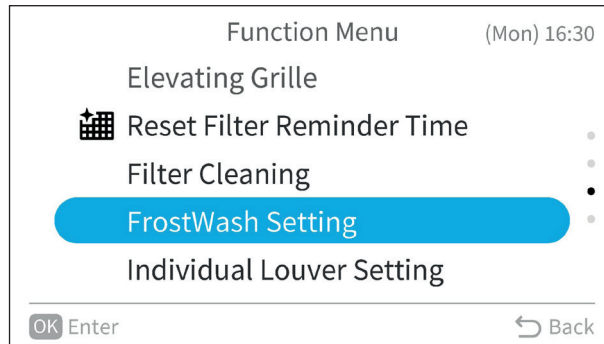
- Auto-FrostWash is disabled in default setting. To enable this function, set the Auto-FrostWash be enabled.
- If the Auto-FrostWash is stopped, the total operating time will be reset.

NOTE

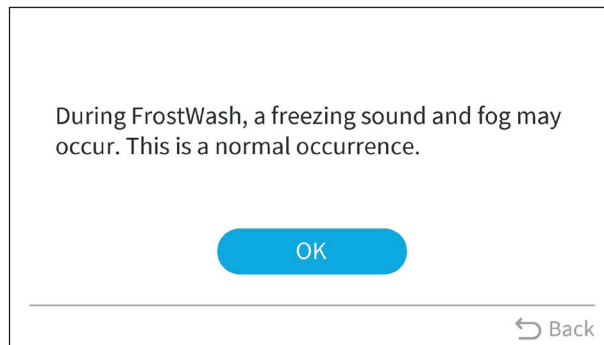
In the case of 2 remote controllers, FrostWash can be set only on the primary wired remote controller.

3.14.5 FrostWash Setting

- 1 In order to access FrostWash settings, select “FrostWash Setting” in Function Menu, and press “OK”.



- 2 Press “OK”.



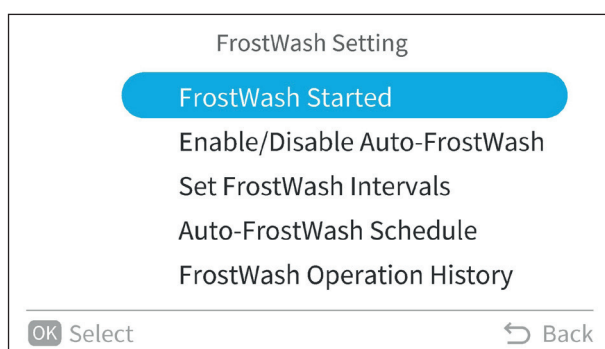
◆ Manual FrostWash

NOTE

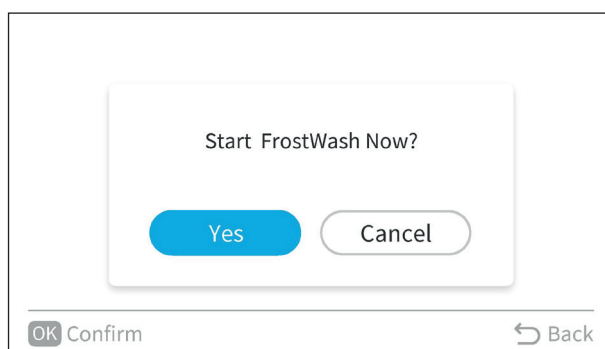
- The icon  disappears when performing Manual FrostWash or when enabling the Auto-FrostWash.
- Manual FrostWash may not be performed when the unit is used continuously in fan mode, despite the display of the  icon. After operating the unit in cooling, heating or dry mode, manual FrostWash can be performed.

This function is to perform FrostWash at your favourite timing, such as when you have not used Cooling or another mode for a while.

- 1 Press “^” or “v” to select “FrostWash Started” and press “OK”.



- 2 Press “<” or “>” to select “Yes” and press “OK”. Manual FrostWash is started.



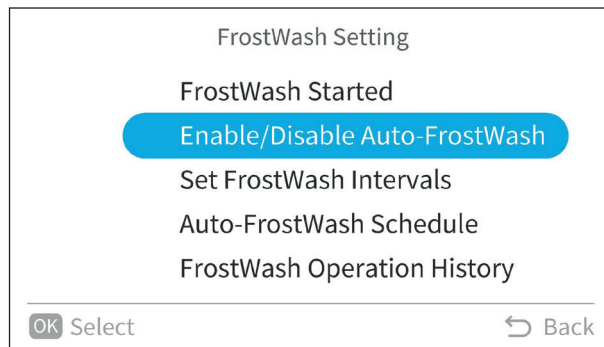
◆ Auto-FrostWash

NOTE

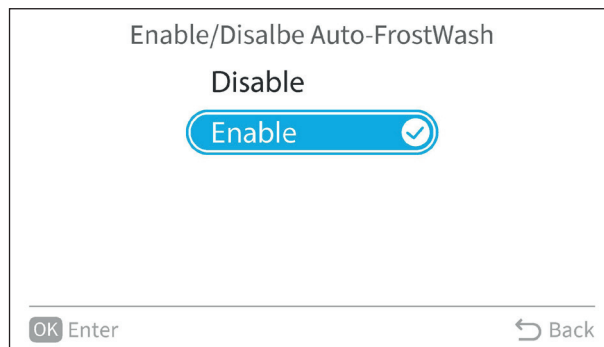
The icon  disappears when performing Manual FrostWash or when enabling Auto FrostWash.

This function automatically starts FrostWash when the indoor unit operation is stopped and the set time interval has elapsed.

- 1 Press “^” or “v” to select "Enable/Disable Auto-FrostWash" and press "OK".

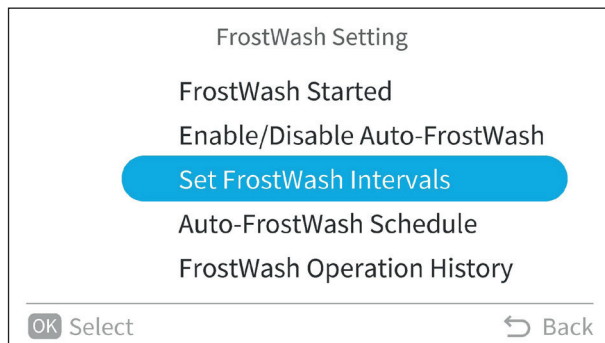


- 2 Press “^” or “v” to select "ON" and press "OK". Press "↶" to return to Step1.

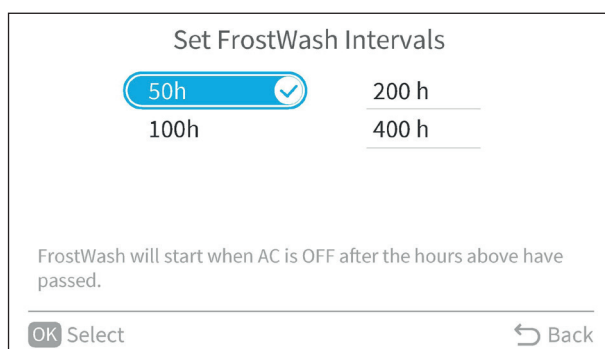


◆ FrostWash Intervals

- 1 Press “^” or “v” to select “Set FrostWash Intervals” and press “OK”.



- 2 Press “^”, “v”, “<”, or “>” to select interval time and press “OK”.



◆ Auto-FrostWash Schedule

- 1 Press “^” or “v” to select "Auto-FrostWash Schedule" and press "OK".
- If the current time is not set, the time setting screen “5.1 Adjusting date / time” is automatically displayed.



- 2 Press “^” or “v” to select from schedule "1" to "5". Press “<” or “>” to select "Start time", "End time", "Weekday". Then press “^” or “v” to adjust.
- Press and hold the “^” or “v” to increase or decrease continuously.
 - Select "🗑️" and press "OK" to delete the schedule. Select schedule "1" to "5" and press "↩" to confirm the Auto-FrostWash schedule.

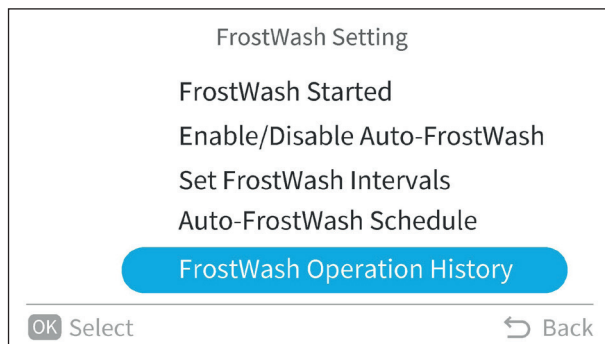
Auto-Frost Wash Schedule Mon 16:30					
Available Time Slot			~		
1	08:30	~	10:30	Monday	🗑️
2	13:00	~	17:00	Monday	🗑️
3	17:30	~	19:00	Monday	🗑️
4	19:30	~	22:00	Every Day	🗑️
5	--:--	~	--:--		🗑️
Press Up and Down to adjust					Back

◆ FrostWash Operation History

NOTE

- If the current time is not set, the date will be "- -".
- The start time is the time when FrostWash is being prepared.

1 Press “^” or “v” to select "FrostWash Operation History" and press "OK".



2 Press the “^” or “v” to show the FrostWash history.

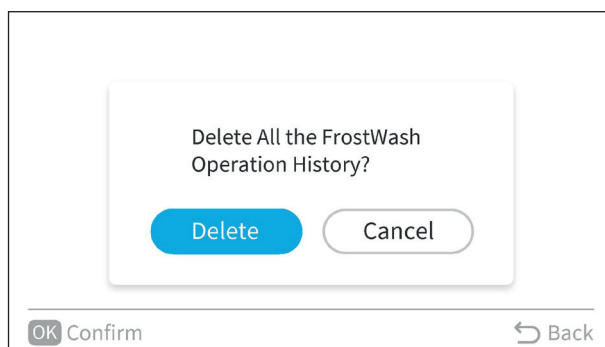
- "Done" or "Paused" is displayed as the result.
- Up to 15 records can be saved.

Date	Start Time	Result
2019/11/30	23:56	Done
2019/07/31	23:33	Paused
2019/01/22	00:30	Done
2018/10/22	00:30	Done
2018/08/28	00:30	Done

At the bottom of the screen, there are 'OK Delete' and 'Back' buttons.

3 To delete the FrostWash history, press “OK” to display the confirmation screen.

- Select "Delete" and press "OK" to clear the FrostWash history and return to Step2.
- Select "Cancel", the screen returns to Step2.



3.14.6 Display during FrostWash

During FrostWash operation, the following screens sequences are displayed:

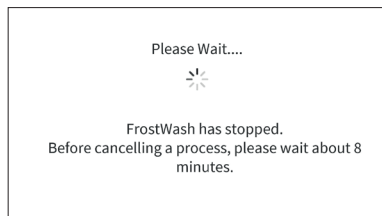
❑ FrostWash in prepration



② FrostWash in progress



③ Complete FrostWash



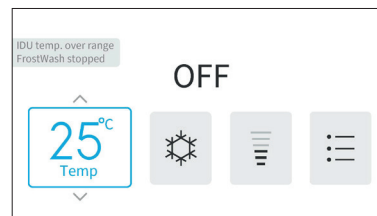
The display of completed FrostWash will disappear when one of the remote controllers is operated after the backlight is turned on.

i NOTE

- In each screen display, the backlight turns off after a certain period of time (The default setting is 15 seconds.) after operation, so it may be difficult to see the screen display.
- If the display is difficult to see, press any switch to turn on the backlight. At that time, if you press the "OK", the screen will change to the ①②
- 1 FrostWash pause screen.

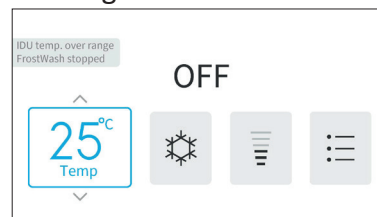
If the indoor or outdoor temperature does not meet the conditions for FrostWash, the following is displayed.

❑- 1 When the indoor unit is out of the temperature range



If the room temperature is outside the range of 15°C to 30°C, FrostWash will not be performed and the pause screen is displayed. The display will disappear when one of the remote controllers is operated after the backlight is turned on.

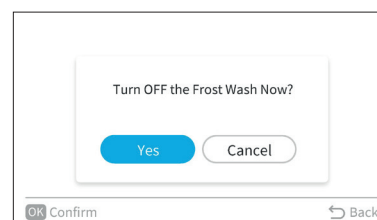
①- 2 When the outdoor unit is out of the temperature range



If the room temperature is outside the range of 1°C to 43°C, FrostWash will not be performed and the pause screen is displayed. The display will disappear when one of the remote controllers is operated after the backlight is turned on.

If FrostWash is paused, the following is displayed.

①②- 1 Press "OK" (Turn off the FrostWash)



①②- 2 FrostWash off screen



The above display will continue for about 8 minutes. Please note that no operation can be done at that time.

3.14.7

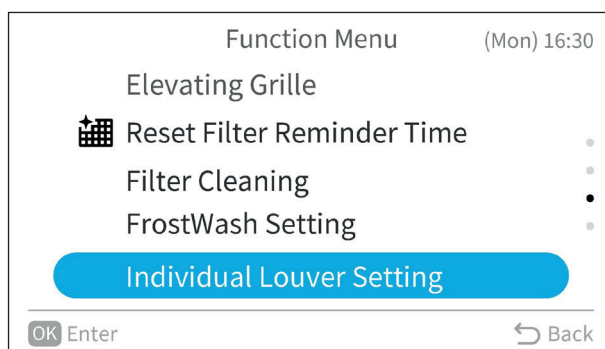
3.15 Individual Louver Setting

This function is to individually set the air direction of multiple air outlets.

NOTE

- This function is available when the indoor unit supports individual louvers.
- It cannot be set while the air conditioner is stopped.
- The fan speed changes to "LOW" while this function is being set. After the setting is completed, the unit operation is back to normal.
- As for "Start-up of Heating Operation", "During Defrost Operation" and "Activation of Thermo-Controller", all the louver angles are automatically secured horizontally when this function is activated.
- This function is not available if two remote controllers (including a combination of wired controller + wireless controller) are used.

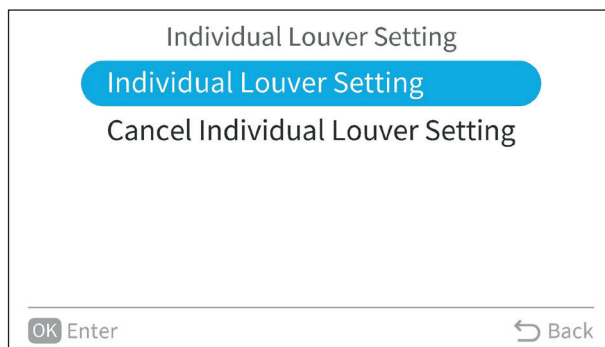
1 Select "Individual Louver Setting" on the "Function Menu" and press "OK".



2 Select "Individual Louver Setting" and press "OK".

NOTE

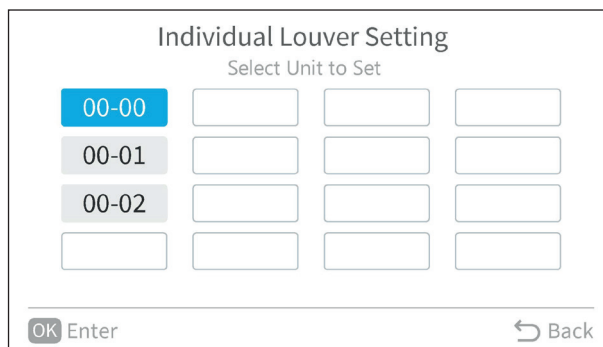
If there is one indoor unit connected with the controller, Step4 is displayed.



- 3 Press "↑", "↓", "←", or "→" to select the indoor unit to change the louver direction, and press "OK".

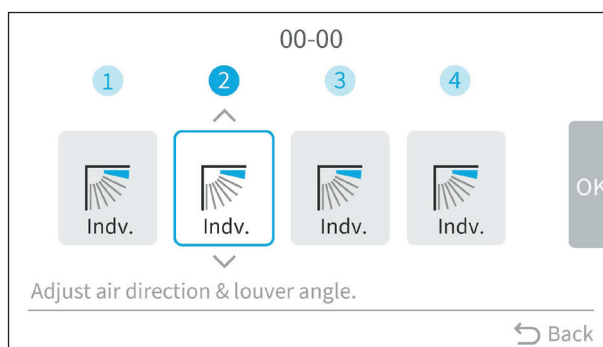
NOTE

The indoor unit displayed on the screen flashes if an individual louver is set.



- 4 Press "←" or "→" and select the louver from 1 to 4.

The selected louver is opened while the unselected louvers are closed.



- 5 Press "↑" or "↓" to select the louver angle and press "OK".

Return to Step3.

The louver angle is changed as follows.

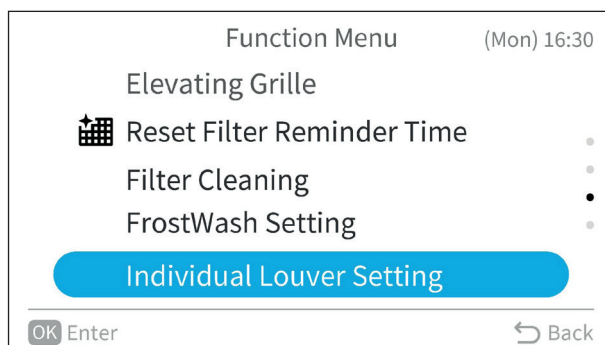


- 6 Ensure that individual "Indv." is turned on at the Louver on the home screen.



3.16 Cancel Individual Louver Setting

- 1 Select "Individual Louver Setting" on the "Function Menu" and press "OK".

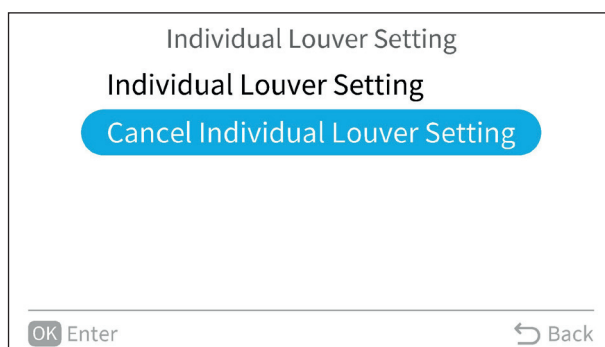


- 2 Select "Cancel Individual Louver Setting" and press "OK".



NOTE

If there is one indoor unit connected with the controller, Step4 is displayed.

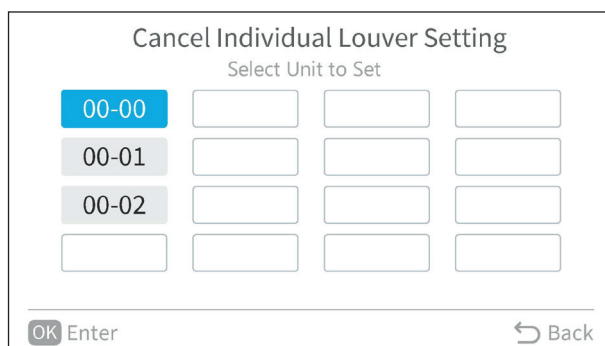


- 3 Press "↑", "↓", "←", or "→" to select the indoor unit to cancel the louver direction, and press "OK".



NOTE

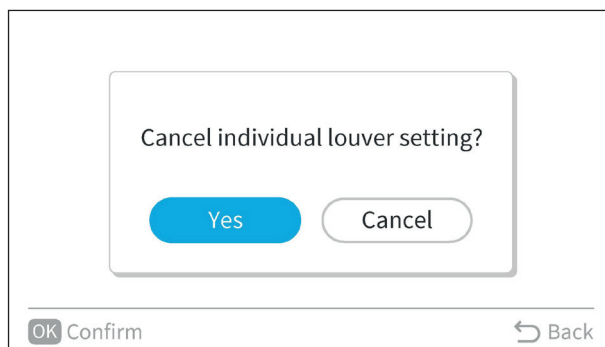
The indoor unit displayed on the screen flashes if an individual louver is set.



- 4 Press “<” or “>” to select “Yes” and press “OK”. Cancel the individual louver setting and return to Step3.

NOTE

All the individual louver settings are cancelled.



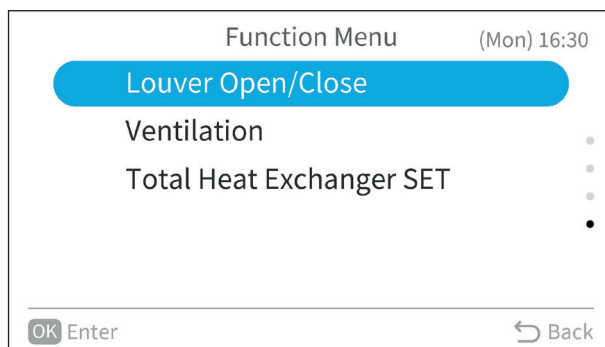
3.17 Louver Open/Close

This function can be used to fully open the air louvers of one specific indoor unit, in order to easily identify this unit on site.

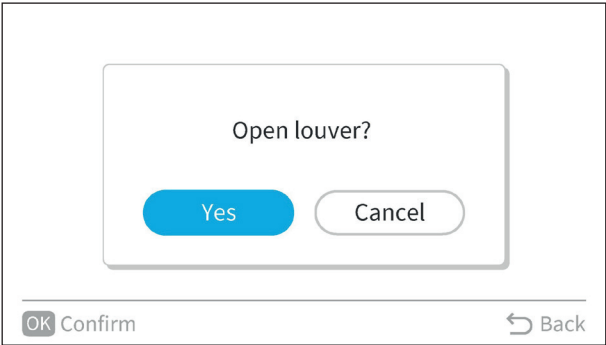
NOTE

- *This function cannot be set when the air conditioner is ON.*
- *This function is invalid depending on the indoor unit type. Refer to the user manual of indoor unit for details.*

- 1 Select “Louver Open/Close” on the “Function Menu” and press “OK”.



2 Press “<” or “>” to select "Yes" and press "OK" to open/close air outlet of indoor units.



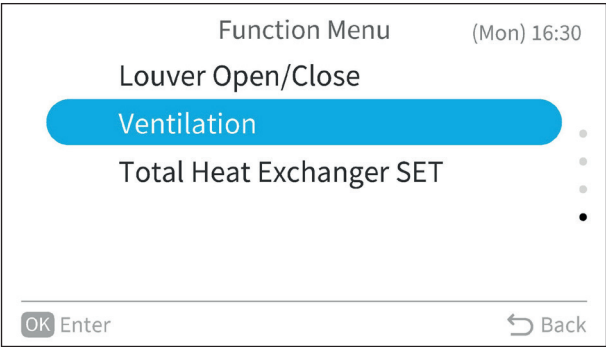
3.18 Ventilation

Operation Mode	Action
A/C	Operate the air conditioner individually.
Ventilation	Operate the total heat exchanger individually.
A/C + Ventilation	Operate the air conditioner and the total heat exchanger together.

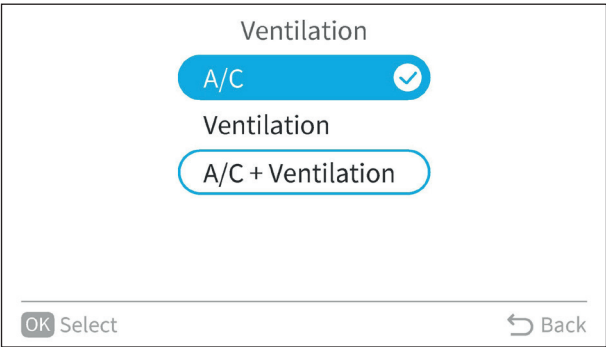
i NOTE

This function is available only when the total heat exchanger is connected.

1 Select “Ventilation” on the “Function Menu” and press “OK”.



2 Press “^” or “v” to select the operation mode and press “OK” to confirm. The item changes as follows: “A/C” ↔ “Ventilation” ↔ “A/C + Ventilation”. Press “>” to return to Function Menu.



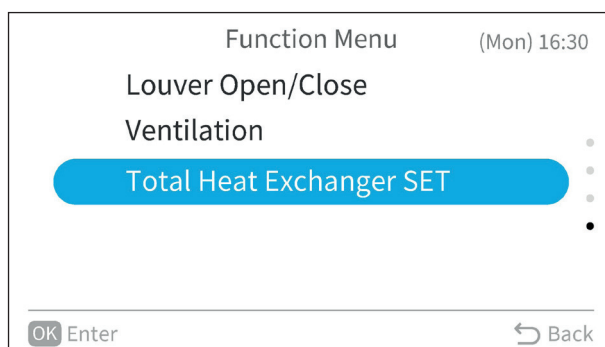
3.19 Total Heat Exchanger Setting

This function is used to change the ventilation mode (Venti. Mode) of the total heat exchanger.

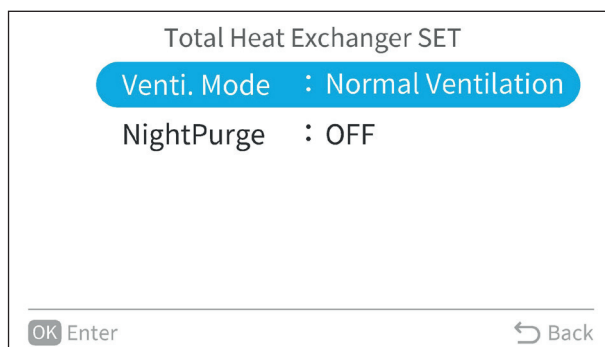
NOTE

- This function is available only when the total heat exchanger is connected.
- This function cannot be set when the air conditioner is ON.

1 Select "Total Heat Exchanger SET" on the "Function Menu" and press "OK".

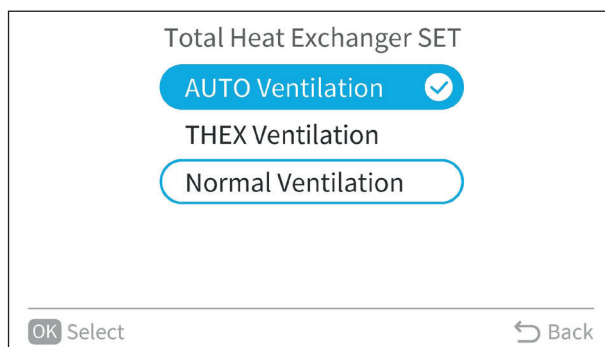


2 Press "▲" or "▼" to select "Venti. Mode" and press "OK".



3 Press "▲" or "▼" to select the operation mode and press "OK" to confirm. The item changes as follows: "AUTO Ventilation" ↔ "THEX Ventilation" ↔ "Normal Ventilation".

Press "↶" to return to Step2.

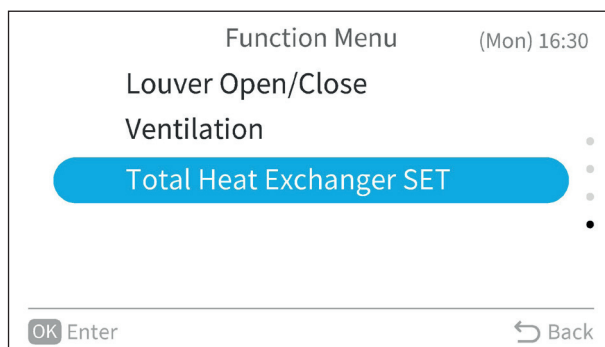


3.19.1 Night Purge

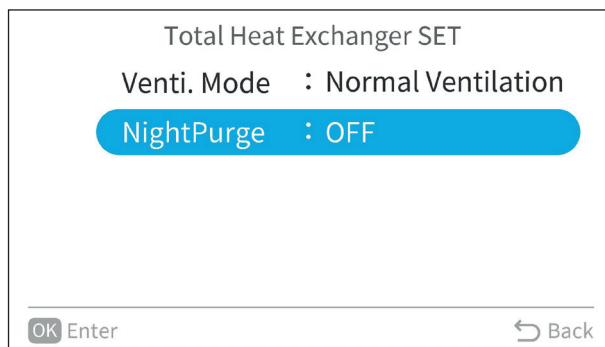
This function is not yet available in current units sold in the Europe market.

When there is a temperature difference between indoor and outdoor, this function can reduce the cooling load on next morning by automatically exhausting the hot air inside the room at night.

- 1 Select "Total Heat Exchanger SET" on the "Function Menu" screen and press "OK".

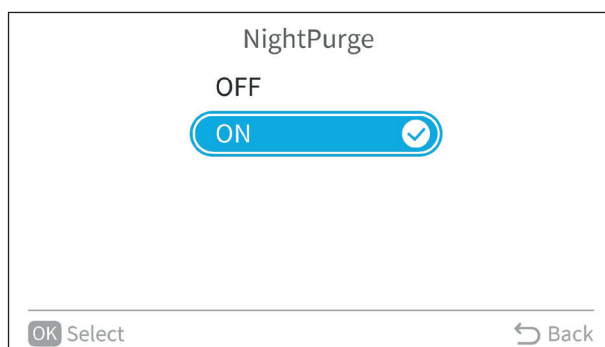


- 2 Press "▲" or "▼" to select "Night Purge" and press "OK".



- 3 Press "▲" or "▼" to select "ON" and press "OK".

Press "↶" to return to Step2.

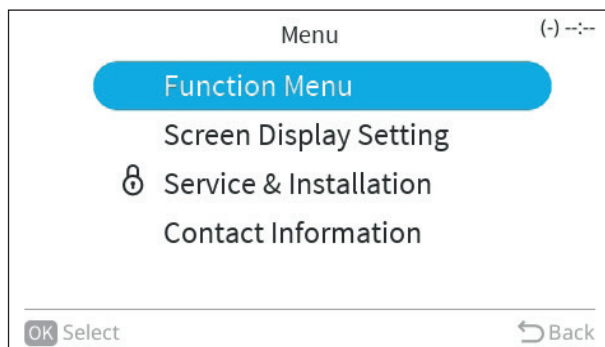


Service & installation menu

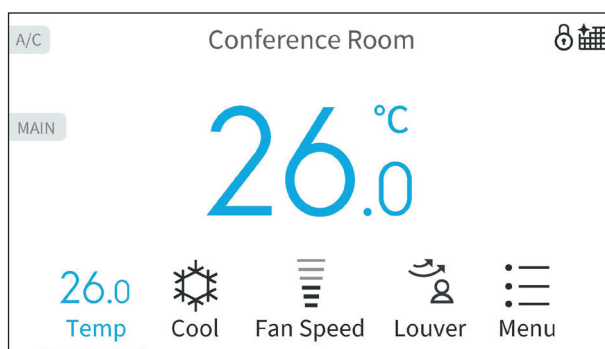
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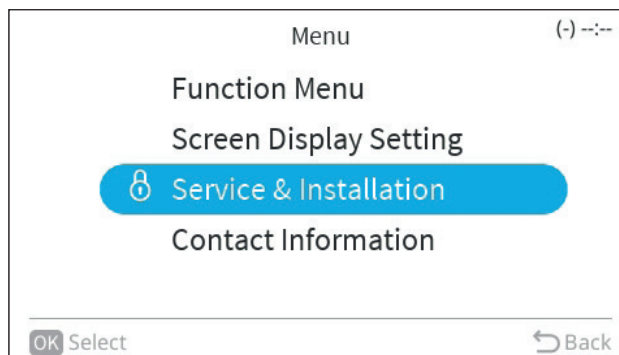
- 1 While the air conditioner is OFF, press “>” to select “Menu” and press “OK”.



- 2 While the air conditioner is ON, press “>” to select “Menu” and display the Menu screen.



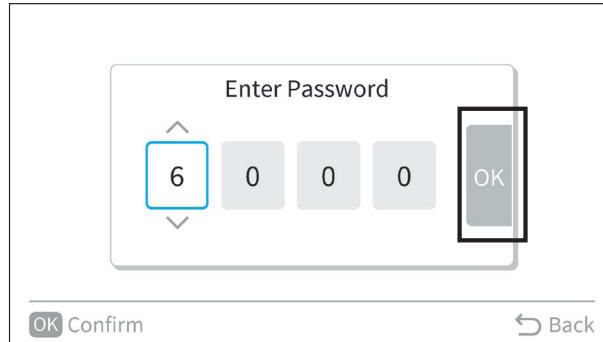
- 3 Select “Service & Installation” and press “OK”.



- 4 Input password by pressing “^”, “v”, “<”, or “>”, select “OK”. Then press “OK”.

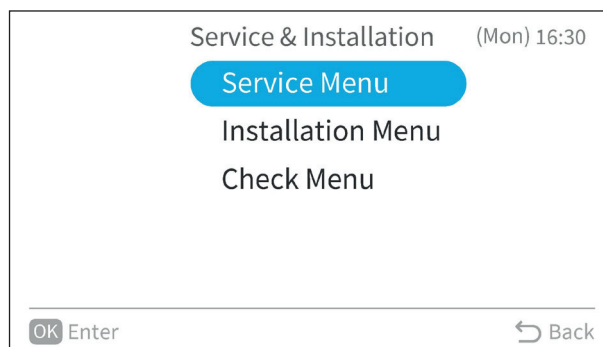
Password is required to prevent unintentional operations.

The default user password is “0000”.



Service & Installation Menu screen is displayed.

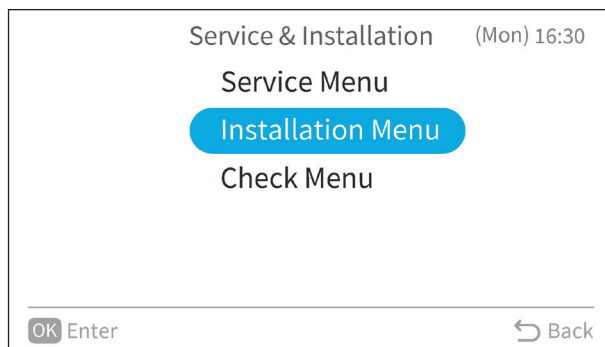
- 5 If Password Input Effective Time is set, the password is cancelled and inputting password is not needed during the set period. See “[4.2.2 Password Setting](#)” for password settings.



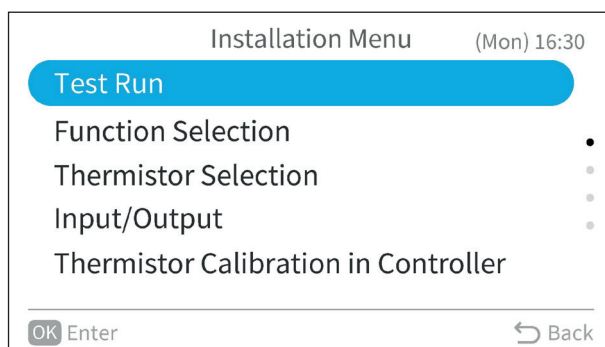
4.1 Installation menu

4.1.1 Test Run

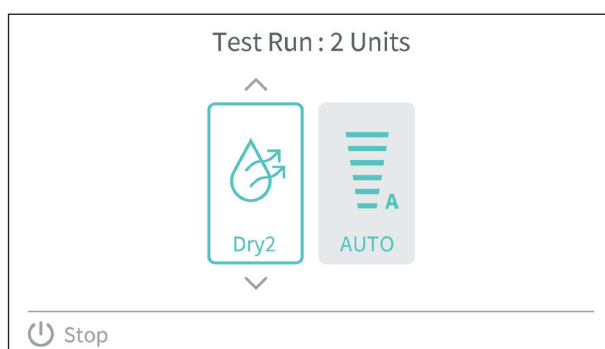
- 1 Select "Installation Menu" and press "OK".



- 2 Select "Test Run" and press "OK".



- 3 The total number of the indoor units connected to the wired controller or to the system is indicated on the screen.



("2 units" is indicated for a twin combination, "3 units" for a triple, and "4 units" for a quad, etc.)

- 4 If the number of indoor units displayed on the screen is not matching with the real quantity of units connected to this controller, follow the procedure below.

Turn OFF the power supply, check the following items and perform the correct connection. (Do not repeat turning ON and OFF within 10 seconds).

- ✓ The power supply to the indoor unit was not turned ON or there is an incorrect wiring issue.
- ✓ There was an incorrect connection issue regarding interconnecting cables between indoor units or of the controller cable.
- ✓ There was an incorrect setting of the rotary switch and DIP switches (the settings were overlapped), on the printed circuit board (PCB) for the indoor unit.

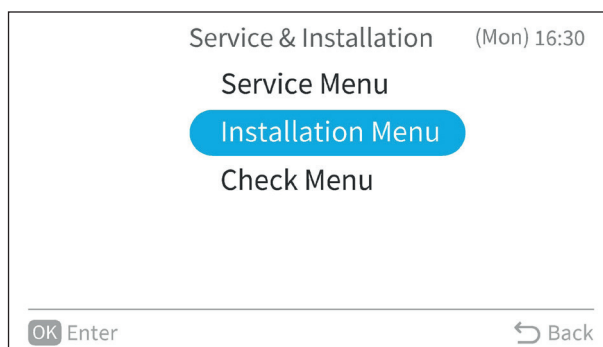
- 5 Cancel "Test Run" Mode

- ✓ When the unit is not in operation, press "↵".
- ✓ When the unit is in operation, press "⏻" (On/Off).

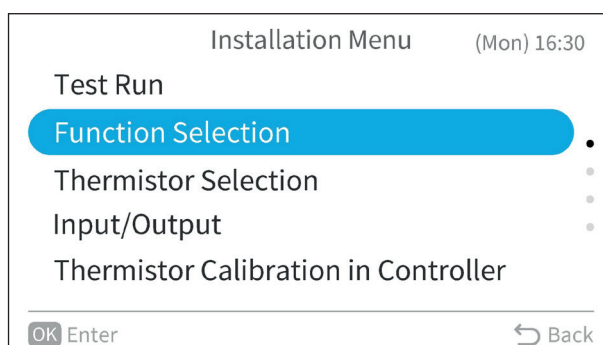
4.1.2 Function selection

Function Selection is set from Installation Menu.

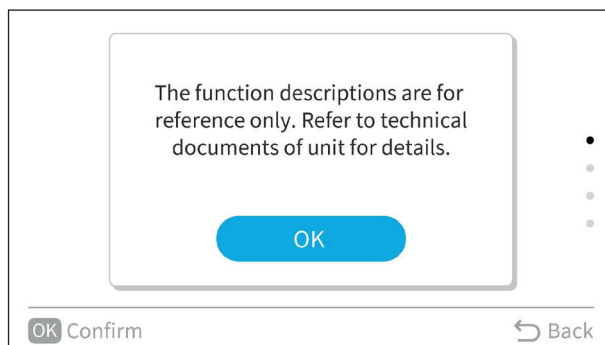
- 1 Select "Installation Menu" and press "OK" .



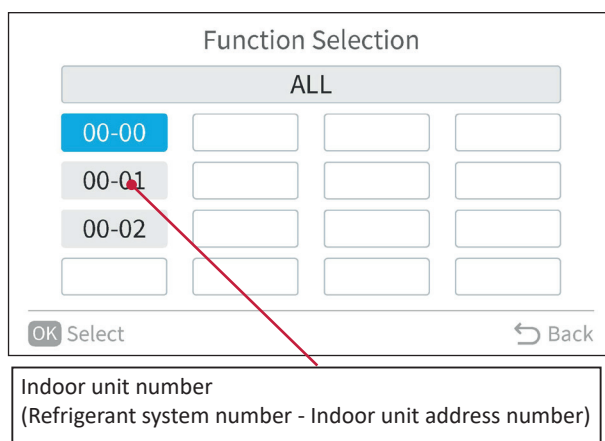
- 2 Select "Function Selection" and press "OK".



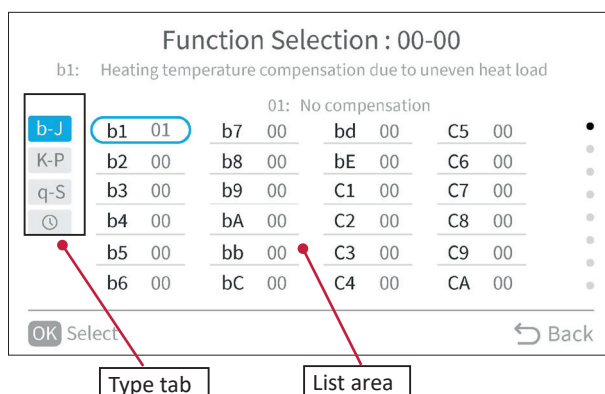
3 Press “OK”.



4 Press “^”, “v”, “<”, or “>” to select the indoor unit to be set and press “OK”.
This screen is not displayed when only one indoor unit is connected to the wired remote controller (the screen in Step 5 is shown).



5 Press “^” or “v” to select the type tab and press “OK”.
→It changes in the order of “b-J” ↔ “K-P” ↔ “q-S” ↔ “⌚”.



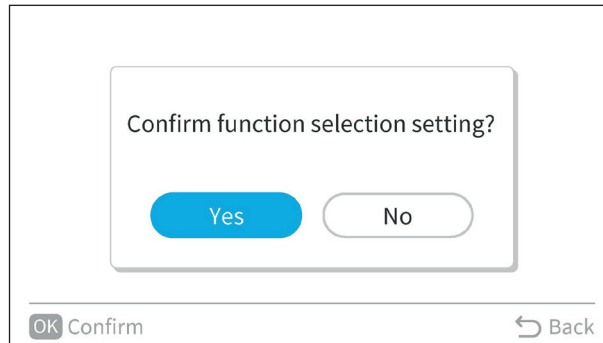
6 Press “^”, “v”, “<”, or “>” to select the item to set from the list area. Press “OK” and press “<” or “>” to change the setting value.

After selecting the setting value, press “↵” to return to the setting item selection mode.

To return to Step 5, press “↵” in the setting item selection mode.

7 To confirm the setting, press “↵” in the tab selection mode.

- 8 Select “Yes” and press “OK” to confirm the setting and return to Step 2.
Select “No” and press “OK” to discard the settings and return to Step 2.
Press “↶” to return to Step 5.



◆ Table A. Optional Setting Items for Function Selection

Element	Optional function	Individual setting	Settings	Setting conditions	Description
b1	Heating temperature compensation Models: All indoor units except RPF(I)-FSN2E	O	00	Normal (factory setting) (Setting Temperature + 4°C)	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. The “02”, “03”, “04” settings may not be available depending on the type of indoor unit.
			01	No compensation(Setting Temperature)	
			02	Setting Temperature + 2°C	
			03	Setting Temperature + 3°C	
			04	Setting Temperature + 1°C	
	Heating temperature compensation Models: RPF(I)-FSN2E	O	00	RPF(I)-FSN2E: Normal (factory setting) (Setting Temperature + 2°C)	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 + 2°C	
b2	Circulation function at heating Thermo-OFF	O	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 at 00 conditions
			01		
b4	Change of filter cleaning period	O	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-FSR(H)M 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)	X	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	X	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)	X	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	

Element	Optional function	Individual setting	Settings	Setting conditions	Description
b8	Automatic COOL/HEAT operation (Not available for models KPI-E4)	X	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)	X	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	X	“- _” permanent	Not available	–
bb	Cooling setting temperature compensation	O	00	No compensation (factory setting)	This function decreases the setting temperature and is used to produce longer cooling periods.
			01	Setting temperature decreased by 1°C	
			02	Setting temperature decreased by 2°C	
bC	Not used	–	00 01	-	Use at 00 conditions
bd	Not used	–	00 01	-	Use at 00 conditions
bE	Not used	–	00 01	-	Use at 00 conditions
C1	Not used	–	00 01	-	Use at 00 conditions
C2	Not available	–	“- _” permanent	-	–
C3	Not used	–	00 01	-	Use at 00 conditions
	Fan stopp delay (Only for DX-Interface, KPI-E4E and KPI-X4E)		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 01	-	Use at 00 conditions

Element	Optional function	Individual setting	Settings	Setting conditions	Description
C5	Static pressure selection	O	00	Standard static pressure (factory setting)	This function is used to change the static pressure of the RPI units from the remote control.
	Models		01	High static pressure	
	RPI(L/H)-FSRE RPI-FSN3(P)E(-f)		02	Low static pressure	
	Increase of fan speed during normal operation (not during heating Thermo-OFF)	O	00	Standard (factory setting)	This function is used to change the fan speed of indoor units installed in high ceilings.
	Models		01	Hi Speed 1	
	RCI-FSR RCIM-FSRE RCD-FSR RPC-FSR RPK-FSR(H)M RPF(I)-FSN2E		02	Hi Speed 2	
	Fan speed setting on the remote controller				
	C5	High 2	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)					
C6	Increase of fan speed at heating Thermo-OFF (Not available for models KPI-E4 and KPI-X4E)	O	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	O	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)		
	CO ₂ sensor enabled (Only for KPI-E4E and KPI-X4E)		00	Sensor non enabled (factory setting)	Via 7-segments display set the option Ct (00: ON/OFF Sensor (Default); 01: 4-20mA 02: 0-10V)
			01	Sensor enabled/activated	

Element	Optional function	Individual setting	Settings	Setting conditions	Description
	Control by the temperature sensor of the remote control switch. ⁽²⁾ The remote control switch shall be installed in a proper place for the correct detection of room temperature by its temperature sensor.	O	00	Control by the air inlet sensor of indoor units (factory setting)	
			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	
C8 ⁽¹⁾	Control sensor when a remote sensor is connected to the THM4 connector in the indoor unit PCB. ⁽³⁾ The remote sensor shall be installed in a proper place for the correct detection of room temperature. Model RPF(I)-FSN2E	O	00, 01, 02	When a remote temperature sensor is connected to THM4 on indoor unit main PCB, this remote temperature sensor is used as control sensor, whichever the setting for C8 (factory setting C8=00)	This function specifies the temperature sensor to be used as control sensor by the indoor unit.
	Control sensor when a remote sensor is connected to the THM4 connector in the indoor unit PCB. ⁽³⁾ The remote sensor shall be installed in a proper place for the correct detection of room temperature.		00, 02	Air temperature control using the average value of the air inlet thermistor and the remote controller sensor (factory setting C8=00) (Air inlet + Remote sensor)/2	
	All indoor units except RPF(I)-FSN2E		01	Air temperature control using the remote sensor	
C9	Not available	—	“_ _” permanent	—	—
CA	Not available	—	“_ _” permanent	—	—
Cb	Selection of forced stoppage logic	X	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		
	High ventilation speed		00	Function disabled (factory setting)	This function sets the unit to run in high fan speed regardless the setting from remote control switch.
	Only for DX-Interface, KPI-E4E and KPI-X4E:		01	Function enabled	

Element	Optional function	Individual setting	Settings		Setting conditions	Description
Cd	Stop of indoor unit fan during cooling Thermo-OFF conditions For model RPI(L/H)-FSRE and RCD-FSR, this function is NOT available.	O	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-ARFG2-E(B)(1-5) temperature sensor. C8 must be set to 01 to use the Cd=01 setting.	
			01	Indoor unit fan is stopped during cooling Thermo-OFF		
CE	Stop of indoor unit fan during heating Thermo-OFF conditions (with remote control switch temperature sensor)	O	00	Fan speed setting during heating Thermo-OFF: Low (factory setting)	The indoor unit uses the PC-ARFG2-E(B)(1-5) temperature sensor to monitor the room temperature when the fan is stopped (heating Thermo-OFF fan stop sequence). C8 must be set to 01 to use the CE=01 setting. Control by remote temperature sensor connected to THM4 is not permitted (use E8 function in that case).	
			01	Indoor unit fan is stopped during heating Thermo-OFF ⁽⁴⁾ (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-FSR RCIM-FSRE RCD-FSR RPC-FSR	O	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) ⁽⁵⁾ (Cannot be set to the lower two steps; lower 2 steps cut off)		
			02	High ceilings (5 steps) ⁽⁵⁾ (Cannot be set the upper two steps; upper 2 steps cut off)		
	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	O	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	—	—	
d3	Management of indoor unit operation after a power supply cut off - option 2	O	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	Fan control (Only for RPI-(4-6)FSR1E)	O	00	Normal control (factory setting)	Use at 00 conditions if no plenum is attached.	
			01	Special control for plenums		

Element	Optional function	Individual setting	Settings		Setting conditions	Description
d5	Prevention of low air outlet temperature in heating mode	O	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 at 00 conditions
			01			
d7	Lower the elevating grille (For RCI-FSR1 indoor unit with P-GP160NAPU)	O	00	Default		This function lowers the elevating grille by the specified distance from the unit.
			01	100 cm		
			02	150 cm		
			03	200 cm		
			04	250 cm		
			05	300 cm		
			06	350 cm		
			07	400 cm		
	Econofresh: Minimum opening angle of the outdoor air (OA) damper	O	00	6° (factory setting)		This function is used to set the minimum opening angle of the damper for fresh outdoor air.
			01	12°		
			02	18°		
			03	24°		
			04	30°		
			05	36°		
			06	42°		
E1	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)		This function lowers the temperature in which the Thermo-OFF operation is engaged under the set value by the specified amount. This prevents the unit from turning on and off the heating process too often, therefore saving energy.
			01	2°C		
			02	4°C		
	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		

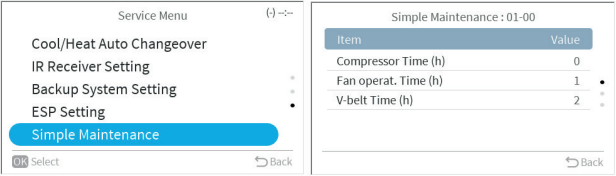
Element	Optional function	Individual setting	Settings		Setting conditions	Description
E2	KPI: Increase of air supply volume	O	00	Disabled function (factory setting)		This function is used to make the room pressure higher or lower than the surrounded room. One of the fans Increases its speed while the other runs according the remote controller. Hi/Me/Lo change 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 for all indoor units except for KPI-E4E and KPI-X4E	–	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 selects which fan will increase the speed (when E2 enables this function).	
			01	Activated for exhaust fan		
E4	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			
	High ventilation after switch ON Only for DX-Interface, KPI-E4E and KPI-X4E:	–	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	O	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)	O	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.	

Element		Optional function	Individual setting	Settings		Setting conditions	Description
E9	Not used		—	00	-		Use at 00 conditions
EA	Not used		—	00	-		Use at 00 conditions
				01			
				02			
Eb	Indoor unit fan control during cooling Thermo-OFF conditions	O		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	O		00	Function disabled (factory setting)		This function is used to force Thermo-ON during 6 minutes when stopping in cooling operation.
				01	Enabled		
Ed	Not used	O		00	-		Use at 00 conditions
				01			
EE	Control in “Automatic” indoor fan speed mode	O		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 2) Models: RCI-FSR(1) RCIM-FSRE RCD-FSR RPC-FSR RPI(L/H)-FSR(1)E RPI-FSN3(P)E(-f) RPK-FSR(H)M	O		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 2 speed.
				01	Function enabled		
F0	Not available	—		“_ _” permanent	—		—

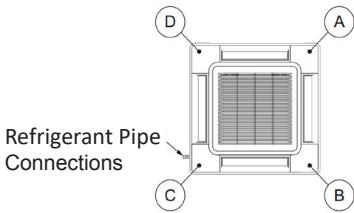
Element	Optional function	Individual setting	Settings		Setting conditions	Description	
F1	Automatic OFF timer setting Models: RCI-FSR(1) RPC-FSR RPK-FSRM RPI(L/H)-FSR(1)E RCD-FSR RCIM-FSRE RPI-FSN3(P)E(-f)	X	00	Function disabled (Factory setting)		This function sets an automatic OFF timer to switch OFF the indoor units controlled by the remote control switch (when the units have been started by remote control).	
			01	1 hour			
			02	2 hours			
			03	3 hours			
			04-24	(04-24) hours			
			0A	30 minutes		(Do not set the values "0C"-"0F" when two remote control switches are used in the same remote control group).	
			0B	90 minutes			
			0C	40 minutes			
			0D	45 minutes			Do not set these when two wired controllers are used.
			0E	50 minutes			
			0F	55 minutes			
				Automatic OFF timer setting Models: RPF(I)-FSN2E	X		00
01	1 hour						
02	2 hours						
03	3 hours						
04-24	(04-24) hours						
0A	30 minutes						
0B	90 minutes						
F2	Remote control primary-secondary setting	X	00	Primary (main remote control) (Factory setting)		This function is used to define which remote control switch is used as primary or secondary, when two remote controllers are connected to one indoor unit.	
			01	Secondary (sub remote control)			
F3	Automatic reset of setting temperature ⁽⁶⁾	X	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	X	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			

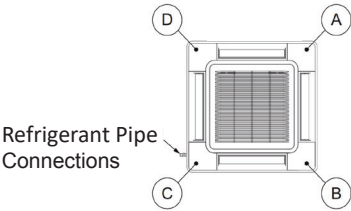
Element	Optional function	Individual setting	Settings		Setting conditions	Description
F5	Automatic reset temperature for cooling	X	19	19°C		This function defines the default temperature set point for the automatic reset function F3 in FAN/COOL/DRY modes.
			20	20°C		
			21	21°C		
			.	.		
			.	.		
			.	.		
			24	24°C		
			25	25°C (factory setting)		
			26	26°C		
			.	.		
			.	.		
			.	.		
			28	28°C		
			29	29°C		
F6	Automatic reset temperature for heating	X	30	30°C		This function defines the default temperature set point for the automatic reset function F3 in HEAT mode.
			17	17°C		
			18	18°C		
			.	.		
			.	.		
			.	.		
			20	20°C		
			21	21°C (factory setting)		
			25	25°C		
			.	.		
			.	.		
			.	.		
			28	28°C		
			29	29°C		
F7	Prevention of operation stoppage due to wrong operation of the remote controller	X	00	Function disabled (factory setting)		Operation is stopped by pressing the run/stop switch for 3 seconds, avoiding turning on or off the unit by accidentally pushing the run/stop switch.
			01	Long ON/OFF button push enabled		
F8	Lock function for operation mode selection	X	00	Function disabled		This function is used to prevent changes to the operation mode.
			01	Function enabled (factory setting)		
F9	Lock function for temperature setting	X	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	X	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	X	00	Function disabled		This function is used to prevent changes to the automatic louver operation.
			01	Function enabled (factory setting)		

Element	Optional function	Individual setting	Settings	Setting conditions	Description
FC	Lower limit of setting temperature for cooling (Minimum value of setting temperature allowed in cooling)	X	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 27°C)	
			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)	X	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 20°C (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	O	00	-	Use as 00 conditions
			01		
H1	Not used	-	00	-	Use at 00 conditions
			01		
H2	Indication of hot start (No Indication of operation limitation)	X	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	Not used	-	00	-	Use at 00 conditions
			01 / 02		
H4	Not Used for all indoor units (except KPI)	-	00	-	Use at 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	
J1	Not used	-	02	Air conditioning + ventilation	
			00	-	
			01	-	
J2	Not used	-	00	-	Use at 00 conditions
			01		

Element	Optional function	Individual setting	Settings	Setting conditions	Description
J3	Colour of the run indicator	X	00 Green (factory setting) 01 Red	—	
J4	Central lock override of start/stop prohibition on the remote controller	X	00 Start/Stop allowed (Factory setting) Start/Stop not allowed 01  DANGER Blocking of Start/Stop shall never be set due to safety concerns. 02 Only Stop allowed		When there is a remote control prohibition from a central control device, this function overrides this prohibition allowing the operation of the Run/Stop button of the remote control switch. Models: RPF(I)-FSN2E Not used. Use at 00 conditions
J5	Not used	-	00 - 01 -		Use at 00 conditions
J6	Error Sound	X	00 Once 01 Continuous		This functions changes de duration of the sound emitted by the controller in the case of an operation error.
J7	Not used	—	00 - 01 -		Use at 00 conditions
J8	Eco-operation ⁽⁷⁾	X	00 Function disabled (factory setting) 01 Function enabled		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
J9	Not used	-	00 - 01 -		Use at 00 conditions
JA	Display of "Simple maintenance display" menu	O	00 Function disabled (factory setting) 01 Function enabled		Enables the “Simple maintenance display” menu.  Models: RPF(I)-FSN2E Not available, use at 00 conditions
Jb	Not used	—	00 - 01 -		Use at 00 conditions

Element	Optional function	Individual setting	Settings		Setting conditions	Description
Jc	Calibration of remote controller sensor	X	00	0°C		
			01	-0.5°C		
			02	-1.0°C		
			03	-1.5°C		
			04	-2.0°C		
			05	-2.5°C		
			06	-3.0°C		
			07	-3.5°C		
			08	+0.5°C		
			09	+1.0°C		
			10	+1.5°C		
			11	+2.0°C		
			12	+2.5°C		
			13	+3.0°C		
			14	+3.5°C		
			15	0°C		
Jd	Upper limit for cooling temperature setting	O	00	30°C		
			01	29°C		
			02	28°C		
			03	27°C		
			04	26°C		
			05	25°C		
			06	24°C		
			07	23°C		
			08	22°C		
			09	21°C		
			10	20°C		
JE	Lower limit for heating temperature setting	O	00	17°C		
			01	18°C		
			02	19°C		
			03	20°C		
			04	21°C		
			05	22°C		
			06	23°C		
			07	24°C		
			08	25°C		
			09	26°C		
			10	27°C		
			11	28°C		
			12	29°C		

Element		Optional function	Individual setting	Settings		Setting conditions	Description	
K1	Not used		-	00	-		Use at 00 conditions	
K2	Not used		-	01	-		Use at 00 conditions	
K3	Not used		-	00	-		Use at 00 conditions	
K4	Not used		-	01	-		Use at 00 conditions	
K5	Detection level of the motion sensor kit	O		00	Standard (factory setting)	Models: RPF(I)-FSN2E Not available, use at 00 conditions.		
				01	High	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.		
				02	Low	Detailed information about the operation of the motion sensor can be found in the technical documentation of the indoor units.		
K6	Selection of allowed operation modes when the control sensor of the indoor unit is set by C8 function	O		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			
K7	Radiant Temperature sensor detection level (for P-AP160NAE2 panel)	O		00	Factory setting	This function is used to adjust the measured temperature value by the radiation sensor. Only available for units with radiant sensor		
				01	Upper (+2°C)			
				02	Lower (-2°C)			
				03	No change			
K8	Not used	-		00	-		Use at 00 conditions	
K9	Not used	-		01	-		Use at 00 conditions	
KA	Not used	-		00	-		Use at 00 conditions	
L1	Setting Position of Motion Sensor (Only for RCI with P-AP160NAE2 corner)	O		00	A	The setting of this function is important to position the motion sensor in the same orientation as the louvers. The panel cannot be attached to the C corner.		
				01	B			
				02	-			
				03	D			



Element		Optional function	Individual setting	Settings		Setting conditions	Description
L2	Not used		-	00	-		Use at 00 conditions
				01			
				02			
				03			
L3	Operation of the louvers in energy-saving Thermo-OFF (Cooling / Dry mode)	O	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			
L4	Fan acceleration in energy-saving Thermo-OFF (cooling mode)	O	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	O	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 (Humidifier blow control On/Off)	O		00	Function disabled (factory setting)		—
				01	Function enabled		
Lb	Not used (Humidifier blow control time setting)	O		00	4 hours ON 30 min OFF		—
				01	30 min ON 10 min OFF		
P1	Setting temperature in 0.5°C steps	X		00	Enabled (0.5°C steps) (factory setting)		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”).
				01	Disabled (1°C steps)		

Element		Optional function	Individual setting	Settings		Setting conditions	Description
P2	Not used		-	00	-		Use at 00 conditions
				01			
P3	Temperature sensor displayed	X		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 sensor (RCS)		
				03	Remote temperature sensor (connected to THM4 on indoor unit main PCB) (THM4)		
P4	Display of sensor temperature	X		00	Hidden		This function is used to display the temperature of the sensor selected with function P3.
				01	Shown		
P5	Display of setting temperature when operation mode is Fan	X		00	Shown		This function is used to hide the display of setting temperature during operation in fan mode.
				01	Hidden		
P6	Not used	-		00	-		Use at 00 conditions
				01			
P7	Prohibition of menu screen transition	X		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 (Maintenance explanation display)	X		00	Function enabled (factory setting)	-	
				01	Function disabled		
P9	Not used (Alarm explanation display)	X		00	Function enabled (factory setting)	-	
				01	Function disabled		
PA	Daylight saving time	X		00	1 hour		This function is used to set the amount of adjustment when daylight saving time is applied.
				01	2 hours		
Pb	Not used	-		00	-		Use at 00 conditions
				01			
PC	Not used	-		00	-		Use at 00 conditions
				01			
q1	Not used	-		00	-		Use at 00 conditions
				01			
q2	Not used	-		-	-		Not used
q3	Not used	-		-	-		Not used
q4	Not used	-		-	-		Not used
q5	Not used	-		-	-		Not used
q6	Not used	-		00	-		Use at 00 conditions
				01			
q7	Not used	-		00	-		Use at 00 conditions
				01			
q8	Not used	-		00	-		Use at 00 conditions
				01			
q9	Not used	-		00	-		Use at 00 conditions
				01			
qA	Not used	-		00	-		Use at 00 conditions
				01			

Element	Optional function	Individual setting	Settings		Setting conditions	Description
qb	Operation mode with setback	X	00	Disabled		Operation modes in which setback operation is activated to keep a minimum comfort in the room while it is not occupied.
			01	Cooling		
			02	Heating		
			03	Cooling/Heating		
qC	Temperature differential for the setback function	X	00	2.0°C		Target temperatures for both cooling and heating operation are determined versus a temperature to start setback operation (rE, rF) Target temperature calculation: Target temperature in cooling mode: rF - qC (°C) Target temperature in heating mode: rE + qC (°C)
			01	3.0°C		
			02	4.0°C		
			03	5.0°C		
			04	1.0°C		
qd	Minimum stop time of setback	X	00	10 minutes		To avoid the frequent activation of setback operation, a minimum off-time shall pass from the end of setback operation until the beginning of the following setback operation. Even if room temperature reaches the setpoint to start setback operation, setback operation does not start until the minimum off-time has expired.
			01	20 minutes		
			02	30 minutes		
			03	40 minutes		
			04	50 minutes		
			05	60 minutes		
			06	70 minutes		
			07	80 minutes		
			08	90 minutes		
			09	100 minutes		
			10	110 minutes		
			11	120 minutes		
qE	Setback mode	X	00	Always		When selecting “01: Input”, it is necessary to set up one input contact (i1 or i2) with the setback function “09”. This operation has to be done in the input/output setting menu of the remote controller. When selecting “02: Schedule” or “03: Manual”, additional settings are required.
			01	Input		
			02	Schedule		
			03	Manual		
qF	Operation state after the end of setback operation	X	00	Stop		Operation state to switch to upon the end of setback duration.
			01	Run		
			02	Operation state before the beginning of setback		
r1	Dual setpoint	X	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	X	0.5	0.5°C		This function can only be set when function r1 is set to 01.
			1.0	1.0°C		
			1.5	1.5°C		
			2.0	2.0°C		
			2.5	2.5°C		
			3.0	3.0°C		

Element	Optional function	Individual setting	Settings		Setting conditions	Description
r3	Not used	-	0.5	-		Not used
			1.0			
			1.5			
			2.0			
			2.5			
			3.0			
			3.5			
			4.0			
			4.5			
			5.0			
			5.5			
r4	Enable/Not used (Enable/Disable Auto-FrostWash 2) Auto-FrostWash 2	X	00	-		Use at 00 conditions
			01			
r5	Not used	-	00	-		Use at 00 conditions
			01			
r6	FrostWash Manual Setting	X	00	Allow		If r6 is set to 1, in any case, users cannot operate “Start FrostWash” button of FrostWash Setting Menu.
			01	Prohibit		
r7	FrostWash Automatic Setting	X	00	Allow		If r7 is set to 1, in any case, users cannot operate or change “Enable/Disable Auto FrostWash” “Set Frost Wash Intervals” “Set Auto FrostWash Schedule” of the FrostWash Setting Menu.
			01	Prohibit		
r8	Enable/Disable Auto-FrostWash	X	00	Allow		Position 00 enables the automatic FrostWash function.
			01	Prohibit		
r9	Remote control prohibition during Setback operation	–	00	Start/Stop allowed (Factory setting)		Manual run/stop from the remote controller can be disabled during setback operation.
			01	Start/Stop not allowed  DANGER <i>Blocking of Start/Stop shall never be set due to safety concerns.</i>		
			02	Only Stop allowed		This function is fixed to 00 (Disabled) when function qE is set to 00 (Always).
rA	FrostWash interval settings	X	00	100h		Configure how often the FrostWash procedure is engaged.
			01	200h		
			02	400h		
			03	50h		
			04	100h		
			05	100h		
			06	100h		
			07	100h		

Element	Optional function	Individual setting	Settings		Setting conditions	Description
rb	Minimum operation time to allow the change of operation mode in auto cooling/heating mode with dual set point	X	00	Disabled		This function is used to define a minimum time of operation in a given mode, in order to avoid too frequent changes of operation mode. Operation mode does not change until the minimum transition time passes, even if the room temperature reaches the setpoint to shift to the other operation mode.
			01	10 minutes		
			02	20 minutes		
			03	30 minutes		
			04	40 minutes		
			05	50 minutes		
			06	60 minutes		
			07	70 minutes		
			08	80 minutes		
			09	90 minutes		
			10	100 minutes		
			11	110 minutes		
			12	120 minutes		
rc	Maximum outdoor temperature to allow operation mode switch to heating in auto cooling/heating with dual set point	X	00	Disabled		If outdoor ambient temperature is higher than rc, there is no mode transition to heating in automatic cooling/heating operation mode, even if room temperature reaches the setpoint to switch operation mode from cooling to heating.
			01	20.0°C		
			02	21.0°C		
			03	22.0°C		
			.	.		
			.	.		
			.	.		
			21	40.0°C		
			22	0.0°C		
			23	1.0°C		
			24	2.0°C		
			.	.		
			.	.		
			.	.		
rd	Minimum outdoor temperature to allow operation mode switch to cooling in auto cooling/heating with dual set point	X	41	19.0°C		If outdoor ambient temperature is lower than rd, there is no mode transition to cooling in automatic cooling/heating operation mode, even if room temperature reaches the setpoint to switch operation mode from heating to cooling.
			00	Disabled		
			01	10.0°C		
			02	11.0°C		
			03	12.0°C		
			.	.		
			.	.		
			.	.		
			31	40.0°C		
			32	-20.0°C		
			33	-19.0°C		
			34	-18.0°C		
			.	.		
			.	.		
			.	.		
			61	9.0°C		

Element	Optional function	Individual setting	Settings		Setting conditions	Description
rE	Temperature for the beginning of heating in setback	X	00	15.0°C		If room temperature becomes lower than this setting, indoor unit operation is resumed in heating mode by the setback function.
			01	16.0°C		
			02	17.0°C		
			03	18.0°C		
			04	19.0°C		
			05	10.0°C		
			06	11.0°C		
			07	12.0°C		
			08	13.0°C		
			09	14.0°C		
rF	Temperature for the beginning of cooling in setback	X	00	26.0°C		If room temperature becomes higher than this setting, indoor unit operation is resumed in cooling mode by the setback function.
			01	27.0°C		
			02	28.0°C		
			03	29.0°C		
			04	30.0°C		
			05	31.0°C		
			06	32.0°C		
			07	33.0°C		
			08	34.0°C		
			09	35.0°C		
S1	Not used (Econo outside air high humidity control)	X	00	Function disabled (factory setting)	Use at 00 conditions	
			01	Function enabled		
S2	Not used (Not used24-hour ventilation control)	X	00	Function disabled (factory setting)	Use at 00 conditions	
			01	Function enabled		
S3	Not used (NightPurge control)	X	00	Function disabled (factory setting)	Use at 00 conditions	
			01	Function enabled		
S4	Not used (Fan control based on CO2 sensor)	X	00	Function disabled (factory setting)	Use at 00 conditions	
			01	Function enabled		
S5	Not used (Rapid ventilation control at the start of operation)	X	00	Function disabled (factory setting)	Use at 00 conditions	
			01	Function enabled		
S6	Not used (Humidifier drying operation)	X	00	90 min	Use at 00 conditions	
			01	180 min		
			02	Function disabled		
			03	03		

Element	Optional function	Individual setting	Settings		Setting conditions	Description
S7	Not used (Suction humidity level setting)	X	00	Function disabled (factory setting)		
			01	High		
			02	Med		
			03	Low		
			04	-		
			05	-		
			06	-		
			07	-		
S8	Not used (Suction humidity control setting)	X	00	Standard		
			01	High Humidity		
			02	Low Humidity		
			03	-		
			04	-		
			05	-		
			06	-		
			07	-		
			08	-		
			09	-		
			10	-		
			11	-		
			12	-		
			13	-		
			14	-		
			15	-		

- i*

NOTE
- *O: allows for individual setting.*
 - *X: the setting is made for all outdoor units.*
 - *—: not used.*
 - ⁽¹⁾ *When J1 is set as activated function, the room temperature indication is the sensor value set at “C8”.*
 - ⁽²⁾ *The Remote Control Switch shall be installed in a proper place for the correct detection of room temperature by its temperature sensor.*
 - ⁽³⁾ *The Remote Sensor shall be installed in a proper place for the correct detection of room temperature.*
 - ⁽⁴⁾ *In case that automatic louver is set, the louver will keep operating in both thermo-ON and thermo-OFF condition.*
 - ⁽⁵⁾ *00 standard (7-step operation); 01 draft prevention (cannot be set to the lower two steps); 02 High ceilings (cannot be set the upper two steps).*
 - ⁽⁶⁾ *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.*

- ⁽⁷⁾ When the unit is restarted by the remote control switch, the temperature automatically changes to the setting temperature of "F5" or "F6".
- On modifying the "EF" (air outlet louver angle change) setting, restore the power supply or allow the automatic louver to make a full cycle in automatic mode to apply the optional setting.
- The changes to the optional function settings must be done after 3 minutes have passed after startup.
- It is recommended to keep track of the changes made to optional function settings, for further reference.
- The optional settings are different according to the indoor and outdoor unit models. Check to ensure that the unit has the optional setting or not.
- The optional functions with "X" mark at the individual setting column can change the condition only when "All Rooms" is set.
- The following optional functions are disable when RPI Unit with Econofresh are installed: b7, bA, bd, bE, C1, C2, C3, C9, CA, Cd, CF, d6, E3, E5, E7, E9, EA, FE, FF, H1, H3, H4, J2, J4, J7, J8, J9, JA, JB, K1, K2, K3, K4, K5.

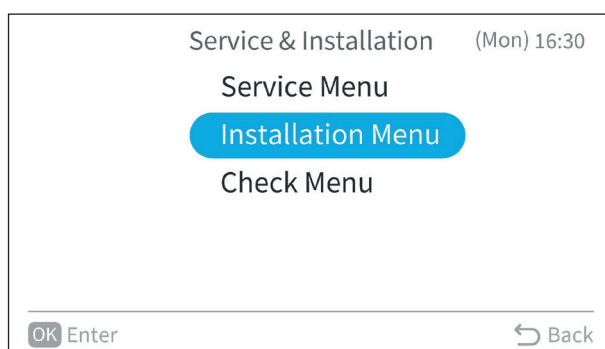
4.1.3 Thermistor Selection

This function is used to control the indoor temperature using remote controller sensor instead of Inlet Air Thermistor in the indoor unit.

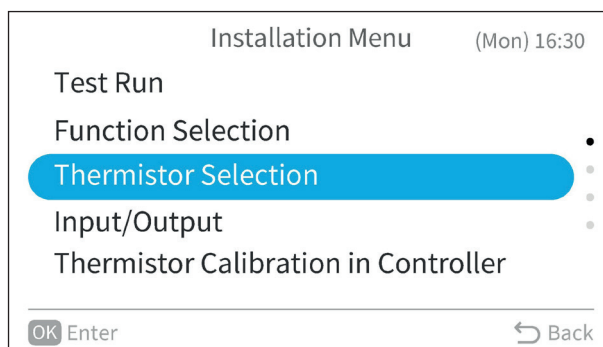
NOTE

- *Even if remote controller sensor controls the indoor temperature, the temperature of Inlet Air Thermistor in the indoor unit is used for the protection control such as frost prevention related to Inlet Air Thermistor.*
- *When remote controller sensor controls the indoor temperature and the abnormal temperature is detected due to a failure such as a malfunction of remote controller sensor, the control automatically switches to Inlet Air Thermistor in the indoor unit.*
- *To use remote controller sensor, install the wired remote controller where:*
 - » *The average room temperature can be detected.*
 - » *The remote controller is not exposed to direct sunshine or direct light.*
 - » *The unit is not close proximity to a heat source.*
 - » *The wired remote controller is not affected by the outside air due to opening or closing the door and so forth.*
- *If two wired remote controllers are used as the main and sub, only remote controller sensor of the main remote controller is available.*
- *This function is not effective when using the remote temperature sensor (connected to THM4 on indoor unit main PCB). The remote temperature sensor is prioritized excluding outside air processing air conditioners.*

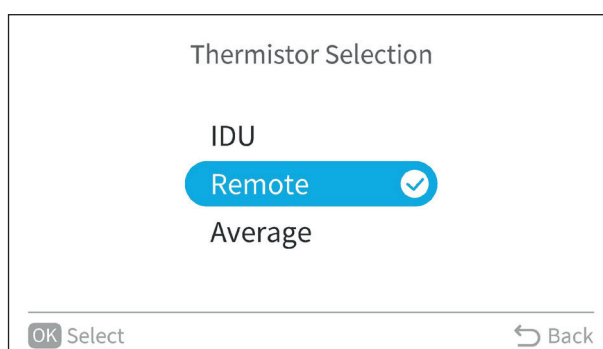
- 1 Select "Installation Menu" on the Service & Installation screen and press "OK".



2 Select “Thermistor Selection” setting and press “OK”.



3 If “^” or “v” is pressed, the setting items are selected in the following order: “IDU” ↔ “Remote” ↔ “Average”. Select the setting item and press “OK” to confirm the setting.



Select:

- “Remote” to control the indoor unit with the remote controller sensor.
- “IDU” to control the unit with its air inlet sensor.
- “Average” to control the unit with the average value of the air inlet sensor and the remote controller sensor.

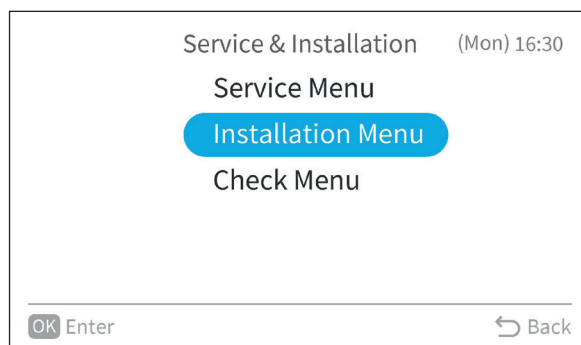
NOTE

This setting and C8 setting in function selection menu have the same impact. Setting a value in the thermistor selection menu automatically updates the value of the value of parameter C8 in the function selection menu and vice versa (refer to element C8 at “Table A. Optional Setting Items for Function Selection” for details).

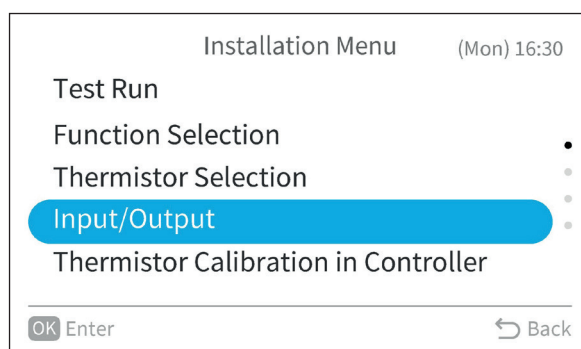
4 Press “↶” to return to the “Installation Menu” screen.

4.1.4 Input / Output Setting

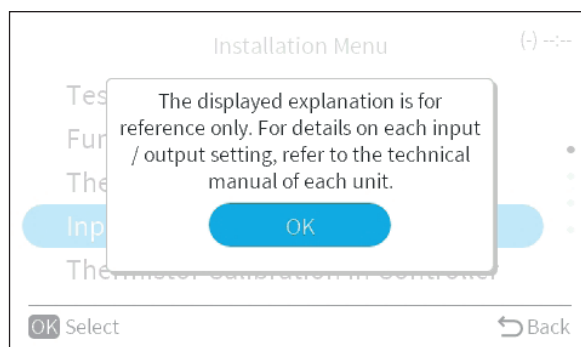
- 1 Select "Installation Menu" on the Service & Installation screen and press "OK".



- 2 Select "Input/Output" setting and press "OK".



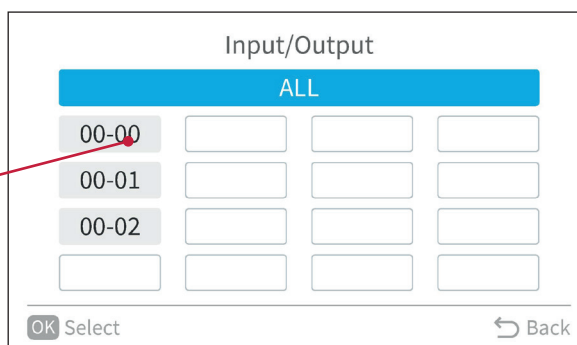
- 3 A screen informing about the displayed information is shown. Press "OK":



- 4 Select the indoor unit by pressing "^", "v", "<", or ">" and press "OK".

This screen is NOT displayed when only one indoor unit is connected with the controller. In this case, "Step4" is displayed.

Indoor unit number
(Refrigerant system number - Indoor unit Address)



- 5 Press “^” or “v” to select the item.
- 6 Press “<” or “>” to change the setting.

Input/Output : All		
01:Room Thermostat (for cooling)		
Item	Setting	Connector
Input 1	< 01:Room Thermostat... >	CN3 1-2
Input 2	00:Not set	CN3 2-3
Output1	00:Not set	CN7 1-2
Output2	00:Not set	CN7 1-3
Output3	00:Not set	CN8 1-2
OK Select		Back

When moving between the different inputs and outputs, a summary description of each function is displayed

- 7 Press “OK” and the confirmation screen is displayed.
- 8 Select “Yes” and press “OK” to confirm the setting and the screen returns to Step2.

If “Cancel” is selected, the setting is cancelled and the screen returns to Step2.

If there is more than one indoor units connected to the remote controller, the screen returns to Step3.

Press “↶” to return to Step4.

Input/Output : All		
00:Not set		
Item	Setting	Connector
Input 1	< 00:Not set >	CN3 1-2
Input 2	00:Not set	CN3 2-3
Output1	00:Not set	CN7 1-2
Output2	00:Not set	CN7 1-3
Output3	00:Not set	CN8 1-2
OK Select		Back

◆ Input and Output Number Display and Connectors

Input Number Display	Port	Factory Setting	
Input/Output Indication		Setting Item	Setting 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

◆ Input and Output Settings and Display Codes

Code Indicated	Input	Code Indicated	Output
00	Not set	00	Not set
01	Room Thermostat (for Cooling)	01	Operation
02	Room Thermostat (for Heating)	02	Alarm
03	Remote ON/OFF 1 (Level)	03	Cooling
04	Remote ON/OFF 2 (Operation)	04	Thermo-ON for Cooling
05	Remote ON/OFF 2 (Stoppage)	05	Heating
06	Forbidding Remote Control after Manual Stoppage	06	Thermo-ON for Heating
07	Remote Cooling / Heating Change	07	Not set
09	Setback Operation		

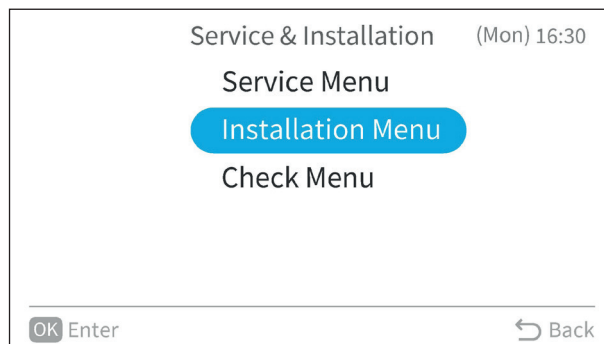
NOTE

- Change the optional setting after waiting at least three minutes elapsed time after start-up.
- 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.

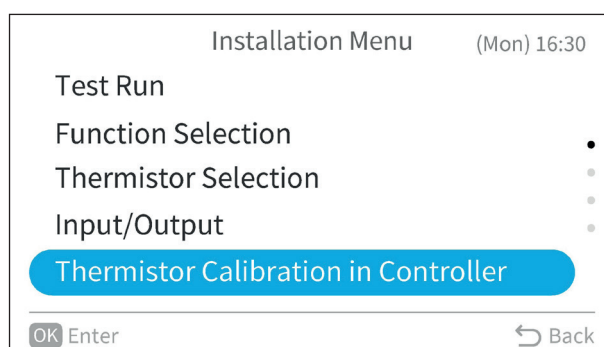
4.1.5 Thermistor Calibration in Controller

This function is used to calibrate the temperature sensor embedded into the wired remote controller. The temperature compensation value can be set in 0.5°C increments within a range of $\pm 3.5^{\circ}\text{C}$.

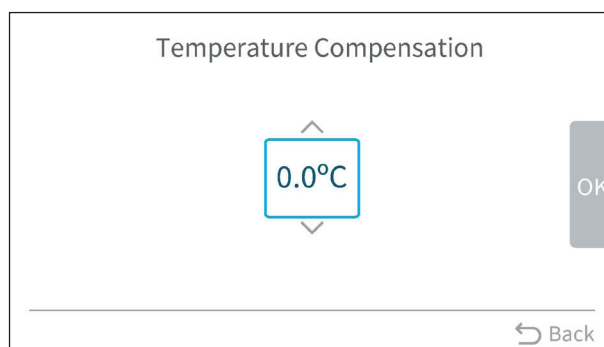
- 1 Select "Installation Menu" on the Service & Installation screen and press "OK".



- 2 Select "Thermistor Calibration in Controller" setting and press "OK".



- 3 Select the temperature compensation value by pressing "↑", "↓" and press "OK".

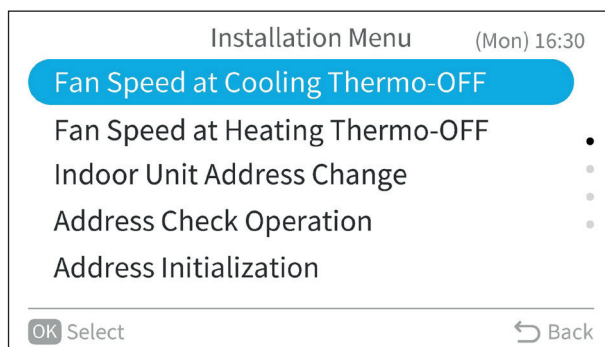


- 4 Press "<" or ">" to select "OK ". Press "OK", the screen returns to the "Installation Menu".

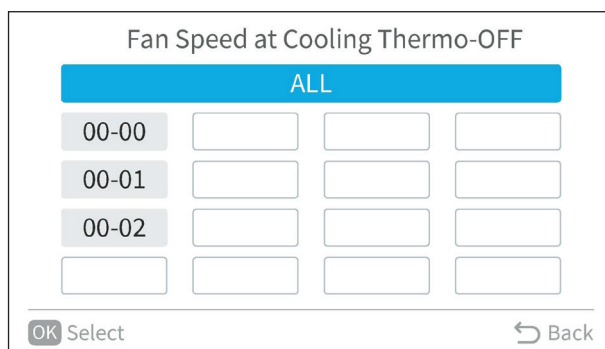
4.1.6 Fan Speed at Cooling Thermo-OFF

This function is used to set the fan speed of the indoor unit at Cooling Thermo-OFF.

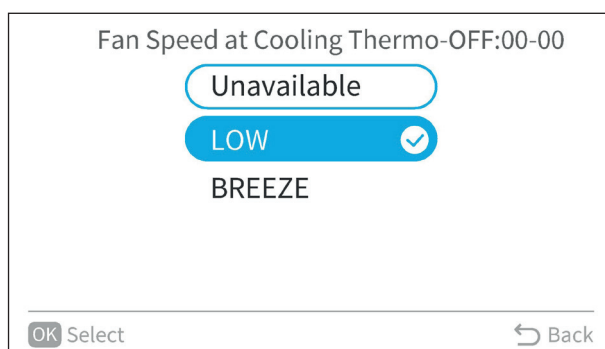
- 1 Select "Fan Speed at Cooling Thermo-OFF" on the "Installation Menu" screen and press "OK".



- 2 Press "↑", "↓", "←" or "→" to select the indoor unit. Press "OK". If there is only one indoor unit connected to the wired remote controller, this screen is not displayed (the Step3 screen is shown).



- 3 If "↑" or "↓" is pressed, the fan speed is selected in the following order: "Unavailable" ↔ "Low" ↔ "BREEZE". Select the fan speed and press "OK" to confirm the setting.



- 4 Press "↶" to return to the "Installation Menu" screen.

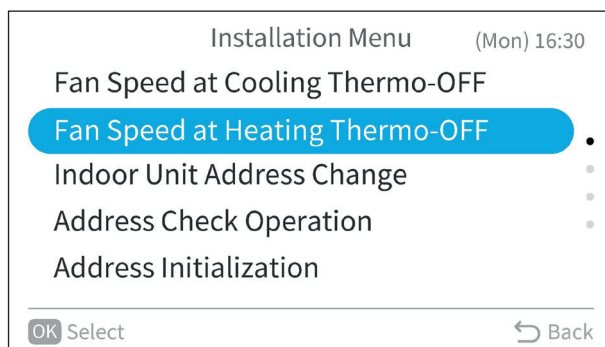
NOTE

- This menu is a shortcut to set the optional function setting Eb.
- This menu is not allowing to stop the fan during Cooling Thermo-OFF. Refer to the optional function parameters Cd for such option.

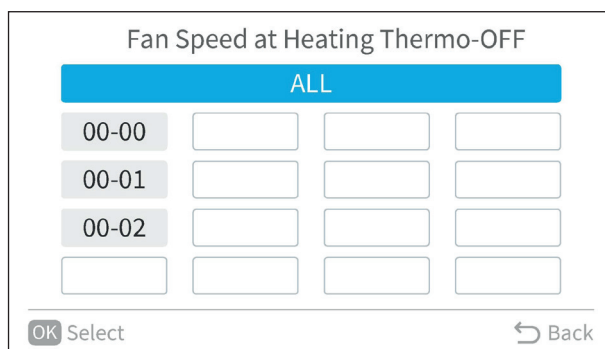
4.1.7 Fan Speed at Heating Thermo-OFF

This function is used to set the fan speed of the indoor unit at Heating Thermo-OFF.

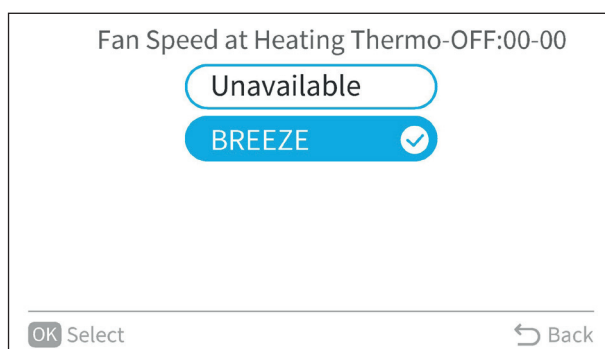
- 1 Select "Fan Speed at Heating Thermo-OFF" on the "Installation Menu" screen and press "OK".



- 2 Press "↑", "↓", "←" or "→" to select the indoor unit. Press "OK". If there is only one indoor unit connected to the wired remote controller, this screen is not displayed (the Step3 screen is shown).



- 3 If "↑" or "↓" is pressed, the fan speed is selected in the following order: "Unavailable" ↔ "BREEZE". Select the fan speed and press "OK" to confirm the setting.



- 4 Press "←" to return to the "Installation Menu" screen.

NOTE

- This menu is a shortcut to set the optional function setting E8, with no remote temperature sensor (connected to THM4 on indoor unit main PCB).
- This menu is not allowing to stop the fan during Heating Thermo-OFF. Refer to the optional function parameters E8 or CE to get more control options.

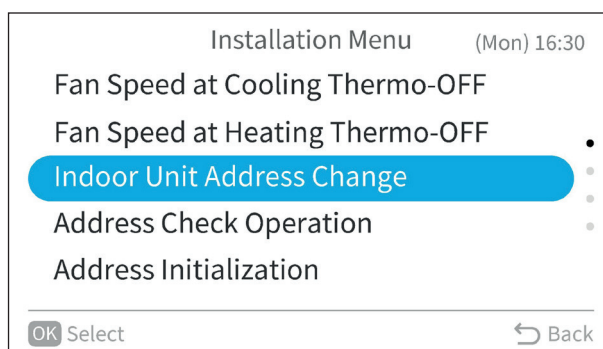
4.1.8 Indoor Unit Address Change

This function is used to change the indoor unit address.

NOTE

- Refrigerant system “99” is used to temporarily save the address when the refrigerant system number or address number of the indoor unit are all used (there is no vacant space).
- After setting Refrigerant System “99”, be sure to change the address within the normal range.

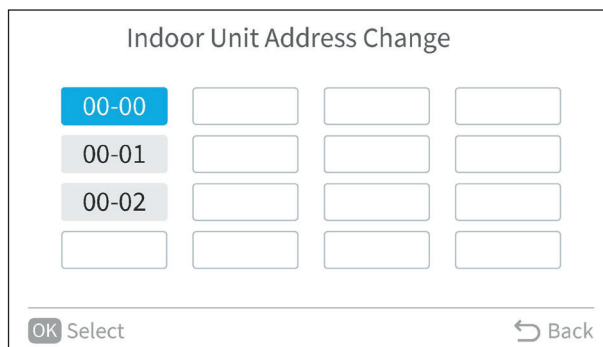
1 Select “Indoor Unit Address Change” on the “Installation Menu” screen and press “OK”.



2 Press “^”, “v”, “<” or “>” to select the indoor unit. Press “OK”.

NOTE

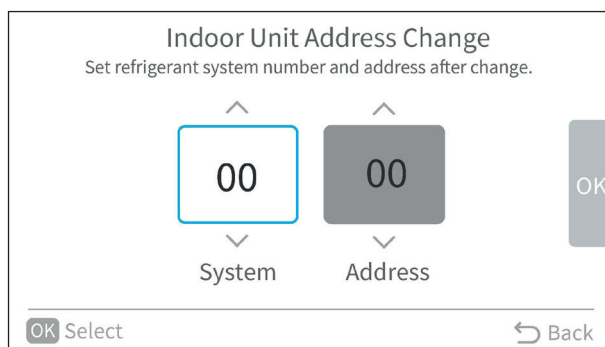
Only the indoor units compatible with the indoor unit address change function can be selected.



3 Select the changed address.

4 Press the “^” or “v” to switch the refrigerant system number within the range of 00 to 63,99. Then switch address number within the range of 00 to 63.

- 5 Select “OK”, then press “OK”.

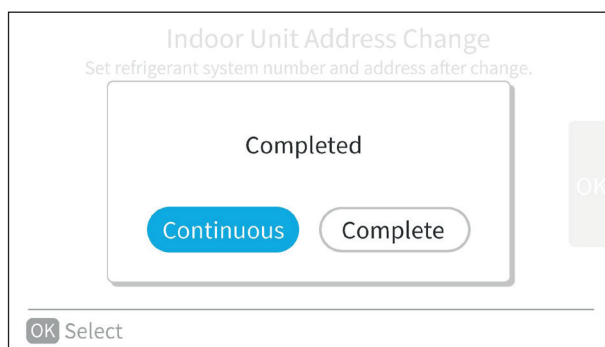


- 6 Press “↵” and select “Yes”. The address change processing starts. The result is displayed after a few seconds.



If the address is changed successfully, the word “Completed” is displayed. Otherwise, the process may have failed. Verify the settings.

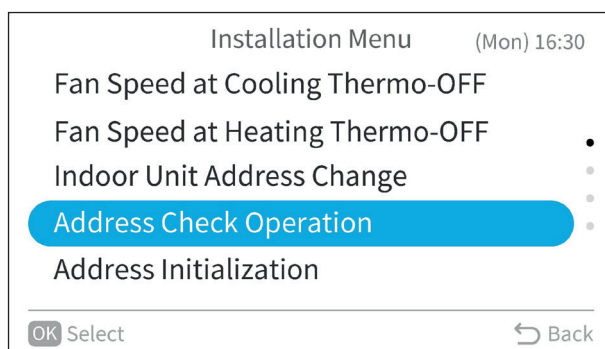
- 7 When changing multiple indoor units’ address, select “Continuous” and press “OK”. When finishing, select “Complete” and press “OK”.



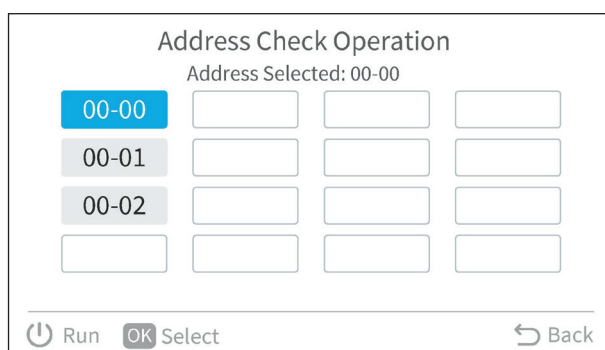
4.1.9 Address Check Operation

This function allows the user to check the addresses of indoor units when several units are controlled from the same wired remote controller. Using this function, the user can operate individually each indoor unit after having selected a specific unit address.

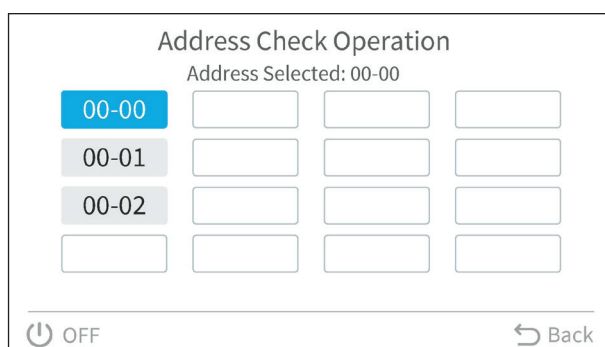
- 1 Select "Address Check Operation" on the "Installation Menu" screen and press "OK".



- 2 Press "↑", "↓", "←" or "→" to select the indoor unit. Press "OK".



- 3 Once the indoor unit is selected, press the "⏻" button to operate the unit. Check that the selected address is matching with the desired indoor unit on the installation. Once done, press again the "⏻" button to stop the unit. Select another unit and repeat this sequence if necessary.



- 4 When the air conditioner is OFF, press "↶", the screen returns to the "Installation Menu" screen.

4.1.10 Address Initialization

This function can be used to initialize the indoor units addresses, cancelling the settings done with the “Indoor Unit Address Change” function.

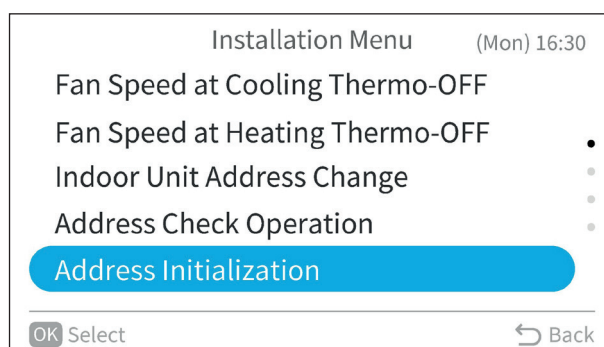
Using this function, the indoor units addresses will be restored as the addresses set physically on the indoor units PCB by DSW setting. In case DSW settings have not been done, temporary automatic addresses will be attributed to the units.

NOTE

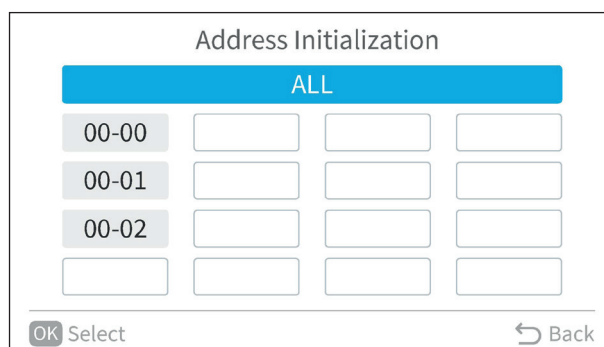
- After the indoor address is initialized, turn off the power of the indoor unit. After all indicators on the remote controller are OFF, turn ON the power of the indoor unit again.
- Address initialization cannot be performed for indoor units that are not connected physically to the remote controller through the A/B terminals (remote controller without remote control line).



- 1 Select “Address Initialization” on the “Installation Menu” screen and press “OK”.



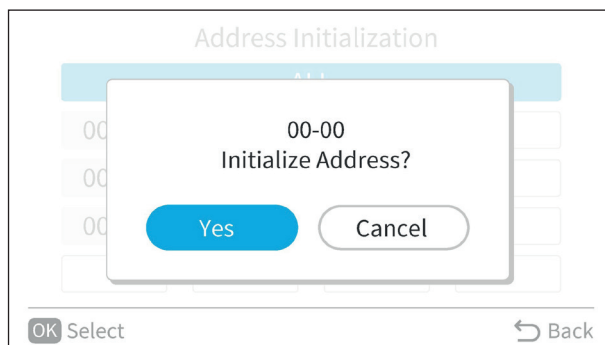
- 2 Press “^”, “v”, “<” or “>” to select the indoor unit. Press “OK”.



NOTE

- Only the indoor units compatible with “Address initialization” function can be selected.
- Even if “All” is selected, the address of the indoor unit that does not support the Address Initialization function cannot be initialized.

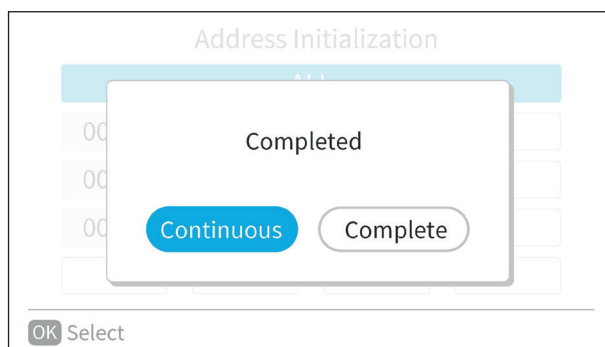
- 3 Select "Yes" and press "OK". The address initialization processing starts.



i NOTE

When the indoor unit address is changed successfully, connection checking process starts.

- 4 Select "Complete" and press "OK".



- 5 Step5. To initialize another indoor unit address, select "Continue" and press "OK" to return to Step2.

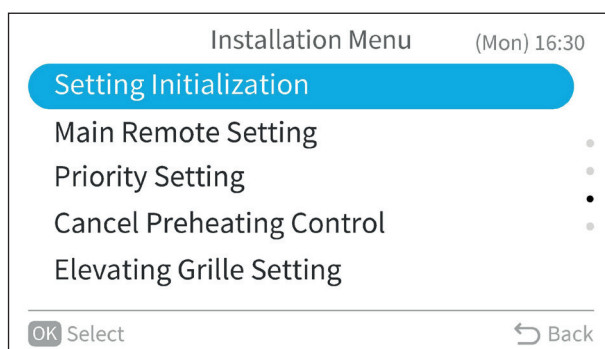
4.1.11 Setting Initialization

This function is used to restore the factory default settings of Function Selection and Input/Output.

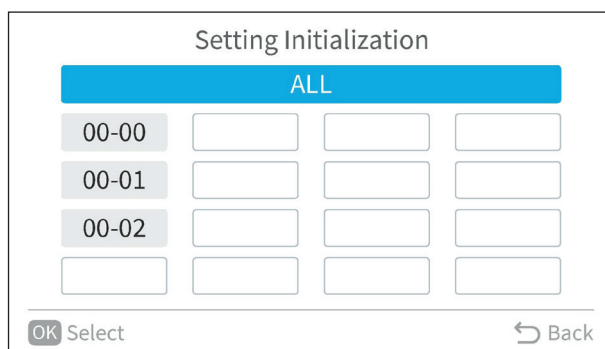
NOTE

- The history display on the “Function Selection” screen is also updated to the factory default setting.
- If the indoor unit that does not support Setting Initialization is selected, “No Function” is displayed.
- Even if “All” is selected, the settings of Function Selection and Input/Output for the indoor unit that does not support Setting Initialization cannot be initialized to the factory default settings.

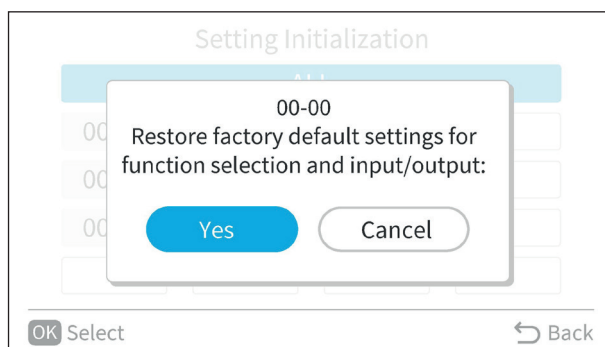
1 Select “Setting Initialization” on the “Installation Menu” screen and press “OK”.



2 Press “^”, “v”, “<” or “>” to select the indoor unit. Press “OK”. If there is only one indoor unit connected to the wired remote controller, this screen is not displayed (the screen in Step 3 is shown).



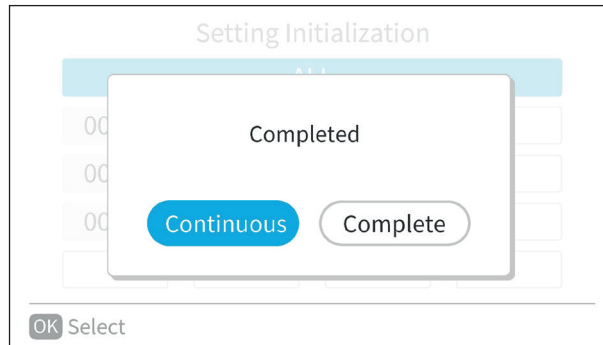
3 Select “Yes” on the confirmation screen and press “OK”. Wait for approximately 30 seconds.



NOTE

Before using this function, make sure that restoring factory settings will not cause issues or inconvenience.

- 4 Select "Complete" and press "OK". To initialize another setting of Function Selection and Input/Output, select "Continue" and press "OK" to return to Step2.

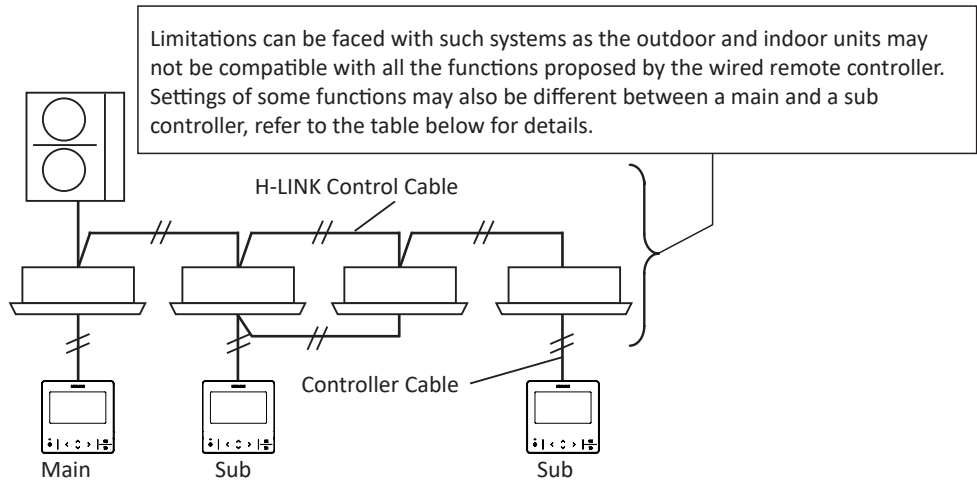


4.1.12 Main Remote Setting

If multiple remote control groups exist in the same outdoor system, main/sub setting is automatically allocated. Set the desired Wired Remote Controller as the “Main” remote controller.

Using this function, a sub remote controller can be set as main.

◆ Example of a refrigeration system containing a group of multiple controllers



Main Controller	—	Only One Controller in Same Refrigerant System
Sub Controller	—	Controller in addition to the Main Controller in the same Refrigerant System

◆ Relation between Main/Sub controller and function settings

NOTE

Concerning main and sub controllers, the range of settings may differ for the functions shown below.

	Function	Main	Sub
Power Saving Details Setting		○	×
Outdoor Unit Capacity Control	Details Setting	○	×
	Power Savings Level Switch	○	×
Indoor Unit Rotation Control	Details Setting	○	×
	ON/OFF	○	○
Intermittent Control	Details Setting	○	○
	Power Savings Level Switch	○	○
Night Quiet Operation		○	×
Power Savings Schedule	Outdoor Capacity Control	○	×
	Intermittent Control	○	○
Night Quiet Operation Schedule		○	×
Power Up Setting		○	×
Autoboost		○	○

○: Available

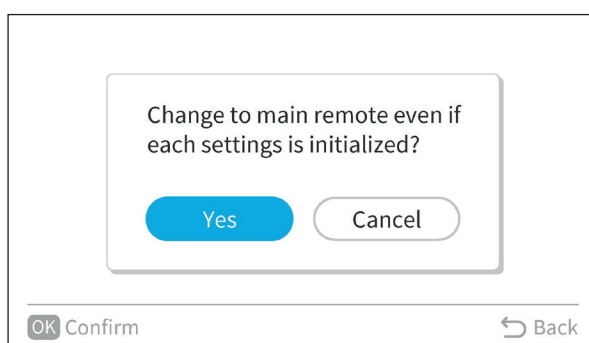
×: Not Available

◆ Changing from the sub controller to the main controller

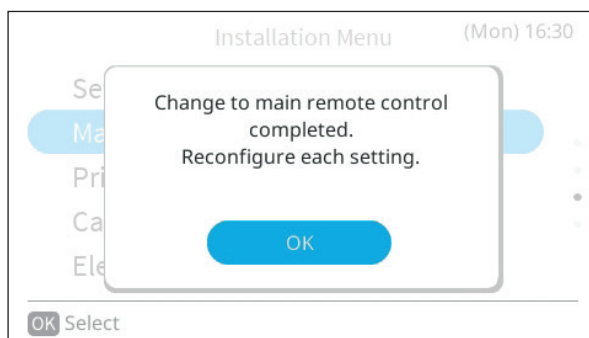
- 1 Select "Installation Menu" on the "Service & Installation" screen by pressing "↖" and press "OK".
- 2 Select "Main Remote Setting" by pressing "↗" or "↘" and press "OK".
- 3 Select "Yes" and press "OK" to change to the main remote. "Change to main remote" is displayed on the screen. Select "Cancel" to return to Step2.

When setting the remote controller to main, the settings of several functions are reset to their default settings:

- ✓ Power savings mode (set to "No Setting")
- ✓ Power Saving/Night Quiet schedule
- ✓ Night Quiet operation
- ✓ Priority setting
- ✓ Power up Setting



- 4 When the change to main remote control is completed, the "Reconfigure each setting" screen is displayed.



- 5 Press "OK" on the confirmation screen to return to Installation Menu.

NOTE

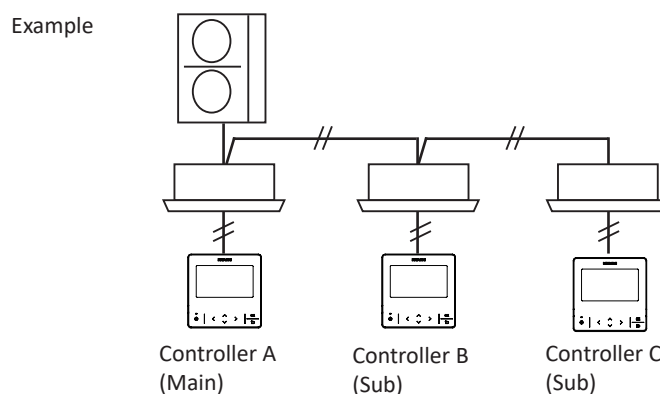
- When using two controllers, only the primary controller can be set as the main controller. In cases where two controllers are both sub controllers, the "Main Remote Setting" is only accessible from the primary controller.
- In case the primary controller is a "Main Controller" and the secondary controller is a "Sub Controller", when the primary controller and the secondary controller are changed by the function selection, Main and Sub controllers will also be switched simultaneously.

- In case only sub controllers are setup for one refrigerant cycle system, the main remote controller may not operate normally. In this case, check the connection wiring on the related wired controller.
- If a remote control group is operating with multiple refrigerant systems, the ECO function may not operate normally.

4.1.13 Priority Setting

Thanks to this function, the operation mode and the temperature settings of the indoor units belonging to the same refrigerant cycle can be set from a specific remote controller (the main one), without having to use a central controller.

The settings on the sub controllers can be decided by the priority setting from the main controller. Power saving details are set only from the main controller.



List of operations that can be performed when priority is set

Priority Setting		Remote Selection		
		Controller A (Main)	Controller B and C (Sub)	
		Operation Mode Temperature Setpoint	Operation Mode	Temperature Setpoint
Without Priority			○	○
With Priority	Operation Mode	○	▲	○
	Operation Mode + Temperature Setpoint		▲	×

○: Selection Possible

▲: Selection Possible Partially

Operation Mode + FAN set by Controller A (Main)

Only when COOL mode COOL↔DRY

×: Selection not possible (Temperature setting is imposed by controller A (main))

NOTE

- The factory default “Priority Setting” is: “Not available”. This can be set in “Priority Setting” in the Test Run menu.
- It is not possible to set a priority for setting temperature only. When operation mode is set as “priority”, and operation mode in MAIN is set in Auto Cool/Heat then operation mode change is possible in all indoor units under auto Cool/Heat control.
- When using 2 remote controllers on the same indoor unit, it is not possible to set priority
- This function cannot be used in case that any of the following devices is connected to the same refrigerant cycle:
 - » Outdoor unit or indoor unit not supporting power saving functions.
 - » Receiver Kit.
 - » Central Station, CS-NET Manager and BMS gateways.
 - » A remote controller with activated function for fixed operation mode (b5), fixed setting temperature (b6) or fixed cooling-only (b7).
 - » Cooling/Heating CH-Box.

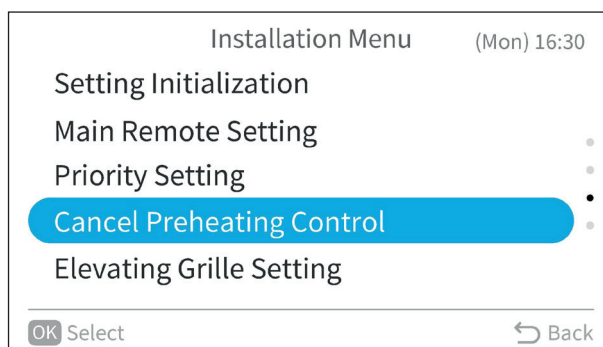
◆ Set Operation Mode and Temperature Priority

- 1 Select “Installation Menu” on the Service & Installation screen and press “OK”.
- 2 Select “Priority Setting” and press “OK”.
- 3 Press “^” or “v” to change in order the “No Setting” ↔ “Operation Mode” ↔ “Operation Mode + Set Temp”. Select the setting and press “OK” to display the confirmation screen.
- 4 Press “↵” to return to the Installation Menu.

4.1.14 Cancel Preheating Control

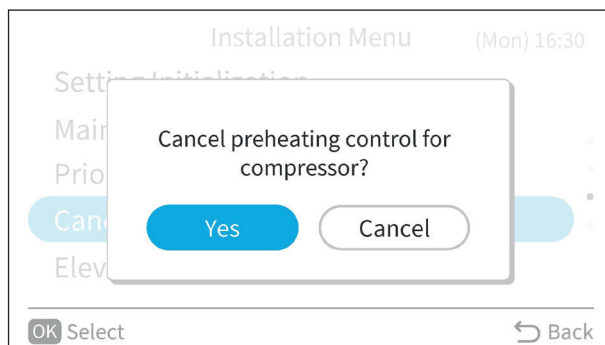
To cancel preheating control for compressor.

- 1 Select “Cancel Preheating Control” on the “Installation Menu” screen and press “OK”.



- 2 Select “Yes” and press “OK”.

3 When “Cancel” is selected, the screen returns to the “Installation Menu”.



i NOTE

It is not recommended to cancel the compressor preheating control in normal operation, as the compressor may be damaged. This function shall be used only in case of maintenance operation carry out by technical specialist or Hitachi Service team.

4.1.15 Elevating grille Setting

In order to activate the elevating grille function for the related indoor units, some specific settings must be set for input/output contacts (refer to “[Table A. Optional Setting Items for Function Selection](#)” for details).

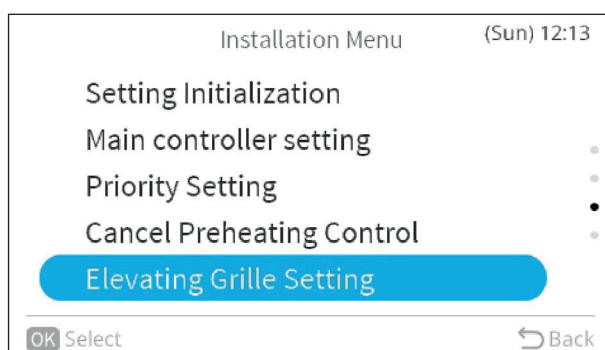
- input i2 = 08
- output o1 and o2 = 08
- optional parameter (descent distance) d7 = 01

These settings can be easily set in one go using the “Elevating Grille Setting” menu.

By selecting “Elevating Grille Setting”, the necessary optional parameters will be applied automatically.

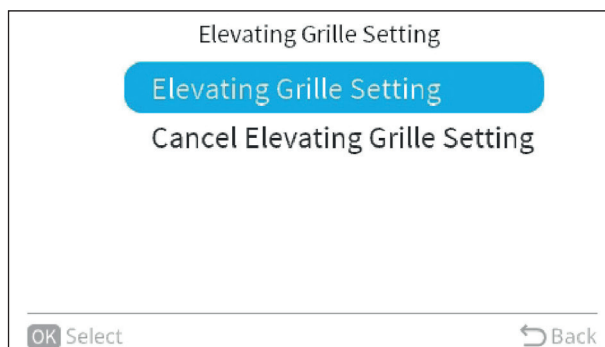
By selecting “Cancel Elevating Grille Setting”, the default values for the related optional parameters are restored.

1 Select “Elevating Grille Settings” on the “Installation Menu” and press “OK”.

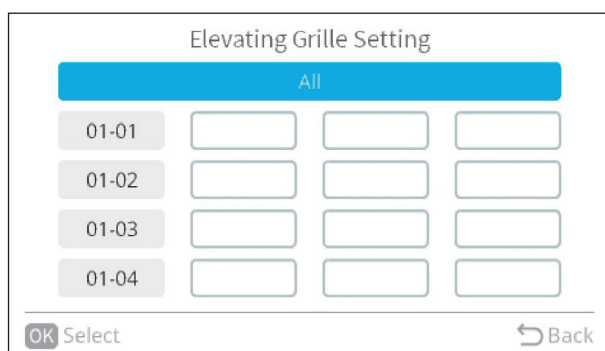


◆ Set the Elevating Grille

- 1 Select "Elevating Grille Settings" on the "Elevating Grille Setting" menu and press "OK".



- 2 These settings can be done in one step for one or several units. Press " $\wedge$ ", " $\vee$ ", " $\leftarrow$ " or " $\rightarrow$ " to move and select the desired indoor unit by pressing "OK".

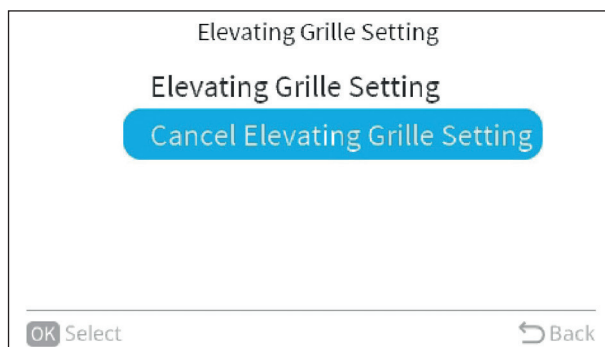


- 3 Select "Yes" and press "OK" to confirm the configuration
- 4 When "Cancel" is selected, the screen returns to the "Elevating Grille Setting" menu.



◆ Override the Elevating Grille

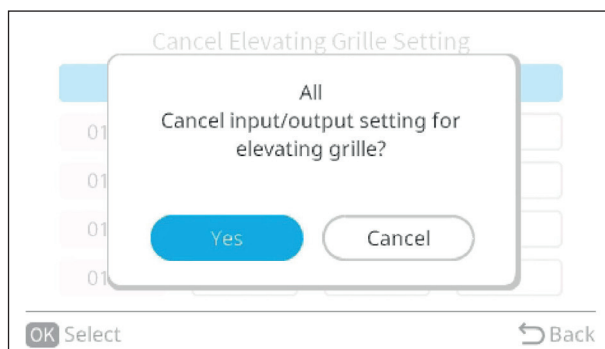
- 1 Select "Cancel Grille Settings" on the "Elevating Grille Setting" menu and press "OK".



- 2 The elevating grille function can also be cancelled in one step for one or several units. Press "↑", "↓", "←" or "→" to move and select the desired indoor unit by pressing "OK".



- 3 Select "Yes" and press "OK" to confirm the configuration.
- 4 When "Cancel" is selected, the screen returns to the "Elevating Grille Setting" menu.

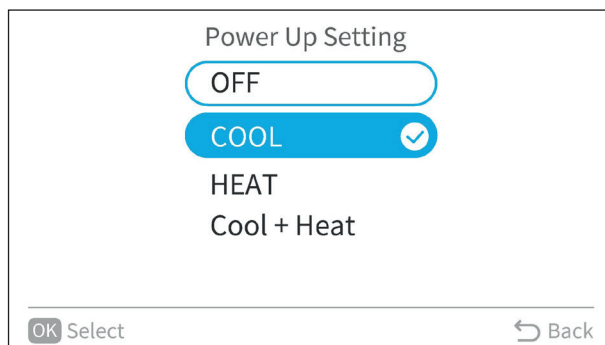


4.1.16 Power Up Setting

This function is used to set the maximum compressor frequency and the target compressor frequency higher than usual. Power up operation is performed after starting operation in the selected operation mode (COOL only - HEAT ONLY - COOL+HEAT). This function is available only for the compatible H-LINK 2 outdoor units.

Please check the relevant technical information of the unit in order to know if is compatible for this function.

- 1 Select "Power Up Setting" on the "Installation Menu" screen and press "OK".
- 2 If "∧" or "∨" is pressed, the settings are selected in the following order: "OFF" ↔ "COOL" ↔ "HEAT" ↔ "Cool + Heat" Select the setting and press "OK" to confirm the setting.

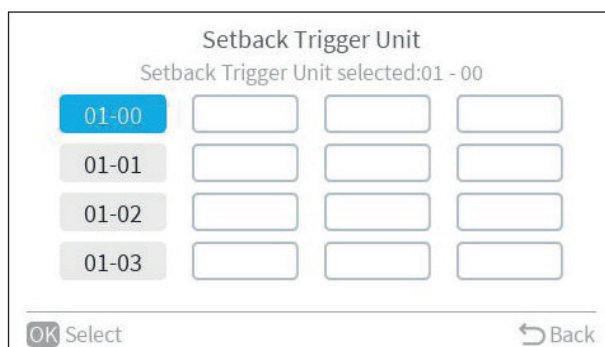


- 3 Press "↶" to return to the Installation Menu.

4.1.17 Setback Trigger Unit

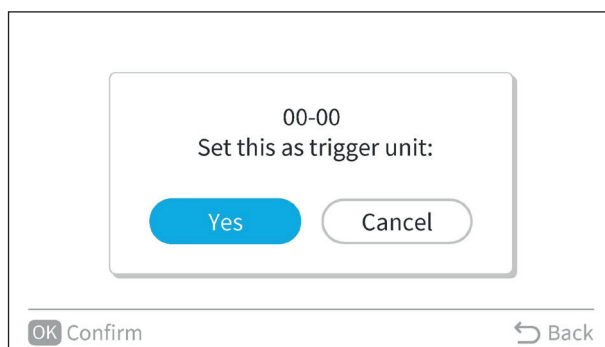
The setback trigger unit can be set from the Installation Menu.

- 1 Select the indoor unit by pressing "∧", "∨", "◀", or "▶" and press "OK" to display the confirmation screen.



- 2 Select "Yes" and press "OK" to confirm the setting. Then, please wait a moment until the screen shows "Completed" or "Setting Disabled".

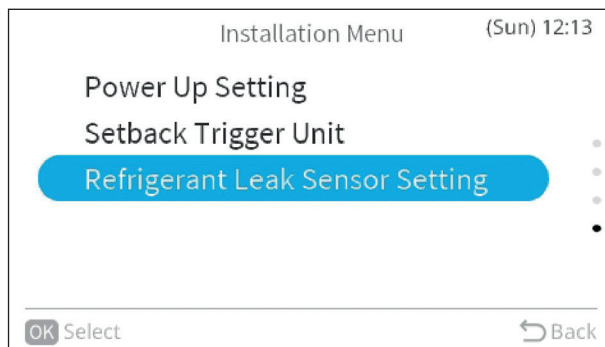
If "Cancel" is selected, the screen returns to the Setback Trigger Unit screen.



4.1.18 Refrigerant Leak Sensor Setting

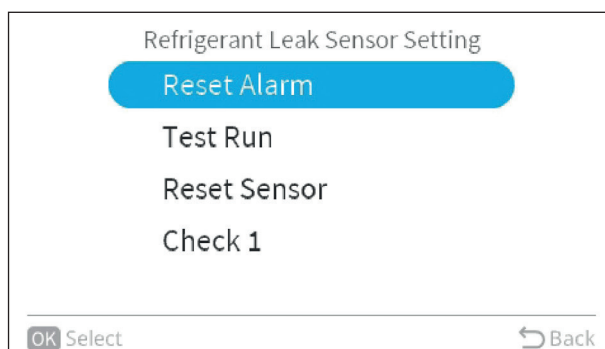
Function only available for those indoor units that are equipped with refrigerant leak sensor. Current European indoor units series are not equipped yet with this device, then the refrigerant leak sensor menu will have no action.

Select "Refrigerant Leak Sensor Setting" on the "Installation Menu" and press "OK".

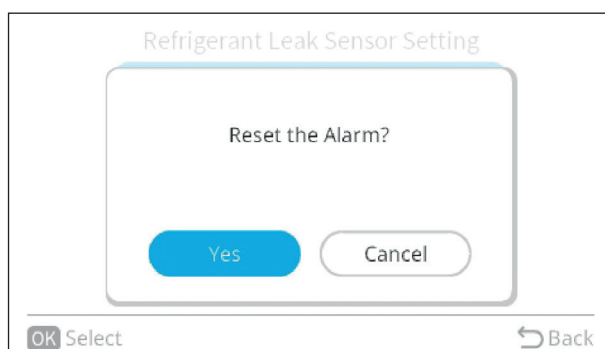


◆ Reset Alarm

- 1 Select "Reset Alarm" on the "Refrigerant Leak Sensor Setting" menu and press "OK".

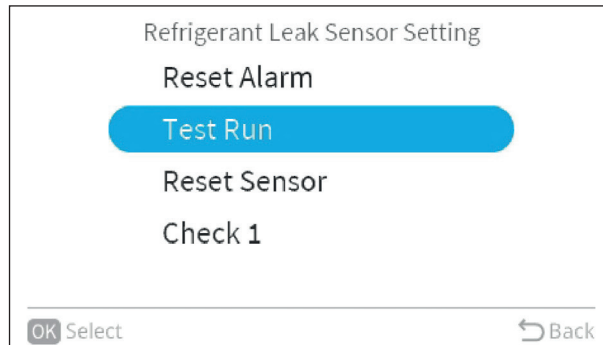


- 2 Select "Yes" on the confirmation screen and press "OK".



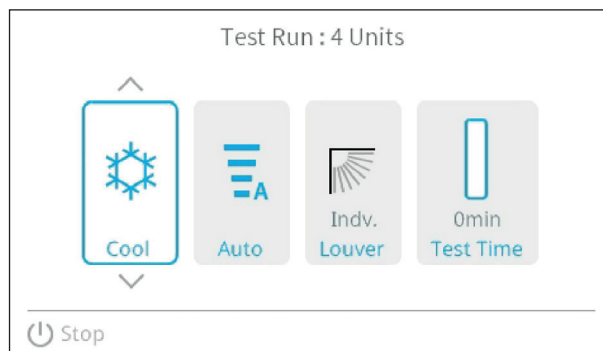
◆ Test Run

- 1 Select "Test Run" on the "Refrigerant Leak Sensor Setting" menu and press "OK".



- 2 By pressing "<" or ">" move between "Operation Mode", "Fan speed", "Louver" and "Test Time" controls.

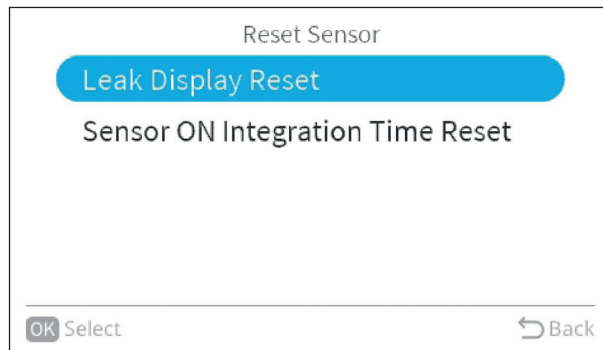
By pressing "^" or "v" change the setting of the selected control.



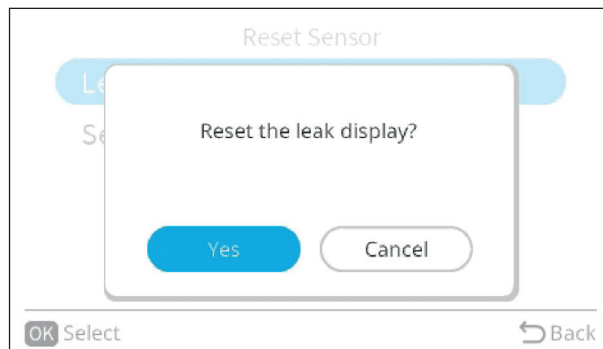
- 3 Press "↶" in order to set the test run and to return to the "Refrigerant Leak Sensor Setting" menu.

◆ Reset Leak Display

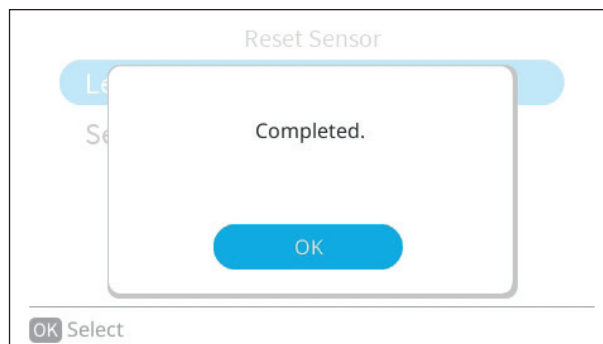
- 1 Select "Reset Sensor" on the "Refrigerant Leak Sensor Setting" menu and press "OK".
- 2 Select "Leak Display Reset" on the "Reset Sensor" screen and press "OK".



- 3 Select "Yes" on the confirmation screen and press "OK".

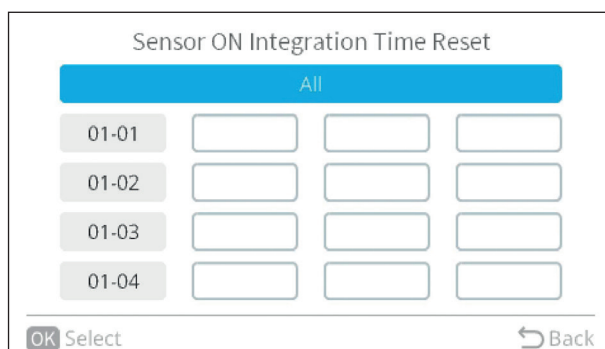


- 4 Wait for the process to complete. Press "OK" when the message "Completed" appears in order to get back to the "Reset Sensor" screen.

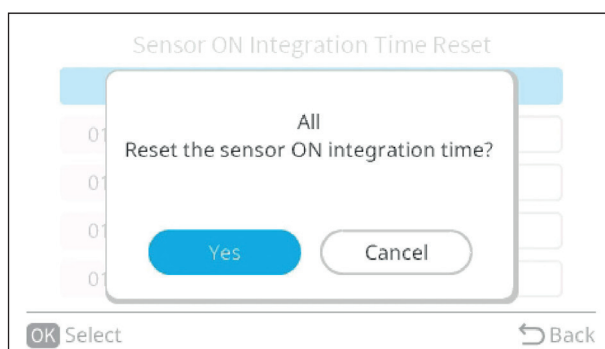


◆ Sensor ON Integration Time Reset

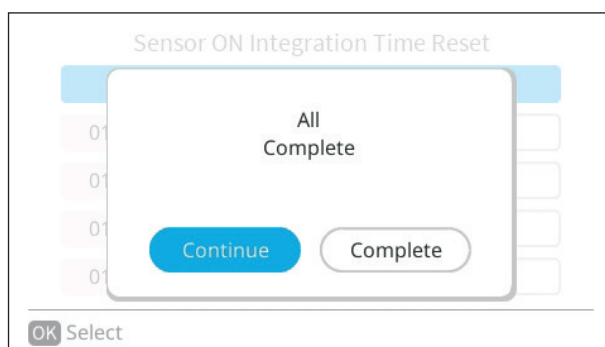
- 1 Select "Reset Sensor" on the "Refrigerant Leak Sensor Setting" menu and press "OK".
- 2 Select "Sensor ON Integration Time Reset" on the confirmation screen and press "OK". Select the desired indoor unit by pressing "^", "v", "<", or ">" and press "OK" to display the confirmation screen.



- 3 Select "Yes" on the confirmation screen and press "OK".

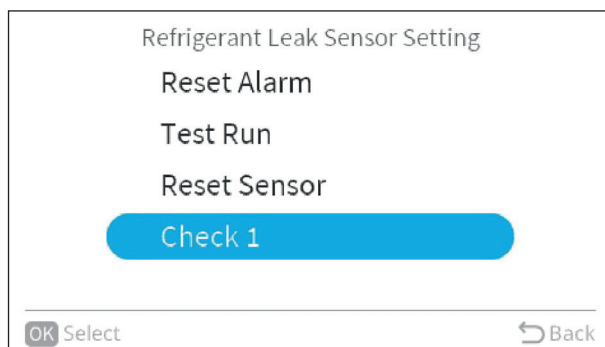


- 4 Wait for the process to complete. When "Complete" screen appears, by selecting "Continue" and pressing "OK" the screen gets back to the "Sensor ON Integration Time Reset" menu. By selecting "Complete" and pressing "OK", the screen returns back to the "Reset Sensor" menu.

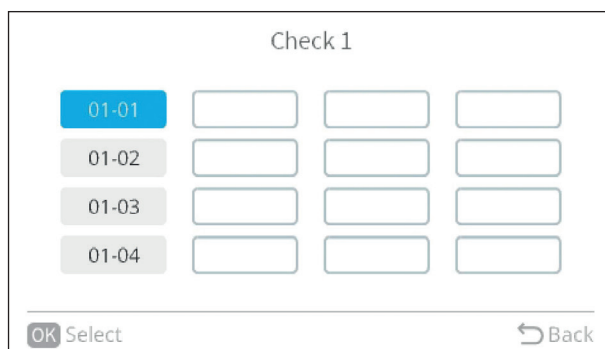


Check 1

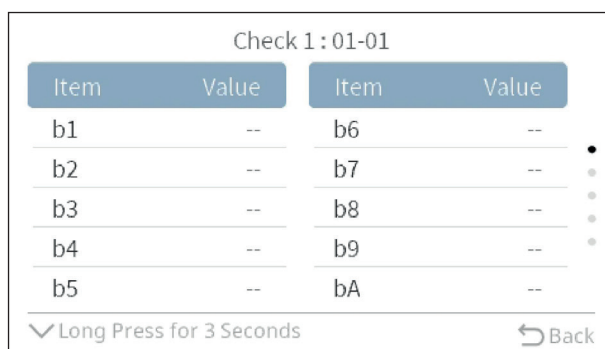
- 1 Select "Check 1" on the "Refrigerant Leak Sensor Setting" menu and press "OK".



- 2 Press "^", "v", "<", or ">" to select the indoor unit. Press "OK". If there is only one indoor unit connected to the wired remote controller, this screen is not displayed (the screen in Step 3 is shown).

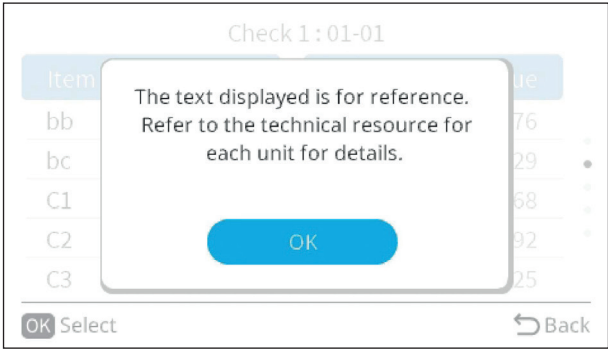


- 3 Press "^" or "v" to change the page of check data.



By pressing and holding "v" for 3 seconds or longer, the items are displayed with a description, translated in the selected language. The text displayed is for reference. Refer to the technical resource for each indoor unit for details.

4 Press “OK” to get pass the information screen.



5 A list of items will be displayed with the corresponding item description and its value. Short press “↵” to browse through the items. By pressing “↵” once, the display returns to the first items list screen. By pressing “↵” again the display returns back to the “Check 1” screen.

Check 1 : 01-01		
Item	Value	
b1 Set Temp. (°C)	12	
b2 Inlet Air Temp (°C)	96	01
b3 Discharge Air Temp. (°C)	9	10
b4 Liquid Pipe Temp. (°C)	41	
b5 Remote Thermistor Temp. (°C)	30	
✓ Long Press for 3 Seconds		
		↵ Back

4.2 Service menu

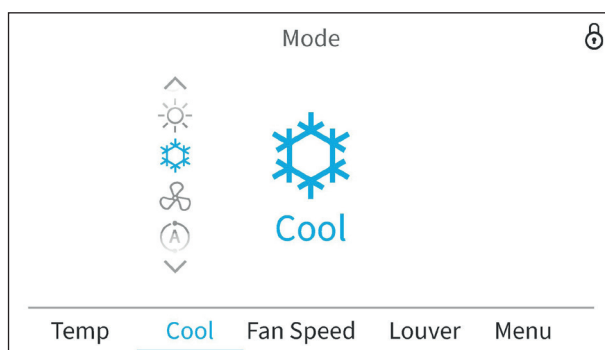
4.2.1 Operation Lock/Unlock Setting

This function allows to lock one or several operation settings of the indoor unit from the remote controller.

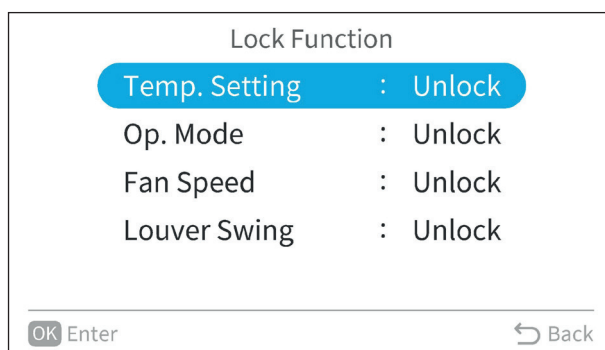
On the setting menu, when the lock icon “” is getting displayed, that means this setting is locked and cannot be changed by the user using the “” or “” buttons.

The following settings can be locked:

- Temperature setting (Temp)
- Operation mode (Mode)
- Fan speed
- Louver swing (Louver)

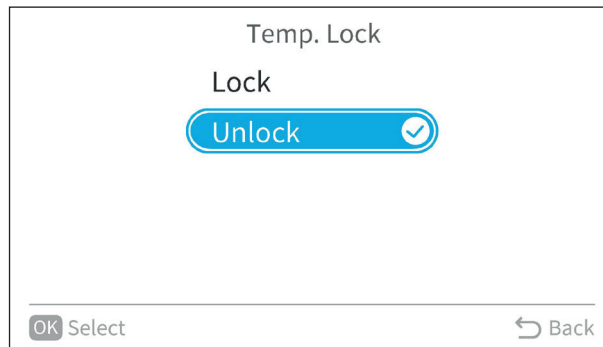


- 1 In “Service & Installation”, select “Service Menu” and press “OK”.
- 2 Select “Lock Function”.
- 3 Press “” or “” and press “OK”. The operation changes as follows: “Temperature Setting” ↔ “Op. Mode” ↔ “Fan Speed” ↔ “Louver Swing”.



- 4 Press “” or “” to select “Unlock” and press “OK” to confirm the setting.

5 Press “↶” to return to Step3.



NOTE

- Parameters F8, F9, F1 and FB must be set to 01 (available) in order to get the related setting available in the Lock Function menu. If not, the related settings cannot be locked by this function.
- In case a central controller is connected to the HLINK system, it is recommended to not use simultaneously the Lock function from the wired controller and the remote control operation “prohibition” function from the central controller.
- The remote control operation “prohibition” from the Central Controller will always have priority over the “Operation Lock” function on the individual wired controller.
- When using Central Stations PSC-A32MN or PSC-A64GT, setting the remote control operation from “all prohibited” to “all permitted” may also unlock all settings locked with the “Operation Lock” from the individual wired controller.

4.2.2 Password Setting

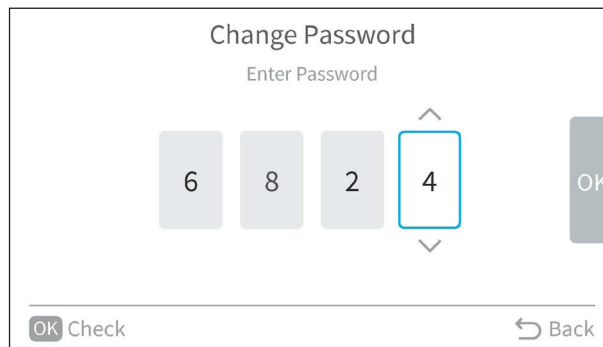
The initial user password can be changed. If you forget the changed user password, a supervisor password can be used to set the user password again. The supervisor password is "5567".

The password input effective time can be set also.

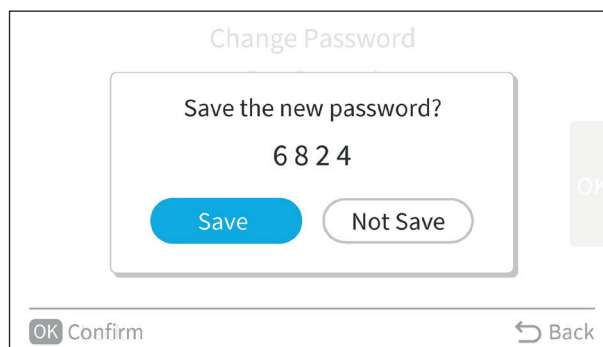
It is not necessary to enter the password for a certain period after setting the password input effective time.

◆ Change Password

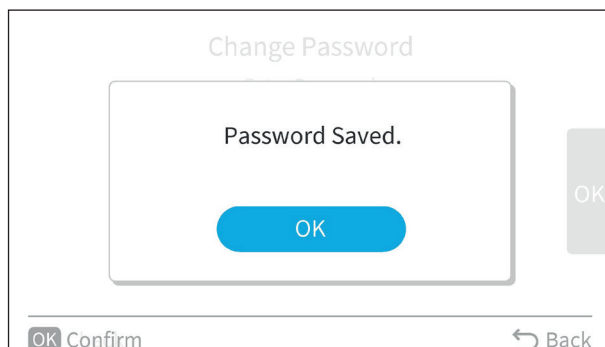
- 1 Select "Service Menu" on the Service & Installation screen and press "OK".
- 2 Select "Password Setting" and press "OK".
- 3 Select "Change Password" and press "OK".
- 4 Use "^", "v", "<", or ">" to enter the password you want to set, select "OK" and press "OK".



- 5 Press "^" or "v" to select "Save" and press "OK" to change password. Select "Not Save", the screen returns to Step3.
Press ">", the screen returns to Step2.

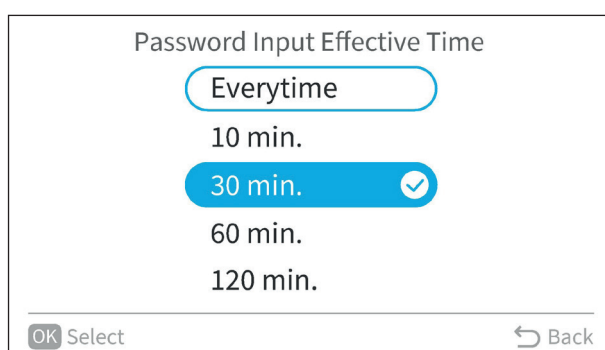


6 Press “OK”, the screen returns to Step2.



◆ Set Password Input Effective Time

- 1 Select “Service Menu” on the Service & Installation screen and press “OK”.
- 2 Select “Password Setting” and press “OK”.
- 3 Select “Effective Time” and press “OK”.
- 4 Press “^” or “v” to select the setting item and press “OK” to confirm the setting. The item changes as follows:
“Everytime” ↔ “10 min” ↔ “30 min” ↔ “60 min” ↔ “120 min”. Press “↵” and it returns to Step3.



NOTE

- The default password is “0000”, and the supervisor code is “5567”.
- If you forget the password, use the supervisor code to change the password.
- The supervisor code can’t be changed.
- For two remote controllers, the passwords are not synchronized automatically. For each remote controller, the password needs to be set individually.

4.2.3 Hotel Mode Setting

This setting enables or disables the hotel mode.

- 1 Select "Service Menu" on the Service & Installation screen and press "OK".
- 2 Select "Hotel Mode" and press "OK".
- 3 Press "▲" or "▼" to select enabled setting.
- 4 After selecting, press "OK".
- 5 Select "Yes" and press "OK" to confirm the settings and display the completion screen.
- 6 If you select "Cancel", the screen returns to Step3.

NOTE

Refer to "Hotel Mode Setting" in *"4.2.3 Hotel Mode Setting"*.

4.2.4 Power Saving Details Setting

This chapter provides the details about the available settings related to the power saving function.

There are 3 power saving modes available: outdoor unit capacity control, indoor unit rotation control and intermittent control. Settings for these 3 power saving modes are available from this menu.

NOTE

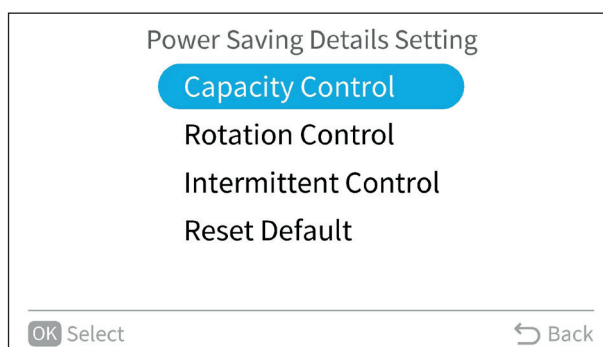
Go to Power Savings Setting from Function Menu. Also refer to "Power Savings Setting" in *"4.2.4 Power Saving Details Setting"* for details.

Item	Function
Capacity Control	Capacity control deals with the outdoor unit capacity, the aim of the function is to reduce the running current of the system to match with the capacity control setting. Set control mode and power savings level with its corresponding value.
Rotation Control	Interlock with indoor units of the same outdoor unit system and switch to FAN operation in sequence. Set control mode and fan mode time.
Intermittent Control	Cooling/heating mode and fan mode are repeated at regular intervals. Set power savings level.
Reset Default	Initialize the power saving settings.

◆ Outdoor Capacity Control Setting

Item	Description
Control Method	The "Peak Cut Control" reduces the power consumption range when it exceeds the value of the power setting. On the basis of the current air conditioning capacity, the "Moderate Control" is used to moderate the air conditioning capacity as well as the peak.
Power Savings (Low/Med/High)	Assign the corresponding capacity control values to the low, medium, and high power savings levels.
Change Level	The power saving level can be set.

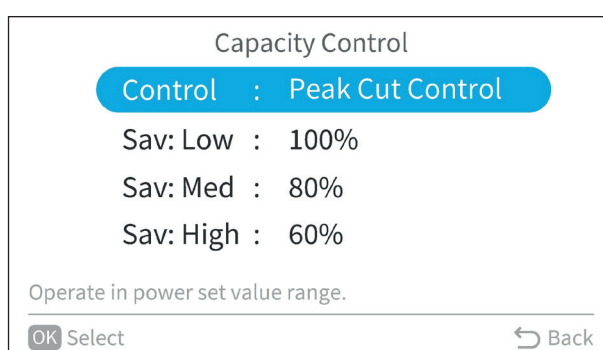
- 1 Select "Service Menu" on the Service & Installation screen and press "OK".
- 2 Select "Power Saving Details Setting" and press "OK".
- 3 Select "Capacity Control" and press "OK".



- 4 Press "▲" or "▼".

The items "Control" ↔ "Sav: LOW" ↔ "Sav: MED" ↔ "Sav: HIGH" are displayed in order.

Press "↶" to move to **"Change level"**.



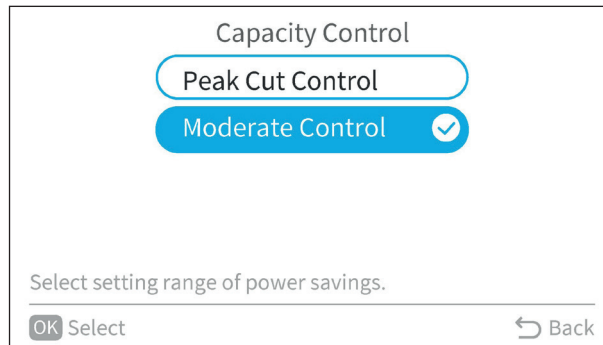
Change the Control Method

Select "Control" and press "OK".

Press "▲" or "▼" to select the item to set and press "OK".

It changes between "Peak Cut Control" and "Moderate Control".

Press "↶" to return to Step 4.

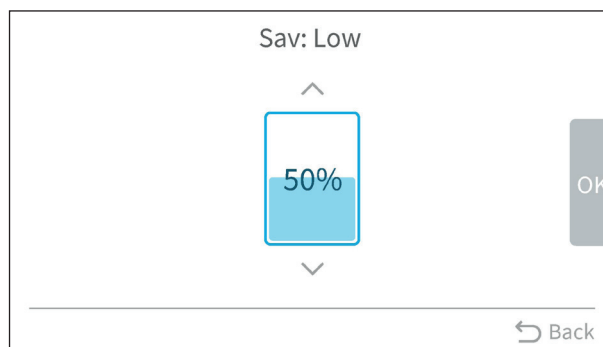


Change the power savings level

Select "Sav: LOW (MED/HIGH)" and press "OK". Press "▲" or "▼" to set the level.

→ The level changes as follows: [100%] ↔ [90%] ↔ [80%] ↔ [70%] ↔ [60%] ↔ [50%] ↔ [40%] ↔ [0%].

After setting, select "OK" and press "OK" and it returns to Step3.



NOTE

- For the sub remote controller, only the level switching order can be set.
- If some settings are changed in the “Power Saving details Settings” menu, the power saving function using the related control mode is automatically set to OFF in the Function menu. It is necessary to set it ON again manually once the settings are done.
- The cooling/heating capacity can decrease when using the “Power Savings” function.

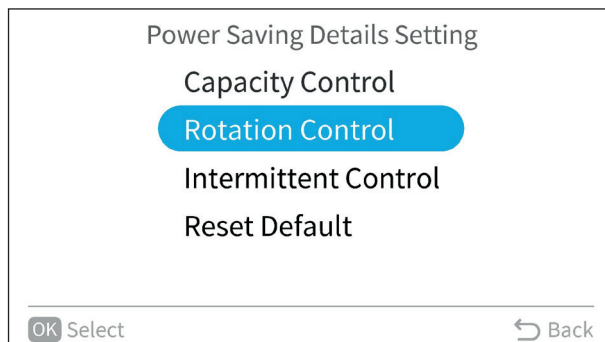
◆ Indoor Unit Rotation Control Setting

Item		Description
Control Method	Address Order	Indoor units are set to Fan mode in ascending order, one by one, depending on their H-link address.
	Temperature Order	Indoor units are set to Fan mode according to the temperature difference between the temperature set point and the air inlet temperature, in ascending order: units for which Tset is closer to the setting temperature are the first to be switched to fan mode.
	Sensor Order(*)	If the motion sensor is used, Fan mode will be applied to the indoor unit that has the lowest activity detected. Once the fan mode operation time is elapsed, this unit returns to heating/cooling (previous operation) mode and fan mode is applied to another indoor unit with the lowest activity.
Change Level		It is possible to change the timing of the operation mode switch to fan mode, for the concerned indoor units.

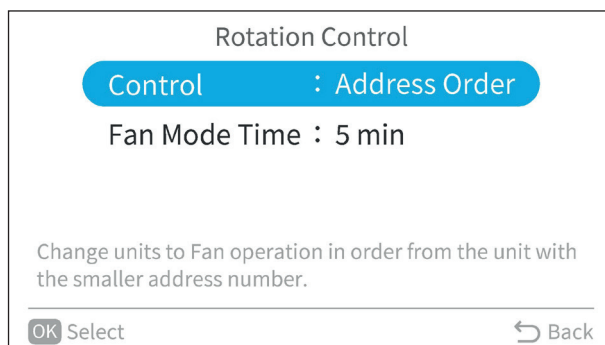
NOTE

(*)Cannot be set if the indoor/outdoor unit does not support this function.

- 1 Select "Service Menu" on the Service & Installation screen and press "OK".
- 2 Select "Power Saving Details Setting" and press "OK".
Power Saving Details Setting screen is displayed.
- 3 Select "Rotation Control" and press "OK".



- 4 Press "▲" or "▼" to select the setting item. The items "Control" and "Fan Mode Time" are displayed in order.

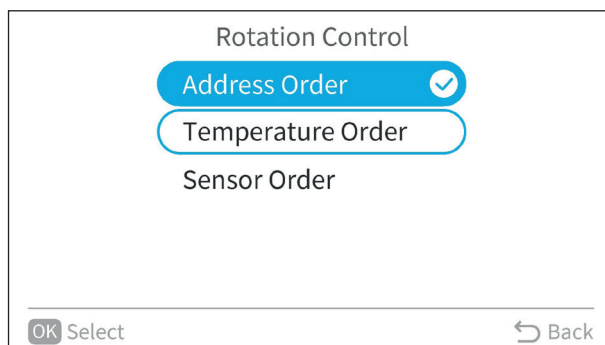


Change the Control Method

- Select "Control" and press "OK".
- Press "▲" or "▼" to select the item to set and press "OK". It changes as follows: "Address Order" ↔ "Temperature Order" ↔ "Sensor Order".
- Press "↶" to return to Step4.

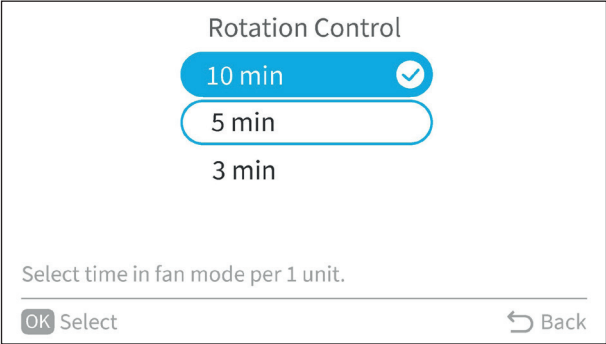
NOTE

Cannot be set if the indoor/outdoor unit does not support this function.



Change the Fan Mode Time

- Select “Fan Mode Time” and press “OK”.
- Press “^” or “v” to set the fan mode time. Press “OK” to confirm the setting. It changes as follows: “10 min” ↔ “5 min” ↔ “3 min”.
- Press “↶” to return to Step4.



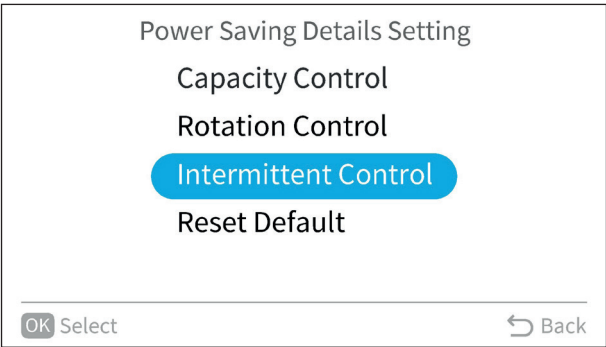
i NOTE

- Indoor rotation control cannot be set from the sub remote controller.
- If some settings are changed in the “Power Saving details Settings” menu, the power saving function using the related control mode is automatically set to OFF in the Function menu. It is necessary to set it ON again manually once the settings are done.
- This function can be used only when the operation mode is cooling/heating.
- The cooling/heating capacity can decrease when using the “Power Saving” function.

◆ Intermittent Control Setting

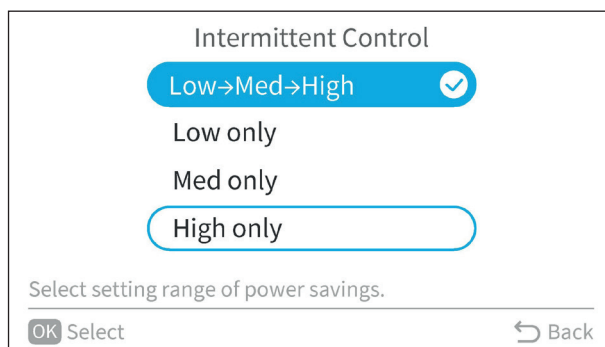
Item	Description
Level Change	The power saving level can be set.

- 1 Select “Service Menu” on the Service & Installation screen and press “OK”.
- 2 Select “Power Saving Details Setting” and press “OK. Power Saving Details Setting screen is displayed.
- 3 Select “Intermittent Control” and press “OK”.



Change level

- Press “^” or “v” to select the level and press “OK”.
- It changes as follows: “LOW → MED → HIGH” ↔ “LOW only” ↔ “MED only” ↔ “HIGH only”.
- Press “↶” to return to Step3.



NOTE

- This setting not only serves to change the level of the power saving details setting, but also selects the energy saving levels available for the Intermittent control in the energy saving settings menu (see “4.2.4 Power Saving Details Setting”). For example, if “low only” is selected, the user will only be able to select this “low” level from the energy saving menu.
- This function cannot be set when only the total heat exchanger is connected.
- When Intermittent Control mode is selected, operations of the related indoor units will follow the sequences detailed below, according to the power saving level selected:

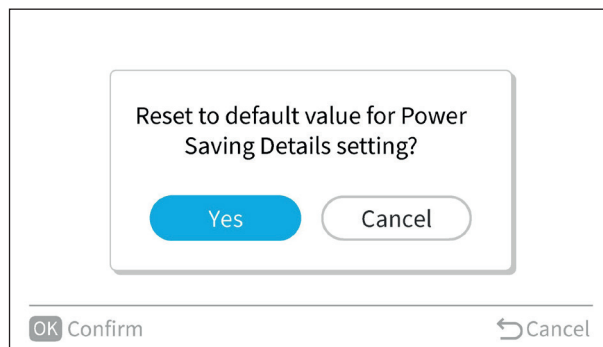
	Cool/Dry Mode	Heat Mode
Power Saving: LOW	Normal Mode 20 minutes ↔ Fan Mode 10 minutes	Normal Mode 25 minutes ↔ Fan Mode 5 minutes
Power Saving: MED	Normal Mode 17 minutes ↔ Fan Mode 13 minutes	Normal Mode 20 minutes ↔ Fan Mode 10 minutes
Power Saving: HIGH	Normal Mode 15 minutes ↔ Fan Mode 15 minutes	Normal Mode 15 minutes ↔ Fan Mode 15 minutes

- If some settings are changed in the “Power Saving details Settings” menu, the power saving function using the related control mode is automatically set to OFF in the Function menu. It is necessary to set it ON again manually once the settings are done.
- The cooling/heating capacity can decrease when using the “Power Saving” function.

◆ Reset method

Reset power saving details setting to default values

- 1 Select "Service Menu" on the Service & Installation screen and press "OK".
- 2 Select "Power Saving Details Setting" and press "OK".
- 3 Select "Reset Default" and press "OK".
- 4 Select "Yes" and press "OK", reset the power saving details to default and return to Step2.
- 5 Select "Cancel" and press "OK", return to Step2.



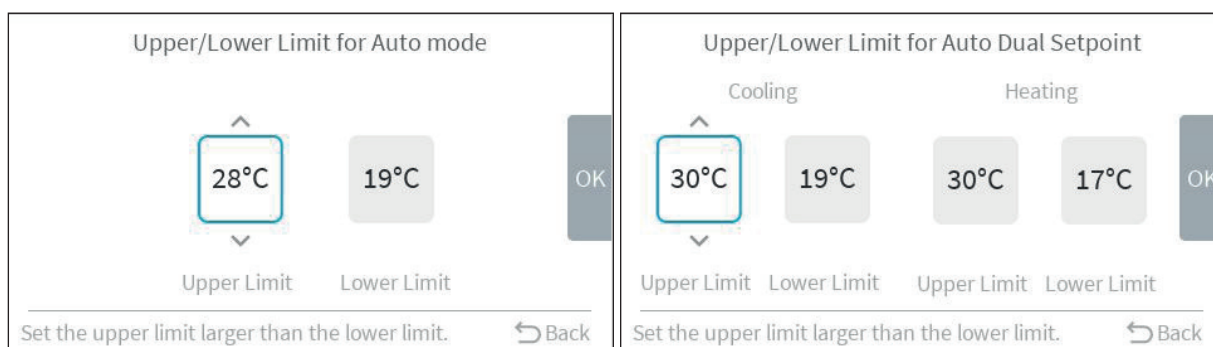
4.2.5 Temperature Range Restriction

The temperature range can be set by operating the remote controller.

- 1 Select "Service Menu" on the Service & Installation screen and press "OK".
- 2 Select "Temperature Range Restriction" and press "OK".
- 3 Set upper and lower limit for cooling and heating
 - a. Upper and lower limit of setting temperature for cooling and heating can be set, while the limit value can be changed.



- b. Set upper and lower limit for auto mode and auto dual setpoint. In Service Menu, Upper/Lower Limit for Auto Mode and Upper/Lower Limit for Auto Dual Setpoint can be set.



- 4 Press "↑", "↓", "←", or "→" to select the setting value and press "OK".
- 5 Press "↶" to return to Step3.

NOTE

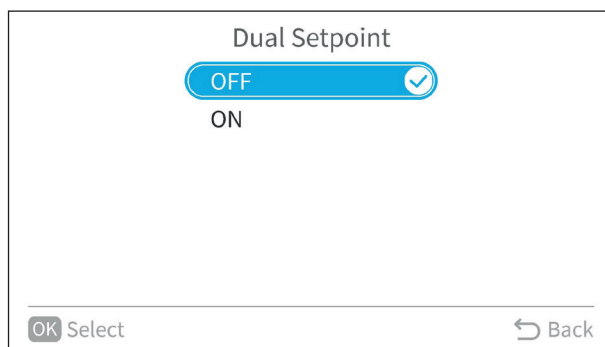
- When Cool/Heat Auto Changeover is effective, the upper and lower limit for auto mode is displayed in "Temperature Range Restriction".
- When Dual Setpoint is effective, the upper and lower limit for auto dual setpoint is displayed in "Temperature Range Restriction". Please set the upper limit greater than the lower limit.
- When using two wired remote controllers, the auto upper and lower limit are not synchronized. Please set them with the own wired remote controllers.
- Please note that the temperature setting is "cooling setting temperature $\geq$ heating setting temperature +2°C (3°F)".

4.2.6 Dual setpoint setting

When Auto Cool/Heat operation mode is selected, this function can be used to set specific temperature set point for cooling operation mode and for heating operation mode.

To use this function, Auto Cool/Heat operation mode shall be activated on the wired remote controller. Refer to the optional parameter b8 in the function selection menu for details.

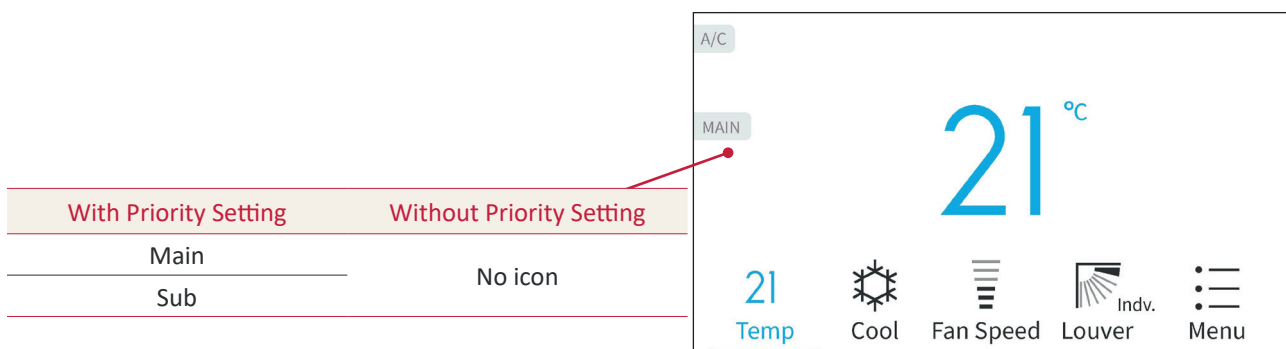
- 1 Select "Service Menu" on the Service & Installation screen and press "OK".
- 2 Select "Dual Setpoint" and press "OK".
- 3 Press "▲" or "▼" to select "ON" or "OFF".
- 4 Press "OK" to confirm the setting.
- 5 Press "↶" to return to Step2.



4.2.7 Main/Sub Display Setting

The display of the main / sub setting of the remote controller can be deactivated from this menu.

- 1 Select "Service Menu" on the Service & Installation screen and press "OK".
- 2 Select "Main/Sub Display" and press "OK".
- 3 Press "▲", "▼", "◀", or "▶" to select "Not Display".
- 4 Press "OK" to confirm the setting.
- 5 Press "↶" to return to Step2.

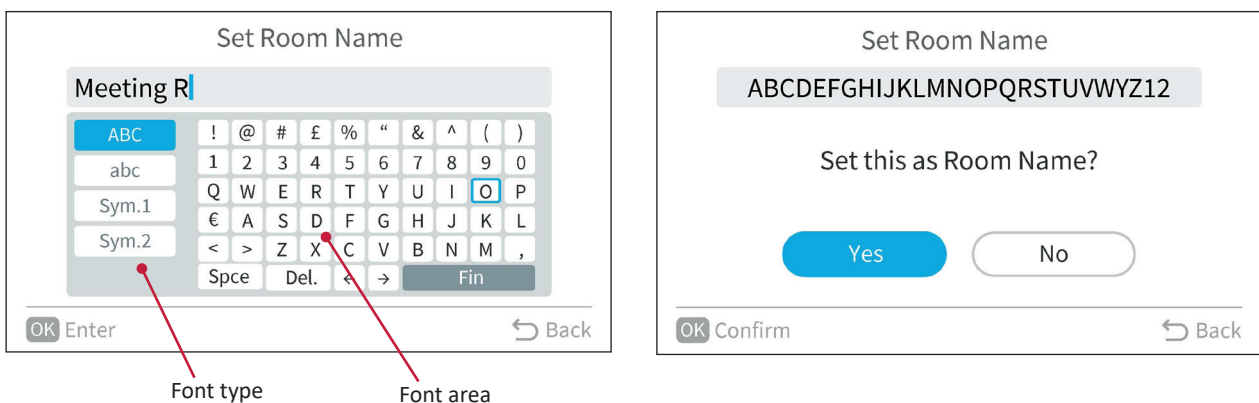


4.2.8 Room Name Setting

Register the installation location of the controller.

- 1 Select "Service Menu" on the "Service & Installation" screen and press "OK".
- 2 Select "Set Room Name" and press "OK".
- 3 Press "<" to move cursor to font type. Press "^" or "v" to select the font type. Each time you want to change the font type, move cursor to the first character on the first line at the upper left corner of the screen, then press "<" to select the font type.
- 4 Press ">" to move the cursor to the font area. Press "^", "v", "<", or ">" to select the font and press "OK" to register it (up to 32 characters can be registered).
- 5 After registration, select "Fin" and press "OK".
- 6 The confirmation screen is displayed. Select "Yes" and press "OK" to confirm the settings and Step2 is displayed.

If "No" is selected, the screen returns to Step3.



4.2.9 Contact Information Registration

Register a service contact (service address and service telephone number are recommended).

- 1 Select "Service Menu" on the "Service & Installation" screen and press "OK".
- 2 Select "Set Contact Information" and press "OK".
- 3 "Contact Information1" screen is displayed. Press "<" to move cursor to font type. Press "^" or "v" to select the font type. Each time you want to change the font type, move cursor to the first character on the first line at the upper left corner of the screen, then press "<" to select the font type.
- 4 Press ">" to move cursor to the font area. Press "^", "v", "<", or ">" to select the font and press "OK" to register it (up to 60 characters can be registered).
- 5 After registration, select "Fin" and press "OK".
- 6 "Contact Information2" screen is displayed, repeat Step3, Step4 and Step5.
- 7 Select "Yes" and press "OK" to confirm the setting and Step2 is displayed.

If "No" is selected, the screen returns to Step3.

Contact Information1

! @ # £ % " & ^ ()

1 2 3 4 5 6 7 8 9 0

Q W E R T Y U I O P

€ A S D F G H J K L

< > Z X C V B N M ,

Spce Del. ← → Fin

OK Enter Back

Contact Information

ABCDEFGHIJKLMNOPQRSTUVWXYZ12

ABCDEFGHIJKLMNOPQRSTUVWXYZ12

Register these contents?

Yes No

OK Confirm Back

4.2.10 NFC Setting

Read and write various settings on the remote control using the "airCloud Tap" application is available.

1 Download App

To download the "airCloud Tap" application, search for it on the "App Store®"^{*1} or "Google Play"^{*2}. Alternatively, you can scan the code provided below with your smartphone to directly access the application.



airCloud Tap application will be available on the stores for EU area within September 2023.

**1: App Store® is a service mark of Apple Inc.*

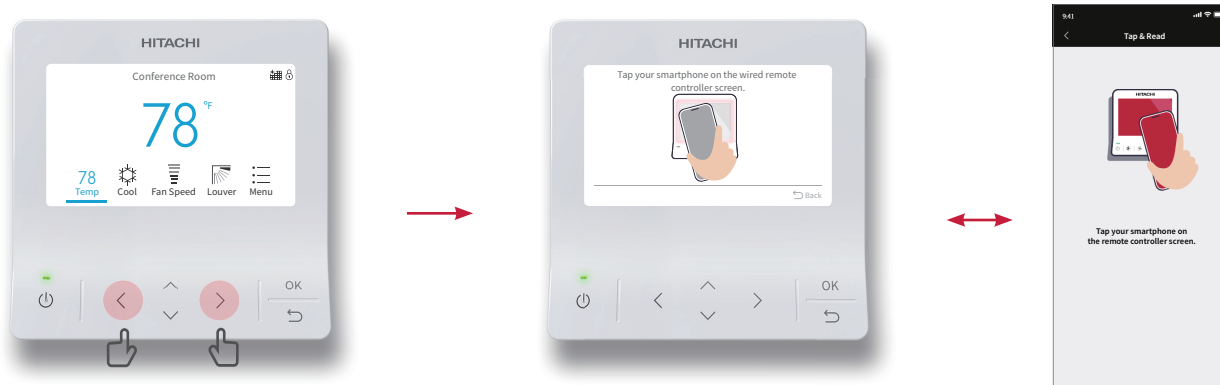
**2: Google Play and the Google Play logo are trademarks of Google LLC.*

NOTE

An internet connection is required to download, update, or use airCloud Tap (user registration, etc.). Customers are responsible for internet communication costs.

2 Press and hold "<" and ">" on the wired remote controller for 3 seconds to display the NFC screen.^{*3*4}

Setting data can be read and written from the "airCloud Tap" application only when this NFC screen is displayed.



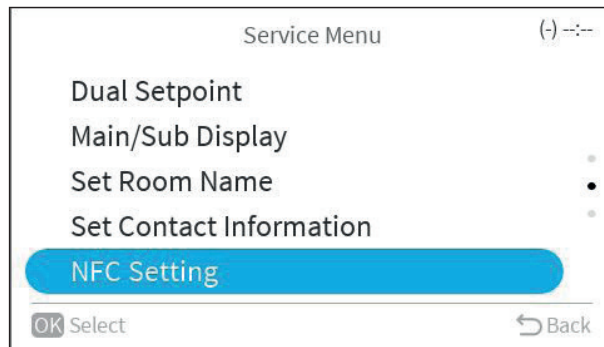
**3: "NFC setting" must be enabled to use the NFC function. The default setting is "enable".*

**4: NFC receiver transmission band: 13.553~13.567MHz.*

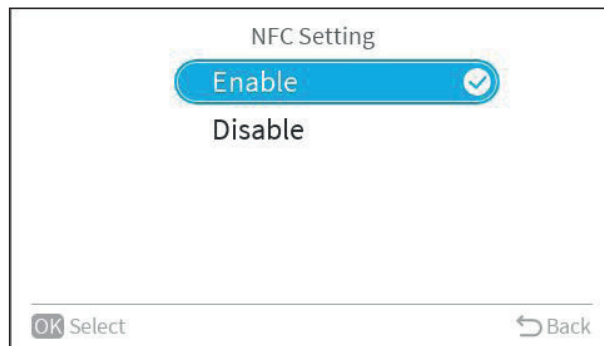
**5: When reading data from "Check1", "Check2" and "Check PCB of the Units", the operation procedure is different.*

To Enable / Disable NFC function:

- 1 Select "Service Menu" on the "Service & Installation" screen and press "OK".
- 2 Select "NFC Setting" and press "OK".



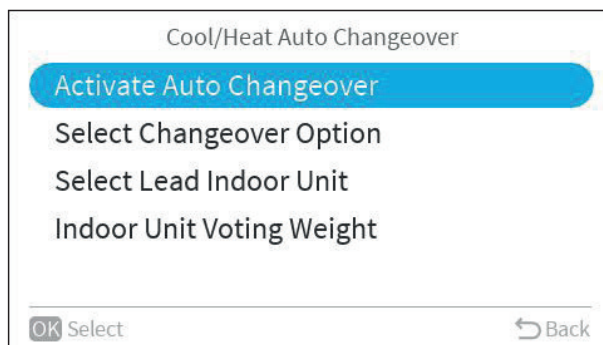
- 3 Press "▲" or "▼" to select "Enable" or "Disable".



4.2.11 Cool/Heat Auto Changeover

The changeover system is the logic that decides whether to activate the cooling mode or the heating mode, evaluating the condition of the indoor units and the temperature of the rooms, for 2 pipes application (as simultaneous cooling and heating is not available).

With previous models, “First-in” logic was the only option, this new function setting from WRC allows to select between three new settings in addition to improve the comfort for all applications:



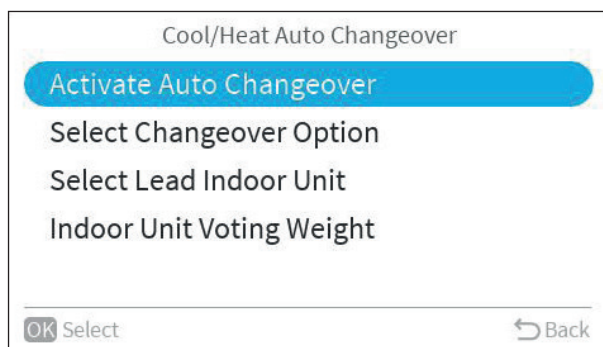
NOTE

- *Cool/Heat Auto changeover can be performed on a system when there is at least one indoor unit + wired controller combination supporting this function:*
 - » *Indoor unit compatible with this Cool/Heat Auto changeover.*
 - » *PC-ARFG2-E/EB wired controller.*
- *Cool/Heat Auto Changeover and Priority setting as main WRC cannot be set at the same time. Also, Priority setting as main WRC is cancelled when Cool/Heat Auto Changeover is enabled.*
- *When 2 wired controllers are connected to the same indoor unit (or group of indoor units), Cool/Heat Auto Changeover can be set only from the primary wired remote controller.*

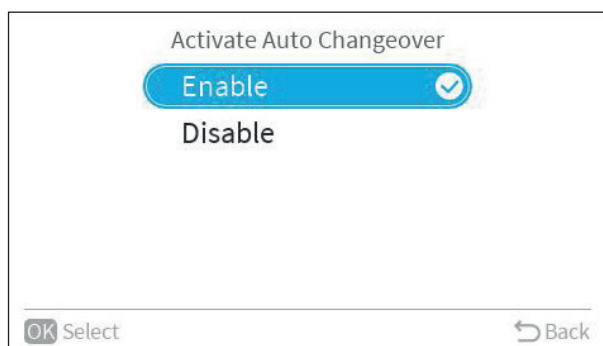
Setting Item	Description
Activate Auto Changeover	Enables/Disables Cool/Heat Auto Changeover
Select Changeover Option	Changes Cool/Heat Auto Changeover modes: Temperature Demand Analysis, Indoor Unit Majority Vote, and Lead Unit Priority.
Select Lead Indoor Unit	Set the indoor unit(s) controlled by the wired controller as lead unit or follower unit. When Select Lead Indoor Unit is selected under Select Changeover Option, the operation mode is determined based on the mode set to the lead unit.
Indoor Unit Voting Weight	Set the voting weight of the indoor unit(s) controlled by the related wired controller. Selectable from *1, *2, *3, or *0.

4.2.11.1 Activate Auto Changeover

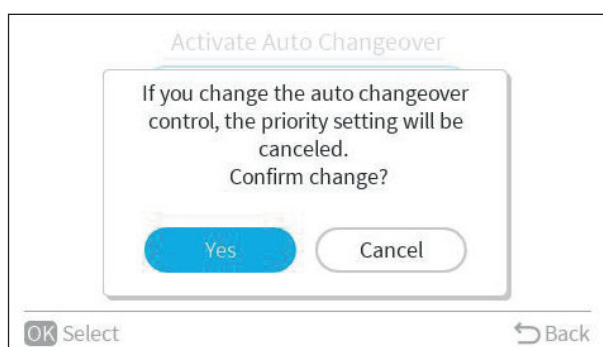
- 1 On the Service & Installation screen, select “Cool/Heat Auto Changeover”.
- 2 Select “Activate Auto Changeover” and press the “OK” button.



- 3 Press the “^” and “v” buttons and select “Enable”. Press the “↶” button to return to Step 2.



- 4 Use the “<” and “>” buttons and select “Yes” and press the “OK” button. The screen will return to Step 3.



4.2.11.2 Select Changeover Option

This function is used to change Cool/Heat Auto Changeover modes: Temperature Demand Analysis, Indoor Unit Majority Vote, and Lead Unit Priority.

Mode	Description
Temperature Demand Analysis	Determines the operation mode by the total temperature difference (Cooling setting: Indoor unit inlet air temperature - Indoor unit setting temperature, Heating setting: Indoor unit setting temperature - Indoor unit inlet air temperature) of all units.
Indoor Unit Majority Vote	The operation mode is determined by the total of number of all indoor units in operation.
Lead Unit Priority	The operation mode is determined by the assessment of the demand from all the indoor units in operation, following the voting weight of each indoor unit.

◆ Temperature Demand Analysis

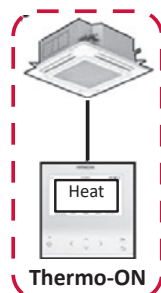
The system is assessing the situation in all the rooms for which this auto changeover mode is activated, measuring the difference between Room temperature and Set point. The global result is then used to decide if the system shall run in heating or cooling mode.



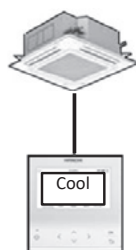
Heating

Cool/Heat Auto Changeover Disabled (Remote Controller First-Demand Priority)

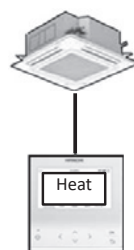
In the remote controller first-press priority, no matter how hot a room is, it cannot be switched to cooling operation until after the outdoor unit is stopped.



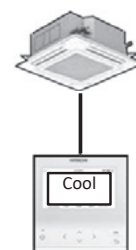
Thermo-ON
First Request
Temperature
Difference: 1°C



Thermo-OFF
Temperature
Difference: 4°C



Thermo-ON
Temperature
Difference: 1°C



Thermo-OFF
Temperature
Difference: 4°C

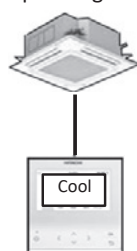
↓
Total temperature difference between the indoor units requesting cooling operation : 8°C >
Total temperature difference between the indoor units requesting heating operation : 2°C



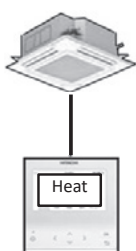
Cooling

Cool/Heat Auto Changeover Enabled (Temperature Demand Analysis)

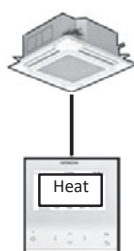
In the Temperature Demand Analysis mode, the system automatically determines the appropriate operation mode according to the global temperature difference situation for all the operating indoor units.



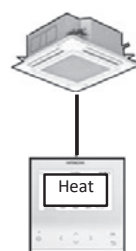
Thermo-OFF



Thermo-ON



Thermo-OFF



Thermo-ON

◆ Indoor Unit Majority Vote

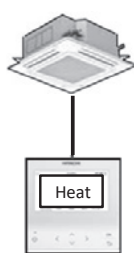
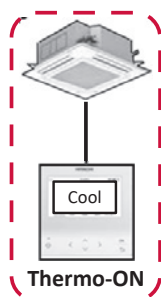
The numbers of the indoor units requesting cooling operation and the number of those requesting heating operation are compared, and the operation mode is switched to the operation requested from the indoor units with larger number of requests.



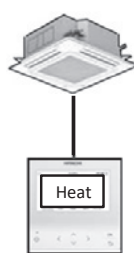
Cooling

Cool/Heat Auto Changeover Disabled (Remote Control First-Demand Priority)

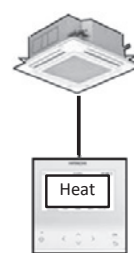
In the remote control first-demand priority mode, the operation cannot be switched to the heating operation until after the outdoor unit stops, no matter how much the heating operation request increases.



Thermo-OFF



Thermo-OFF



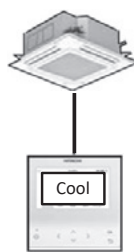
Thermo-OFF



Heating

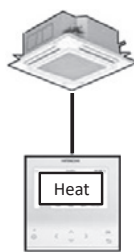
Cool/Heat Auto Changeover Enabled (Indoor Unit Majority Vote)

In the system automatically determines the appropriate operation mode according to the demand from the indoor units. This demand is determined by the vote of each indoor unit, considering the voting factor of each unit.



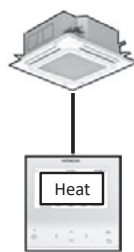
Thermo-OFF

Voting weight: 2



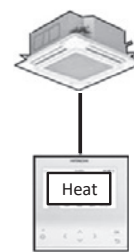
Thermo-ON

Voting weight: 1



Thermo-ON

Voting weight: 3

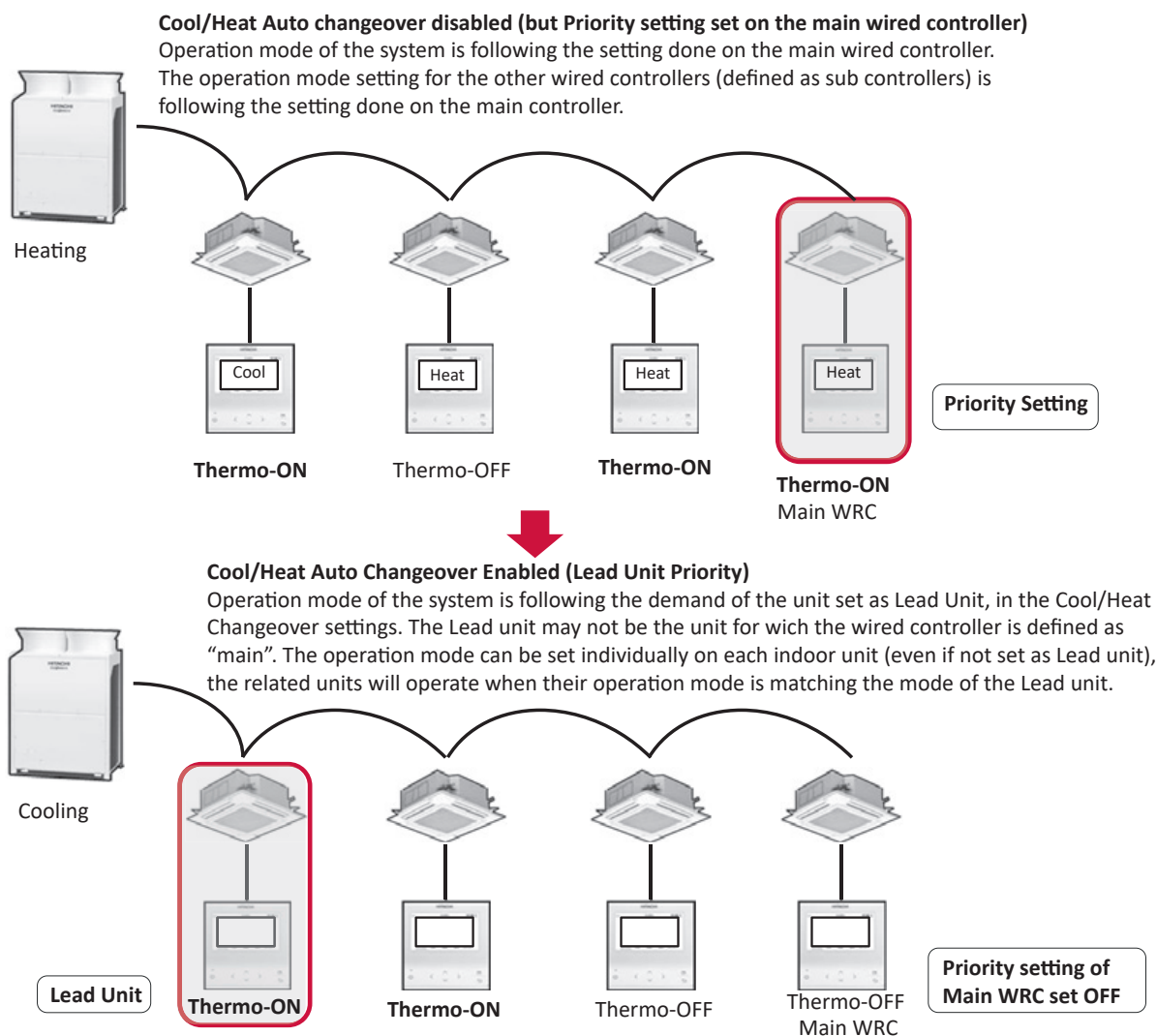


Thermo-ON

Voting weight: 1

◆ Lead Unit Priority

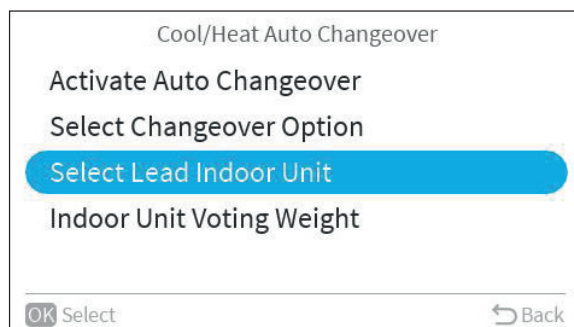
Operation mode of the system is following the demand of the Lead indoor unit.



4.2.11.3 Select Lead Indoor Unit

This setting was created to select one specific indoor unit as decision maker, to impose the operation mode to the system. One indoor unit can be selected as the “lead” unit, other units on the same 2 pipes VRF system shall be set to “follower”.

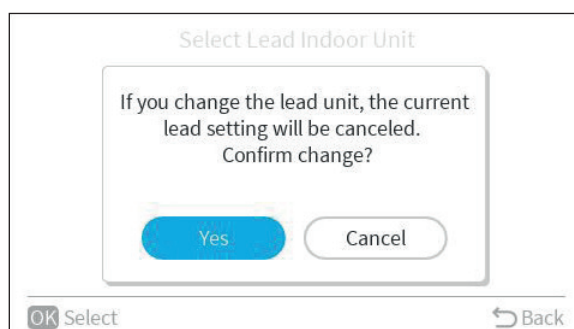
- 1 On the Service & Installation screen, select “Cool/Heat Auto Changeover”.
- 2 Select “Select Lead Indoor Unit” and press the “OK” button.



- 3 Press the “^” and “v” buttons and select “Lead Unit”. Press the “↶” button to return to Step 2.



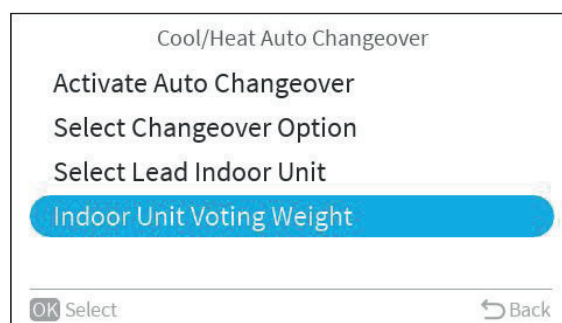
- 4 Use the “<” and “>” buttons and select “Yes” and press the “OK” button. The screen will return to Step 3.



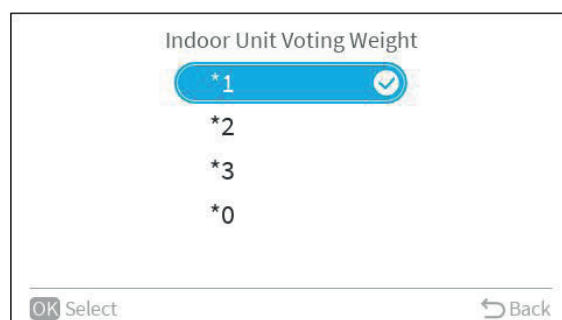
4.2.11.4 Indoor Unit Working Weight

This feature is used to introduce a priority for some units, to make the influence of one of several units more important than standard indoor units (example: more influence for the director's office than for a meeting room). A voting weight menu is available to setup the influence ratio, from 0 (standard influence) to 3 (very high influence).

- 1 On the Service & Installation screen, select "Cool/Heat Auto Changeover".
- 2 Select "Indoor Unit Voting Weight" and press the "OK" button.



- 3 Press the "∧" and "∨" buttons to change the options in the following order: "*1" <=> "*2" <=> "*3" <=> "*0"

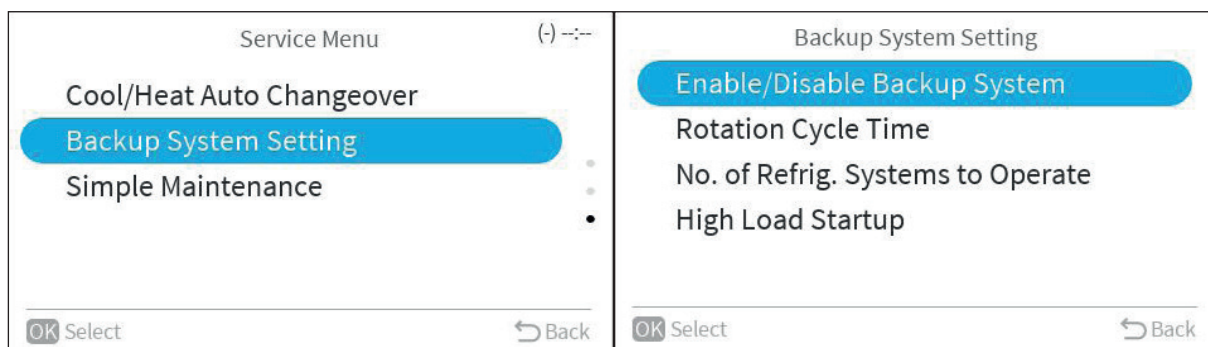


4.2.12 Backup System Setting (management of technical rooms)

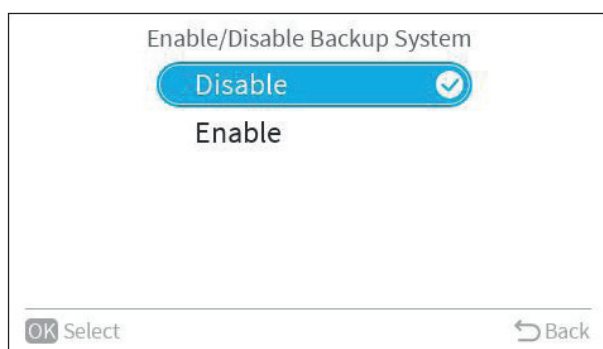
This function is applicable to the condition to the air conditioners in the room that need to be turned ON for 24 hours.

To Enable / Disable Backup System function:

- 1 Select "Service Menu" on the "Service & Installation" screen and press "OK".
- 2 Select "Backup System Setting" and press "OK".
- 3 Select "Enable/Disable Backup System" and press "OK".



- 4 Press "▲" or "▼" to select "Enable" or "Disable".

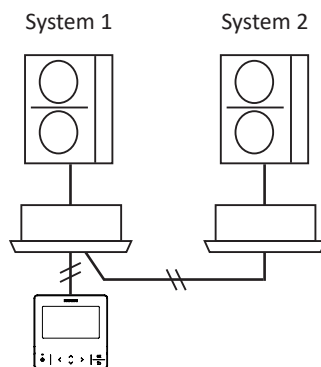


Rotation operation

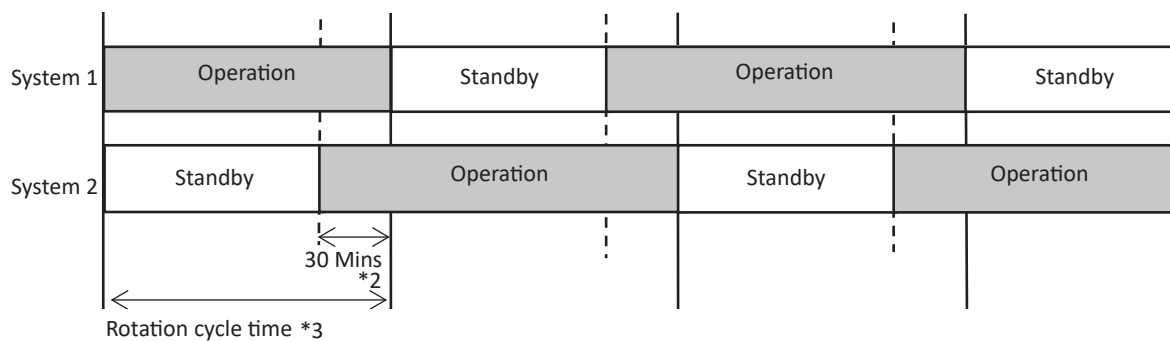
This function can make each refrigerant system run alternately, so that there will be not too much operation time difference between air conditioners.

The standby system is in thermo-off(*1).

- System Example



- Rotation procedure



*1: The number of operating systems can be selected from one to three of the two to four systems that the backup system can use.

*2: In order to stabilize the operation state, it shall be started before 30 minutes.

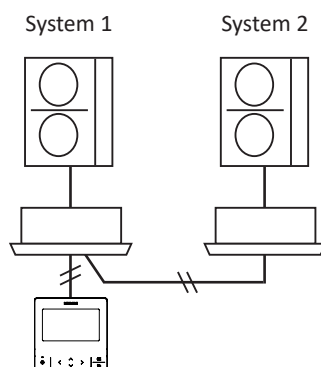
*3: Choose from "9 hours"(default), "24 hours", "48 hours", "72 hours" and "96 hours".

Backup operation when abnormality occurs

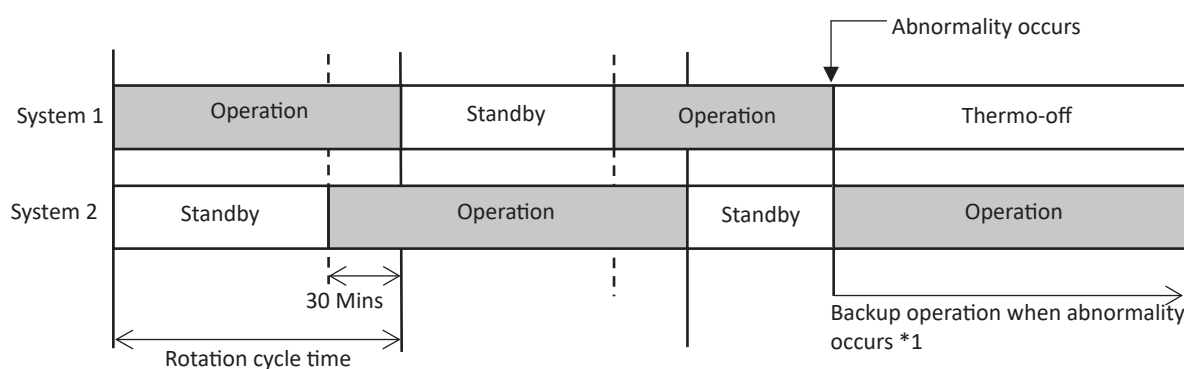
If an abnormality occurs during the rotation operation, the standby refrigerant systems return back to operation.

Backup operation when abnormality occurs

- System Example



- Rotation procedure when abnormality occurs

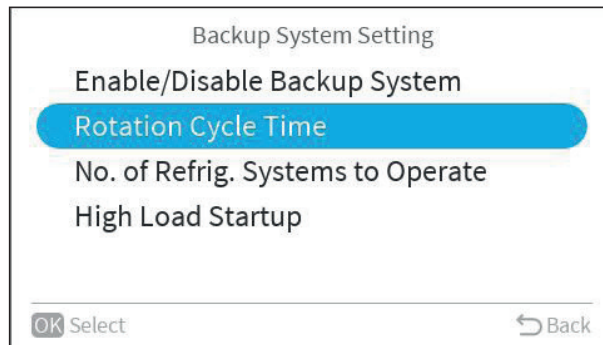


**1: When the abnormality is resolved, it returns to the rotation operation. Backup operation runs for at least 30 minutes when abnormality occurs. All standby systems are in backup operation when abnormality occurs.*

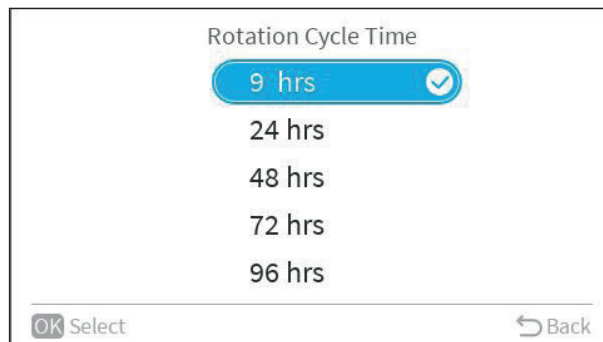
Rotation cycle time

To select the Rotation cycle time:

- 1 Select "Service Menu" on the "Service & Installation" screen and press "OK".
- 2 Select "Backup System Setting" and press "OK".
- 3 Select "Rotation Cycle Time" and press "OK".



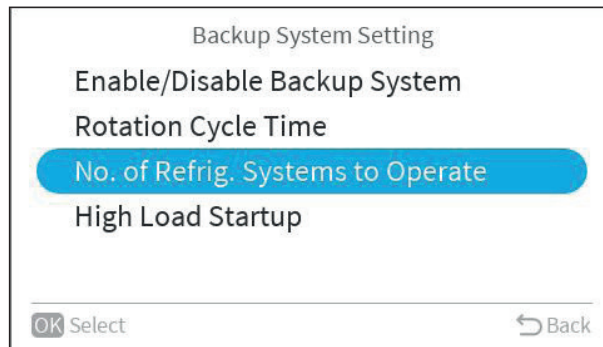
- 4 Rotation cycle time can be set from "9 hours"(default), "24 hours", "48 hours", "72 hours" and "96 hours". Press "▲" or "▼" to select.



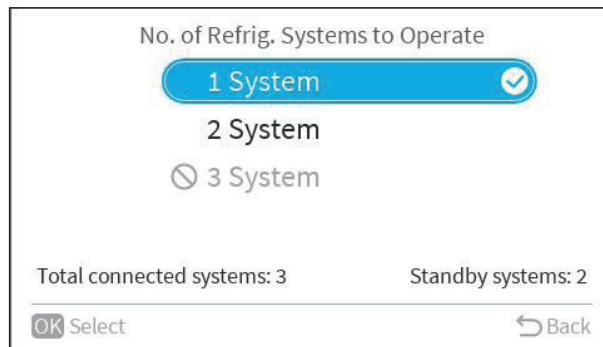
Number of Refrigerant Systems to Operate

This function is to set the numbers of refrigerant systems to operate in rotation.

- 1 Select "Service Menu" on the "Service & Installation" screen and press "OK".
- 2 Select "Backup System Setting" and press "OK".
- 3 Select "Number of Refrigerant Systems to Operate" and press "OK".

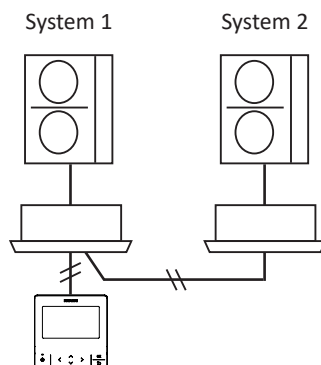


- 4 Press "▲" or "▼" to select the number of refrigerant systems.

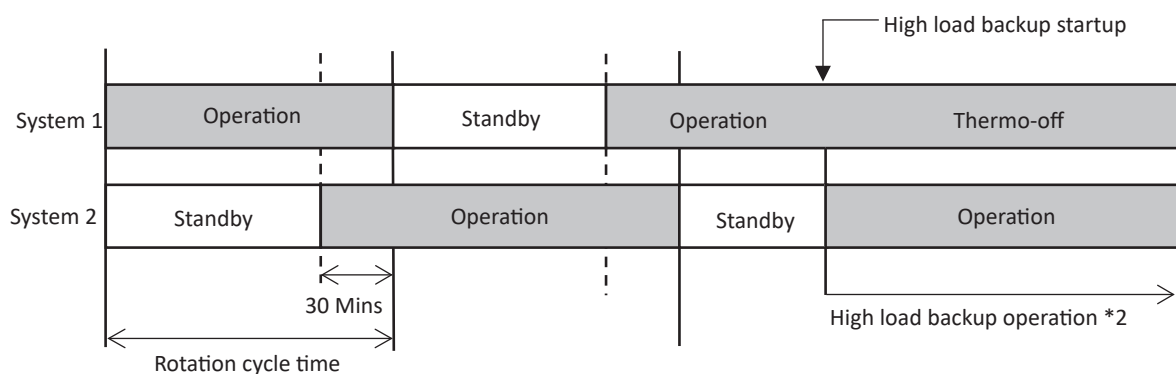


High Load Startup

If there is a difference between the room temperature and the setting temperature (*1), the standby refrigerant systems start to operate.



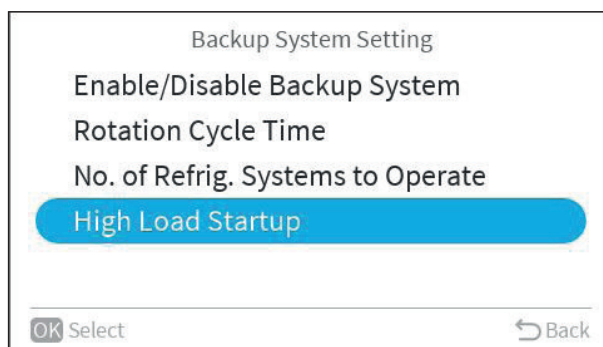
- Procedure of high load backup operation



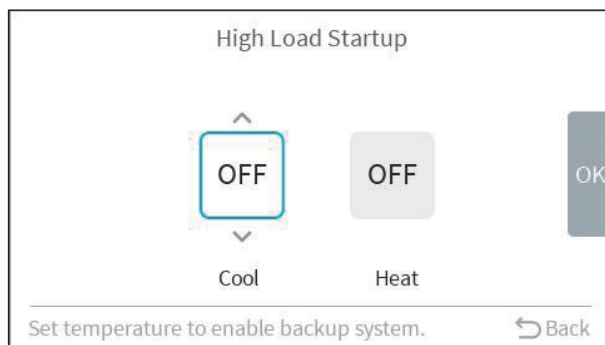
(*1) Cooling/Heating: 2° C to 5° C (2° F to 5° F).

(*2) When the high load backup operation is finished, it turns into the rotation operation. All standby systems are in operation.

- 1 Select "Service Menu" on the "Service & Installation" screen and press "OK".
- 2 Select "Backup System Setting" and press "OK".
- 3 Select "High Load Startup" and press "OK".



- 4 Press “^” or “v” to select the setting temperature.



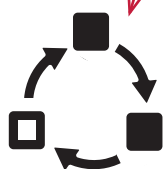
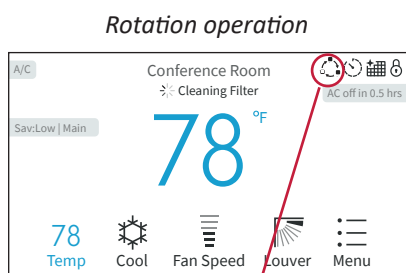
- 5 Press “>” to select and press “OK” to return to step1.

NOTE

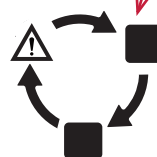
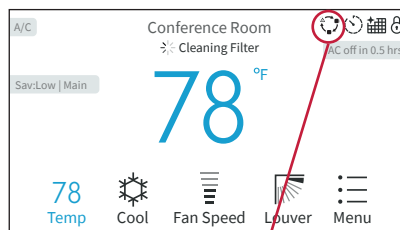
High load startup is available only when outdoor and indoor units support it.

Screen Display

The screen of wired remote controller in backup system is shown as below.



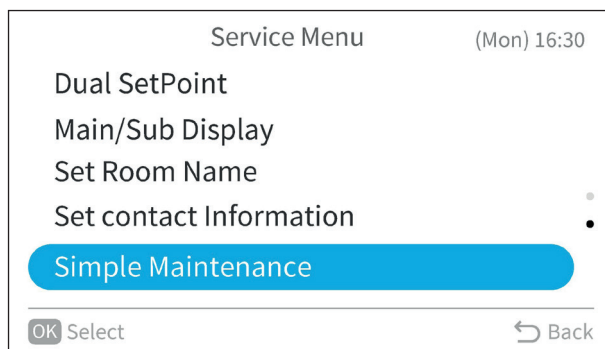
Backup operation when abnormality occurs



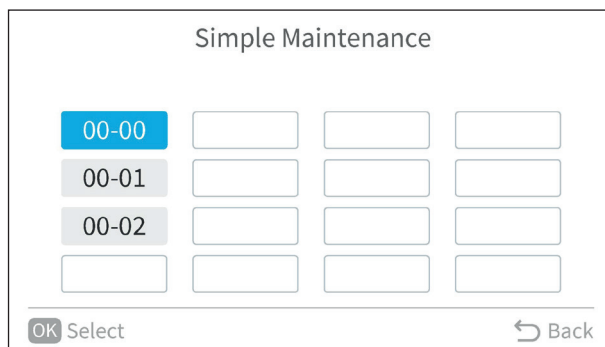
4.2.13 Simple Maintenance

This menu is available if the optional setting “JA” is set to 01 from the function selection menu. From this menu, some parameters like operating times and some items of the check mode can be displayed from the “Service Menu”.

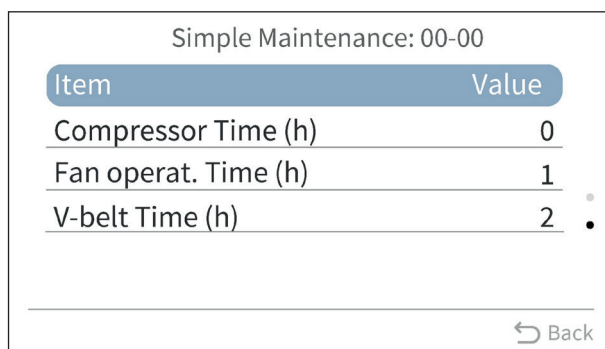
- 1 Select “Simple Maintenance” on the “Service Menu” screen and press “OK”.



- 2 Press “^”, “v”, “<”, or “>” to select the indoor unit. Press “OK”. If there is only one indoor unit connected to the wired remote controller, this screen is not displayed (the screen of Step3 is shown).



- 3 Press “^” or “v” to change the page of Simple Maintenance data.



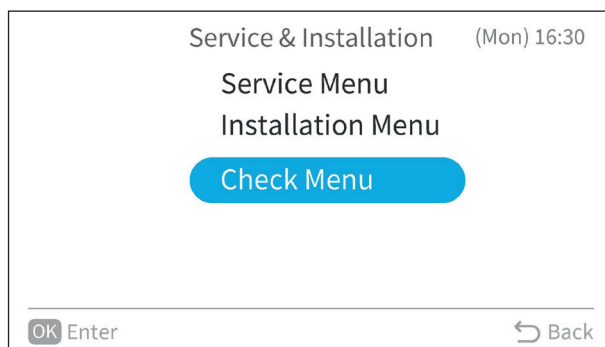
◆ List of Simple Maintenance Function

No.	Item	Note
1	Compressor Time	Some units do not support this function.
2	Fan operation time	
3	V-belt Time	
4	Inlet Air Temperature	Corresponds to item "b2" in Check 1.
5	Outlet Air Temperature	Corresponds to item "b3" in Check 1.
6	Indoor Unit Liquid Piping Temperature	Corresponds to item "b4" in Check 1.
7	Indoor Unit Gas Piping Temperature	Corresponds to item "b7" in Check 1.
8	Outdoor Temperature	Corresponds to item "b6" in Check 1.
9	Outdoor Unit Pipe Temperature	Corresponds to item "b8" in Check 1.
10	Compressor Temperature	Corresponds to item "bA" in Check 1.
11	Discharge	Corresponds to item "H1" in Check 1.
12	Inlet Pressure	Corresponds to item "H2" in Check 1.
13	Compressor Current	Corresponds to item "P1" in Check 1.

4.3 Check Menu

This menu displays various statuses of the air conditioner.

- 1 Select "Check Menu" on the Service & Installation screen and press "OK".

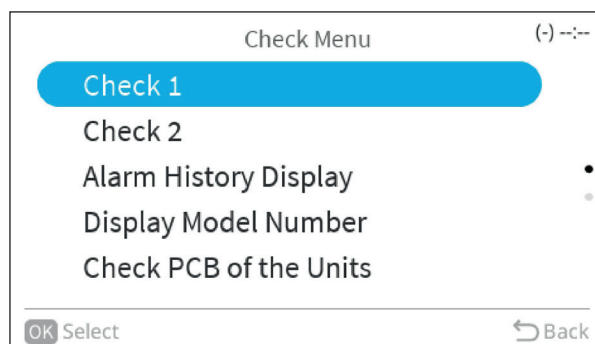


Each "Check Menu" item and its function is explained in the following table.

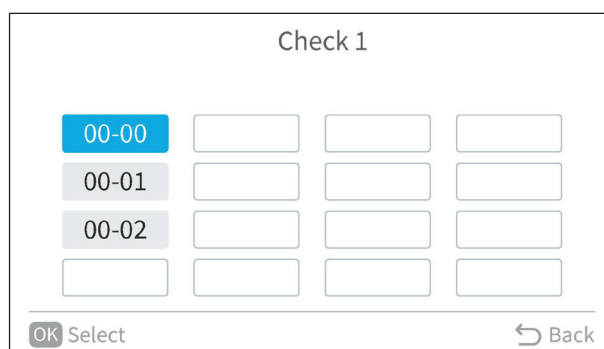
Item	Function
Check 1	Indoor unit operation parameters are displayed in real time. (Sensor condition of the heat pump are monitored and displayed).
Check 2	Indoor unit operation parameters recorded at the last alarm occurrence moment are displayed. (Sensor data from the heat pump prior to alarm occurrence is displayed).
Alarm History Display *	Alarm history including date, time, indoor unit number, and alarm code is displayed. (30 Max) The alarm history can be deleted. *
Display Model Number	Model name and manufacturing number are indicated.
Check PCB of the Units	The result and diagnosis of PCB check is displayed.
Self Check	The controller checkout process begins and various settings of the controller are initialized..

4.3.1 Check 1 / Check 2

- 1 Select "Check 1" or "Check 2" on the "Check Menu" screen and press "OK".



- 2 Press "↑", "↓", "←", or "→" to select the indoor unit. Press "OK". If there is only one indoor unit connected to the wired remote controller, this screen is not displayed (the screen in Step 3 is shown).



- 3 Press "↑" or "↓" to change the page of check data.

Check 1: 00-02			
Item	Value	Item	Value
b1	28	b6	84
b2	25	b7	33
b3	23	b8	8
b4	25	b9	8
b5	--	bA	20

Long Press for 3 Seconds
 Back

NOTE

- By pressing and holding "↓" for 3 seconds or longer, the items are displayed with a description, translated in the selected language. The text displayed is for reference. Refer to the technical resource for each indoor unit for details.

Check 1 : 01-01

Item	Value
b1 Set Temp. (°C)	12
b2 Inlet Air Temp (°C)	96
b3 Discharge Air Temp. (°C)	9
b4 Liquid Pipe Temp. (°C)	41
b5 Remote Thermistor Temp. (°C)	30

✓ Long Press for 3 Seconds

↶ Back

- Press “OK” to get pass the information screen.

Check 1 : 01-01

Item	Value
bb	76
bc	29
C1	68
C2	92
C3	25

OK Select

↶ Back

The text displayed is for reference.
Refer to the technical resource for
each unit for details.

OK

- A list of items will be displayed with the corresponding item description and its value. Short press “✓” to browse through the items. By pressing “↶” once, the display returns to the first items list screen. By pressing “↶” again the display returns back to the “Check 1” screen.

Check 1 : 01-01

Item	Value
b1 Set Temp. (°C)	12
b2 Inlet Air Temp (°C)	96
b3 Discharge Air Temp. (°C)	9
b4 Liquid Pipe Temp. (°C)	41
b5 Remote Thermistor Temp. (°C)	30

✓ Long Press for 3 Seconds

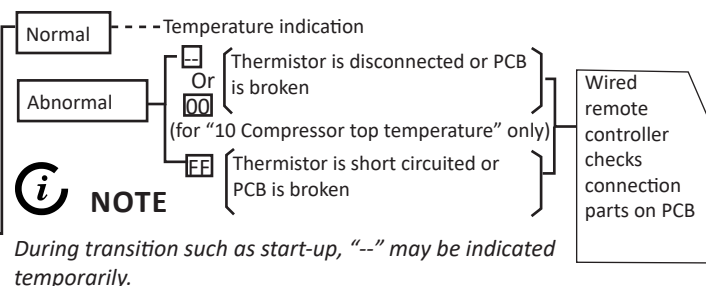
↶ Back

◆ Checking the current operating condition

Contents in Check 1

Temperature Status Display			
1	Set Temperature	b1	22
	↓		
2	Inlet air temperature	b2	20
	↓		
3	Outlet air temp	b3	55
	↓		
4	Liquid pipe temp.	b4	20
	↓		
5	Remote thermistor temperature	b5	25
	↓		
6	Outdoor temp.	b6	10
	↓		
7	Gas pipe temperature	b7	25
	↓		
8	Evaporating temperature at heating	b8	02
	↓		
9	Control information	b9	--
	↓		
	Condensing temperature at cooling	b9	06
	↓		
10	Compressor top temperature	bA	41
	↓		
11	Thermo temperature of wired controller	bb	23
	↓		
12	Control information	bC	00
	↓		
Unit control display			
13	IU Micro-computer	C1	↯
	↓		
14	O.U Micro-computer	C2	-
	↓		
15	IU Control software number	C3	0000
	↓		
Continue to next page			

When Auto Cool/Heat is activated with the dual set point option, both temperature settings are displayed by "b1" parameter



The value is indicated only when the remote thermistor is installed. Otherwise "--" is indicated.

For the indoor unit with multiple thermistors. For Evaporating Temperature at Heating, the minimum temperature is indicated.

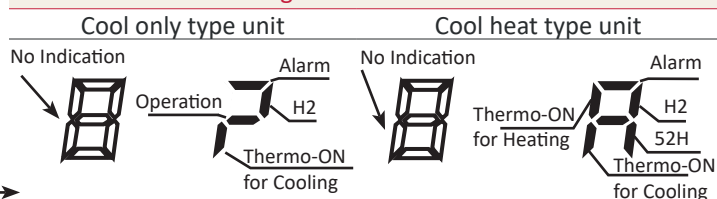
The internal information of the wired remote controller is indicated. For multi-type indoor units, the number of running compressors is indicated.

The inlet gas temperature is indicated.

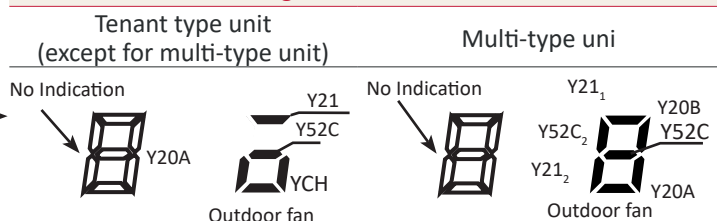
"FF" is indicated if the temperature is above 201°C. For the indoor unit installed with multiple compressors, the average temperature of the running compressor is indicated.

For flexible multi-type, the value of Inverter Compressor in Unit A is indicated.

Segments Indication



Segments Indication



NOTE

If the (output) relay is not listed depending on the type of the indoor unit, there is no indication.

Continue from previous page



Stopping cause state indication

16 Stopping cause state indication d1 01



Continue to next page

Refer to "Cause of Indoor Unit Stoppage"

◆ Cause of Stoppage

Code	Cause
01	Operation OFF, Power OFF
02	Thermo-OFF
03	Alarm*1
04	Freeze Protection, Overheating Protection
05	Instantaneous Power Failure at Outdoor Unit/Reset*2
06	Instantaneous Power Failure at Indoor Unit/Reset*3
07	Stoppage of Cooling Operation due to Low Outdoor Air Temperature Stoppage of Heating Operation due to High Outdoor Air Temperature
09	Stoppage of Reversing Valve Switching Control
10	Demand Enforced Stoppage
11	Retry due to Pressure Ratio Decrease
12	Retry due to Low Pressure Increase
13	Retry due to High Pressure Increase
14	Retry due to Abnormal Current of Constant Speed Compressor
15	Retry due to Vacuum Abnormality, Discharge Gas Temperature Increase
16	Retry due to Decrease of Discharge Gas Superheat
17	Retry due to Inverter Tripping
18	Retry due to Voltage Decrease, Other Retry of Inverter
19	Expansion Valve Opening Change Protection
20	Operation Mode Difference between IDU and ODU/ Stoppage of Operation Mode Switching during Operation
21	Enforced Thermo-OFF*4
22	Enforced Thermo-OFF (Hot Start Control at Crankcase Heater Preheating)
23	Enforced Stoppage of compressor due to DIP switch (DSW) Setting
24	Thermo-OFF during Energy-Saving Operation
26	Retry due to High Pressure Decrease
27	Retry due to Operation of Outdoor Blower Protector
28	Stoppage due to Outlet Temperature Decrease in Cooling
29	Retry due to Abnormal Current during MS Motor Synchronous Operation
30	Stoppage of Thermo-OFF due to Compressor Excepting
32	Retry due to Abnormal Transmission of Outdoor Unit
33	Enforced Thermo-OFF due to Enforced Cleaning Operation
34	Stoppage of Thermo-OFF by Motion Sensor

Code	Cause
35	Retry due to Abnormal Refrigeration Cycle
36	Retry after Defrosting Operation

NOTE

- *1 Even if stoppage Alarm "02" is not always indicated. If the unit is Thermo-OFF due to another cause of stoppage prior to alarm occurrence, the code of the cause remains.
- *2 The outdoor unit equipped with an inverter resets ODU Micro-Computer if the transmission between inverter PCB and outdoor unit PCB is interrupted for 30 seconds. Therefore, the stoppage cause code when Alarm 04 occurs may be "05".
- *3 IDU Micro-Computer is reset if the transmission between the indoor unit and the outdoor unit is interrupted for 3 minutes. Therefore, the stoppage cause code when Alarm 03 occurs may be "06".
- *4 If the stoppage cause code "21" is indicated on the indoor unit of twin, triple, or quad, check the stoppage cause of other indoor unit numbers.

Continue from previous page			
↓			
Electronic Expansion Valve			
30	IDU Electronic Expansion Valve (%)	L1	20
↓			
31	ODU Electronic Expansion Valve (%)	L2	99
↓			
32	ODU Electronic Expansion Valve 2 (%)	L3	99
↓			
33	ODU Electronic Expansion Valve B (%)	L4	00
↓			
Compressor status (reference)			
↓			
34	Compressor Current (A)	P1	20
↓			
35	Compressor Time	P2	00000
Sensor Status Display			
36	Motion Detector Sensitivity (%)	q1	00
↓			
37	Radiant temperature sensor (°C)	q2	00
↓			
38	Motion Detector 1 Sensitivity (%)	q3	00
↓			
39	Motion Detector 2 Sensitivity (%)	q4	00
↓			
40	Motion Detector 3 Sensitivity (%)	q5	00
↓			
41	Motion Detector 3 Sensitivity (%)	q6	00
↓			
42	Setting Temperature Collected value (°C)	q7	00
↓			
Continue to next page			

For flexible multi-type, the value of Unit A is indicated.

The total value is displayed if multiple compressors are operating. Primary (input) current is displayed for inverter compressor.

Possible longest time is shown for multi-type units.

◆ Data just before the latest failure

Contents of Check 2

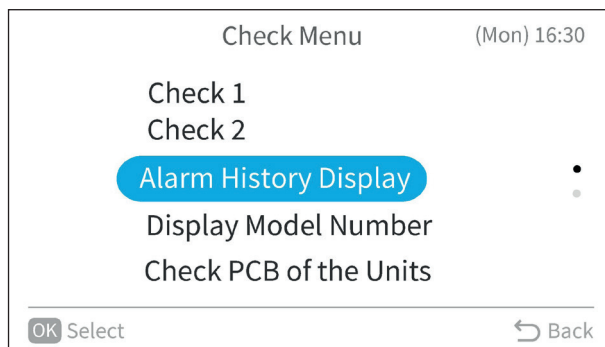
Press “V” to go to the next page. Press “^” to go to the previous page.

Continue from previous page				
				↕
Temperature Status Display				
1	Inlet Air Temperature	q1	23	→ Corresponds to item “b2” in Check 1.
				↕
2	Outlet Air Temperature	q2	50	→ Corresponds to item “b3” in Check 1.
				↕
3	IDU Heat Exchanger Liquid Piping (frozen) Temperature	q3	25	→ Corresponds to item “b4” in Check 1.
				↕
4	Outdoor Temperature	q4	12	→ Corresponds to item “b6” in Check 1.
				↕
5	Gas Pipe Temperature	q5	25	→ Corresponds to item “b7” in Check 1.
				↕
6	Evaporating Temperature at Heating	q6	03	→ Corresponds to item “b8” in Check 1.
				↕
7	Control Information	q7	--	→ Corresponds to item “b9” in Check 1.
				↕
8	Compressor temperature	q8	45	→ Corresponds to item “bA” in Check 1.
				↕
Pressure / Frequency				
				↕
9	Discharge Pressure	q9	18	→ Corresponds to item “H1” in Check 1. Unit is (×0.1MPa).
				↕
10	Inlet Pressure	qA	04	→ Corresponds to item “H2” in Check 1. Unit is (×0.1MPa).
				↕
11	Control Information	qb	44	→ Corresponds to item “H3” in Check 1.
				↕
12	Operating Frequency (Hz)	qC	44	→ Corresponds to item “H4” in Check 1.
				↕
Electronic Expansion Valve				
13	IDU Electronic Expansion Valve (%)	qd	20	→ Corresponds to item “L1” in Check 1.
				↕
14	ODU Electronic Expansion Valve1 (%)	qE	99	→ Corresponds to item “L2” in Check 1.
				↕
Current Value (reference)				
15	Compressor Current (A)	qF	20	→ Corresponds to item “P1” in Check 1.

4.3.2 Alarm History Display

Alarm history can be browsed and deleted.

- 1 Select "Alarm History Display" on "Check Menu" and press "OK".



- 2 Press "▲" or "▼" to change "Alarm History Display" page.

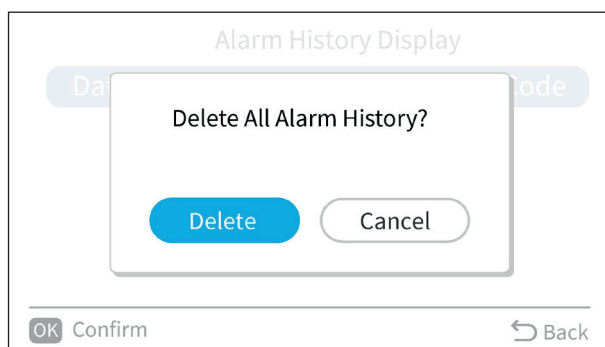
Date	Time	IDU	Code
20--/--/--	--:--	00-00	03
20--/--/--	--:--	00-01	50
20--/--/--	--:--	00-02	35
20--/--/--	--:--	00-03	A1
20--/--/--	--:--	00-04	08

At the bottom of the screen, there are buttons for 'OK Delete' and 'Back'.

- 3 Press "OK" to delete alarm history, confirmation window appears.

Select "Delete" and press "OK". Alarm history is deleted and the screen returns to Step2.

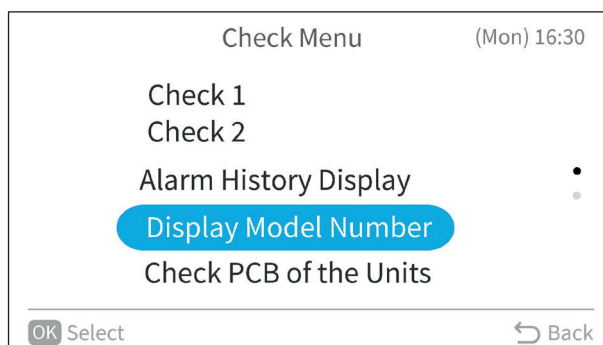
When "Cancel" is selected, the screen returns to the Step2.



4.3.3 Model display function

Model type, unit type, and unit number are shown (this information is available only for compatible indoor units)

- 1 Select "Display Model Number" on "Check Menu" and press "OK".



- 2 System and Address.

System and address of the indoor units that are connected to Wired Remote Controller are shown in a list.

Selected indoor unit is highlighted.

The following information on indoor units that are connected to Wired Remote Controller are shown in turn.

- a. System and address
- b. Model type number of the outdoor unit
- c. Model type and unit number of the indoor unit
- d. Model type and unit number of the outdoor unit

If multiple indoor units are connected to the Wired Remote Controller, (a) to (d) are shown in turn for each indoor unit.

After showing all information for all indoor units, check menu screen is automatically shown.

- 3 Model type of the outdoor unit is shown on right bottom of the screen.

Indication	Model type
b	PAC inverter models (independent operation unit (including single unit)
F	PAC inverter models (*) (simultaneous operation unit (including single unit) Multi-types (Cool and heat/Cooling only)
U	Air conditioners for facility (Remote control switch constant speed type). Air conditioner (Standard)
C	Cooling only unit
L	Total Heat Exchanger
U1	Air conditioner (intermediate temperature)
o1	Intermediate temperature air conditioners for industrial use Air conditioners for facility (separate type) (Remote controller inverter type) Large floor type
E	Others

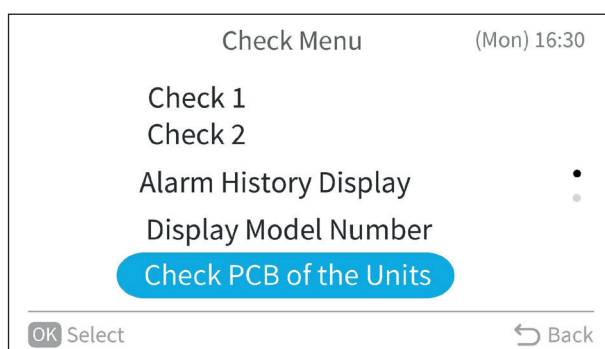
* For former outdoor units (models before 2010 April), "P" is shown.

- 4 Unit number of the indoor unit/outdoor unit is shown on right bottom of the screen, note that not all units show the model type or unit number. Unit number consists of 8 numbers but only the last 6 numbers are shown on Wired Remote Controller.

4.3.4 Check PCB of the Units

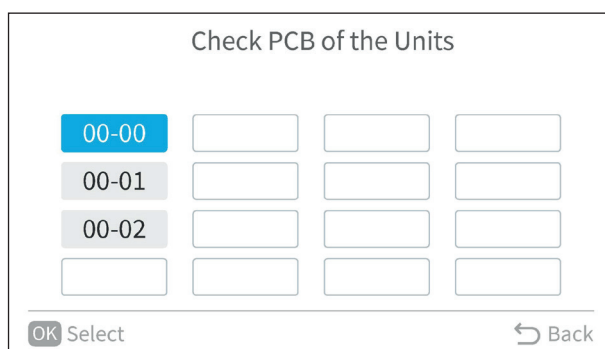
This function is used to Self check the PCB of the indoor and outdoor units.

- 1 Select "Check PCB of the Units" on the "Check Menu" screen and press "OK".



- 2 Press "↑", "↓", "←", or "→" to select the indoor unit. Press "OK".

If there is only one indoor unit connected to the wired remote controller, this screen is not displayed (the screen in Step3 is shown).



3 Check result is shown.

00-00

Check 1: Checking
Check 2: Checking
Check 3: Checking

↩ Back

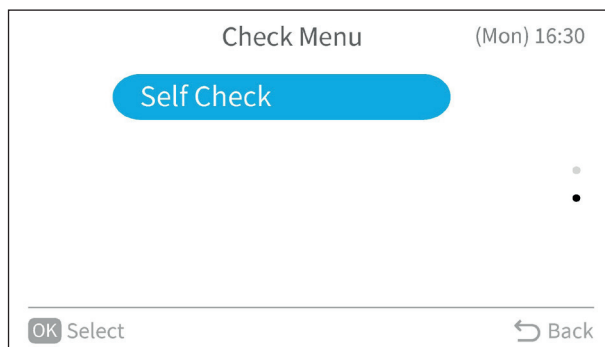
◆ Unit check result

Indoor Unit PCB	
00	Normal
01	Abnormality of inlet air temperature thermistor
02	Abnormality of outlet air temperature thermistor
03	Abnormality of liquid temperature thermistor
04	Abnormality of remote thermistor
05	Abnormality of gas pipe temperature thermistor
07	Abnormality of transmission of outdoor unit
08	Abnormality of transmission of central station
0A	Abnormality of EEPROM
0b	Zero Cross input Failure
EE	Abnormality of transmission of Indoor unit during check (Wired remote controller ↔ Indoor unit)
Outdoor Unit PCB	
00	Normal
F4	ITO Input failure
F5	PSH Input failure
F6	Abnormality of protection signal detection circuit
F7	Abnormality of phase detection
F8	Abnormality of transmission of inverter
FA	Abnormality of high pressure sensor
Fb	Abnormality of compressor discharge gas temperature thermistor
FC	Abnormality of low pressure sensor
Fd	Abnormality of evaporating temperature thermistor at heating
Depending on the outdoor unit model:	
FE	Abnormality of gas piping temperature thermistor Abnormality of condensing temperature (heat exchanger)
FF	Abnormality of ambient air temperature thermistor

4.3.5 Self check

Self check of the remote controller PCB can be performed. During the test, the internal memory of the controller (EEPROM) can be cleared and reset to factory settings.

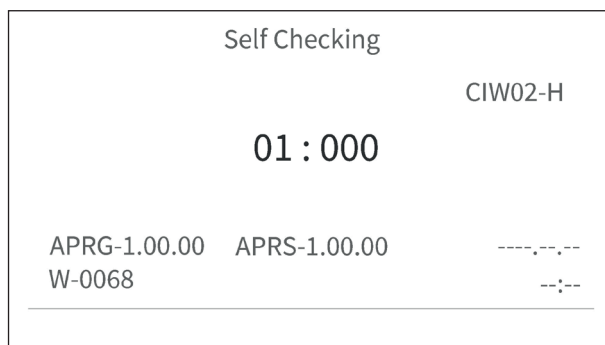
- 1 Select "Self check" on the "Check Menu" screen and press "OK".



- 2 Software version check

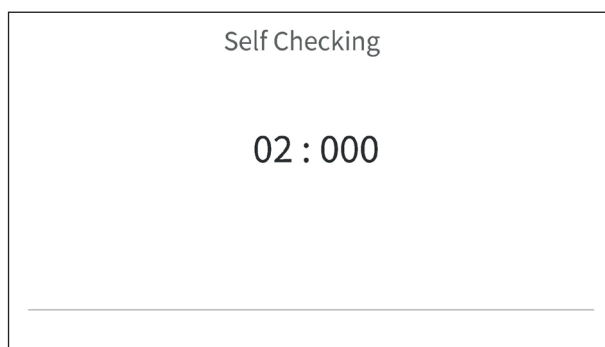
Software version is shown. If long press " $\checkmark$ " and " $\hookleftarrow$ " for 3 seconds, EEPROM is cleared.

Refer to EEPROM process. Else, turn to Step3.

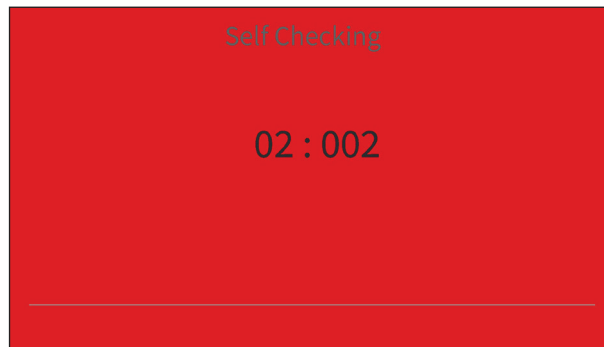


- 3 LCD check

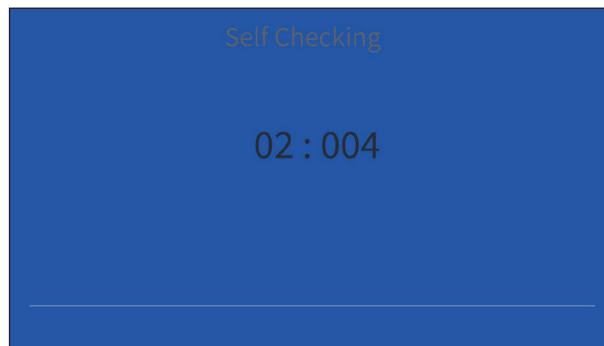
Press "OK" and show white screen. Press " $\triangleright$ ", screen color changes.



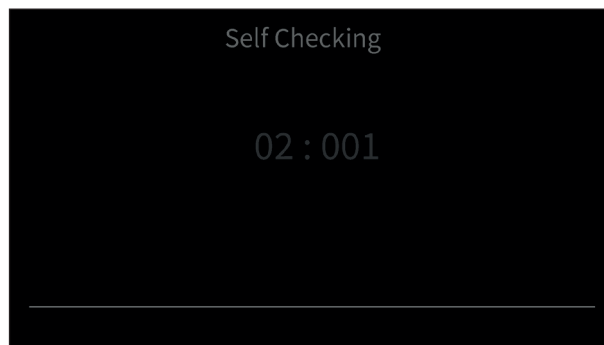
(Red)



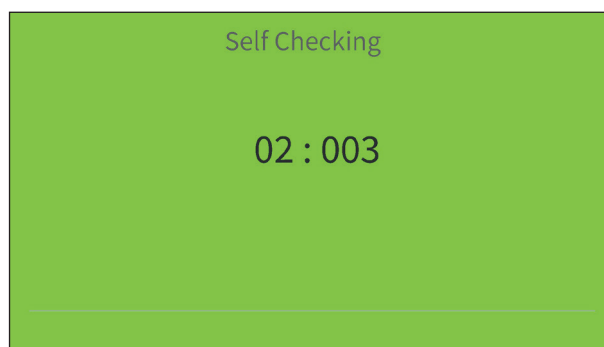
(Blue)



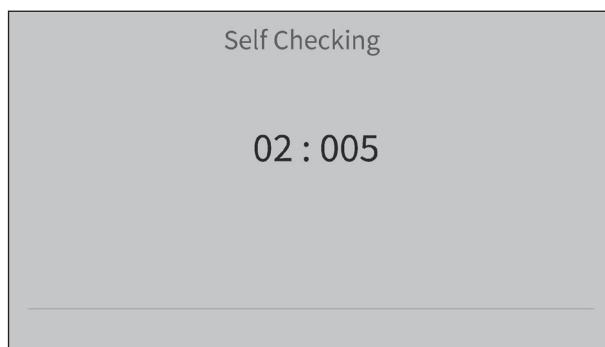
(Black)



(Green)

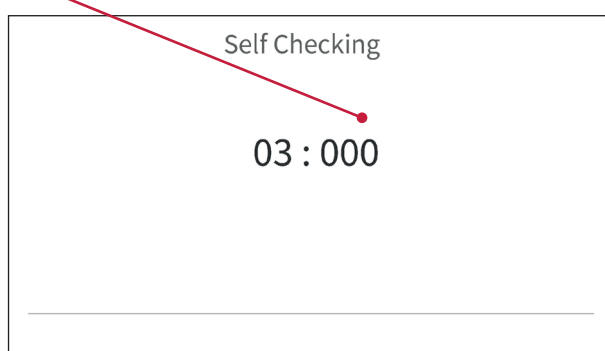


(Grey)



4 Back light check

03: Back light check
04: Run indicator check

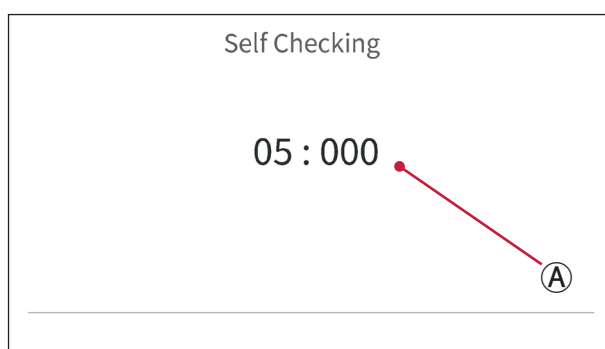


Press ">" on Wired Remote Controller. Back light brightness gradually increases.

5 Run indicator check

Press ">" on Wired Remote Controller. Run indicator lights from red to green.

6 Switch input check



Press each switch once a time. The switches sequence is as follows: "⏻" → "⏪" → "⏩" → ">" → "<" → "OK" → "↵"

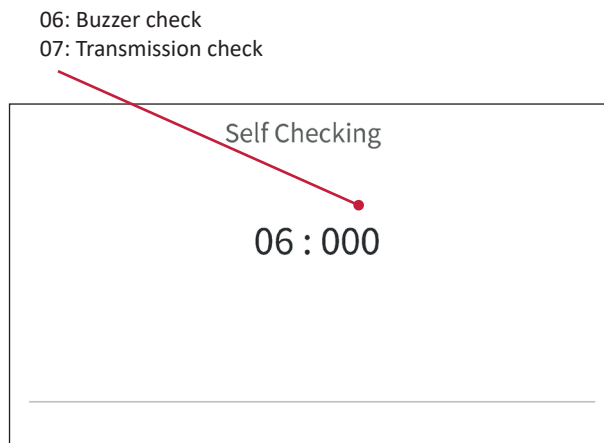
The number in area indicated with ① increases by 1 with each switch pressing.

NOTE

- The number increases regardless of the order of the switch pressing.
- The switch pressing is not counted if 2 or more switches are pressed simultaneously.

7 Buzzer check

Press “>” on Wired Remote Controller. Buzzer volume gradually increases.

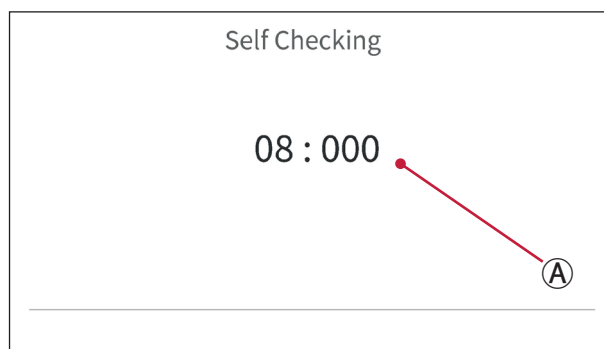


8 Transmission check

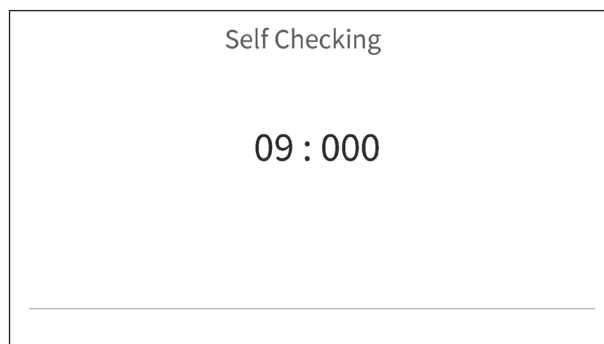
Wired Remote Controller then automatically starts transmission checking.

9 Thermistor check

The temperature on the remote controller thermistor is shown in area indicated with ①.

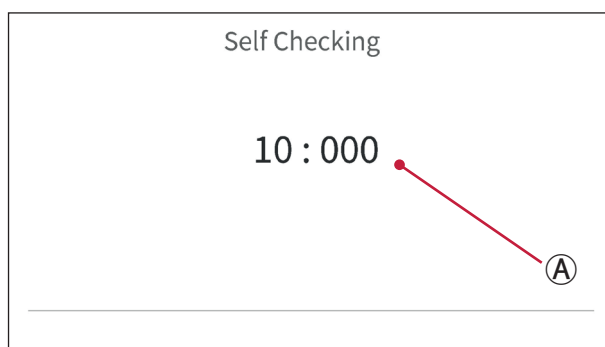


10 RTC check



11 Flash memory check

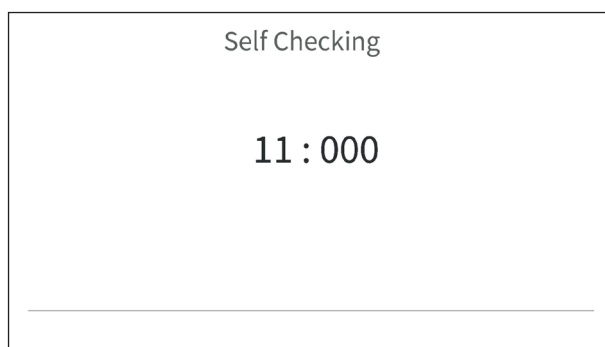
Check flash memory.



NOTE

The checking process does not proceed to the next if "999" is shown in the area indicated with ①.

12 EEPROM check



✓ To keep EEPROM as it is:

Press "√".

✓ To clear EEPROM

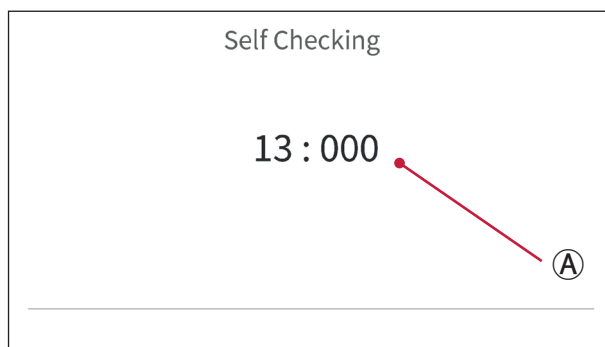
Press "OK" or leave the screen for 15 seconds, EEPROM data is automatically cleared. Number is shown in the area indicated with ①. "999" indicates defective EEPROM.

NOTE

The checking process does not proceed to the next if "999" is shown in the area indicated with ①.

13 After seconds, Wired Remote Controller automatically finishes Self Checking process and restarts.

◆ EEPROM process



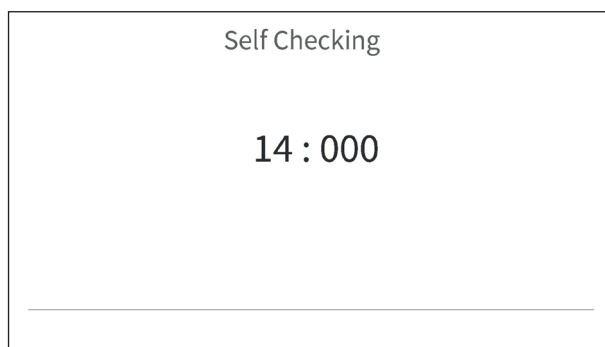
1 Clear EEPROM

Wired Remote Controller automatically starts EEPROM clear process.

2 After seconds, Wired Remote Controller automatically finishes Self Checking process and restarts.

Turn the power OFF on indoor units after self checking.

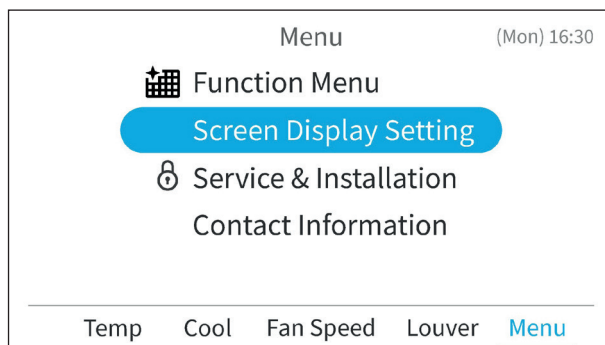
After all indicators on the remote controller are OFF, turn ON the power of the indoor unit again.



Screen Display Setting menu

5.1	Adjusting date / time	193
5.1.1	Time Format	194
5.1.2	Daylight Savings Time	195
5.1.3	Run Indicator Brightness	196
5.1.4	Display Adjustment.....	197
5.1.5	Temperature	201
5.1.6	Language Setting	203
5.1.7	Keypad Touch Sound	204

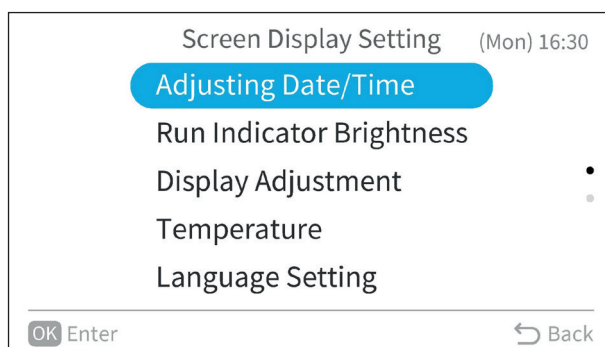
- 1 Select "Screen Display Setting" on the "Menu" screen and press "OK".



- 2 Press "▲" or "▼" to select setting item and press "OK".

Press "↶" to return to "Menu" screen.

- If there is no operation on the display setting screen for about 10 minutes, the screen automatically returns to the home screen.
- Various settings are saved even when the power supply is off.



Time and Date settings are recommended as this will be used by other functions like alarm history and timers.

Periodic checks of the time setting are recommended. (Clock accuracy: difference within ± 70 seconds by a month)

With this controller, the installed electric battery will allow continued operation for 72 hours. Reset the date and time if the controller remains without power for longer than 72 hours or the main power supply is OFF for a long period of time.

When adjusting time from the main controller, the sub controller of the same refrigerant cycle will be set at the same time.

NOTE

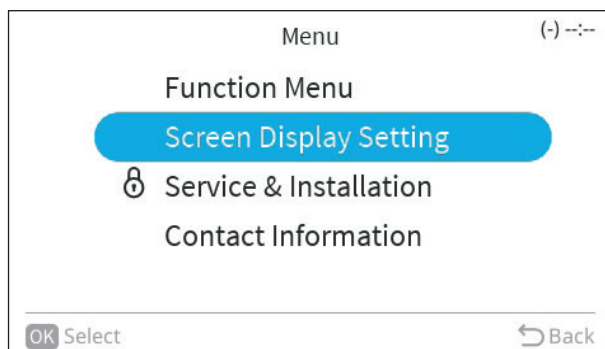
It is possible to adjust time from the sub controller. If more than two minutes' modification is done, the main controller will be set at the same time. (Please check the main and sub display on the home screen. If it is not displayed, check "4.1.12 Main Remote Setting").

5.1 Adjusting date / time

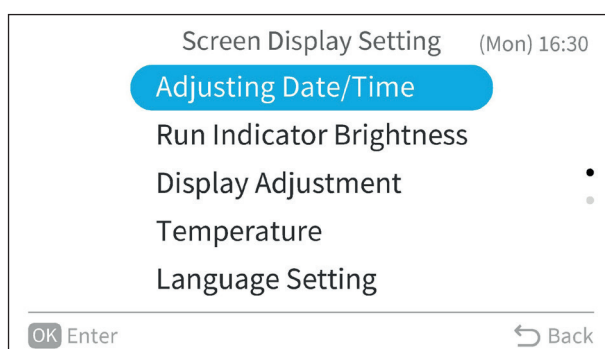
- 1 While the air conditioner is stopped, press “>” to select “Menu” and press “OK”.

While the air conditioner is operating, press “>” to select “Menu” and display the Menu screen.

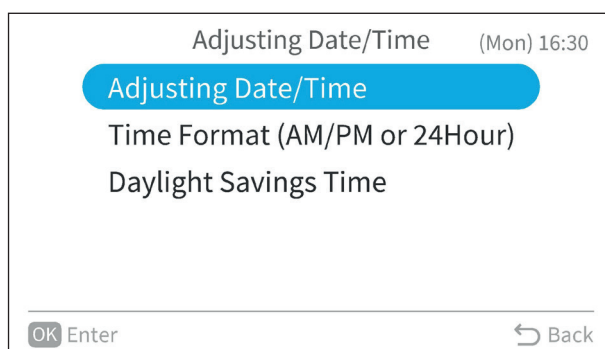
- 2 Select “Screen Display Setting” and press “OK”.



- 3 Select “Adjusting Date/Time” and press “OK”.

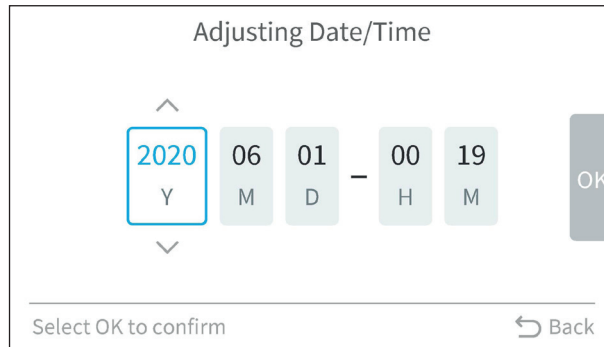


- 4 Select “Adjusting Date/Time” and press “OK”.



- 5 Press “<”, or “>” to select “yyyy/mm/dd/hh/mm”.
- 6 Press “^” or “v” to change the settings.
- 7 Press and hold “^” or “v” to increase or decrease continuously.

The day of the week changes.

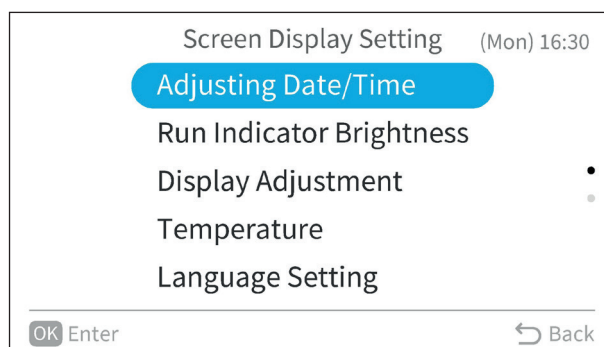


- 8 After making all settings:
 - If select “OK” and press “OK”, the screen returns to Step4.
 - If press “↵”, the confirmation screen displays.
 - Select “Save” and press “OK” to save the setting. The screen returns to Step4.
 - Select “Not Save”, the screen returns to Step4 without any setting changes.
 - If press “↵” again, the screen returns to Step5.

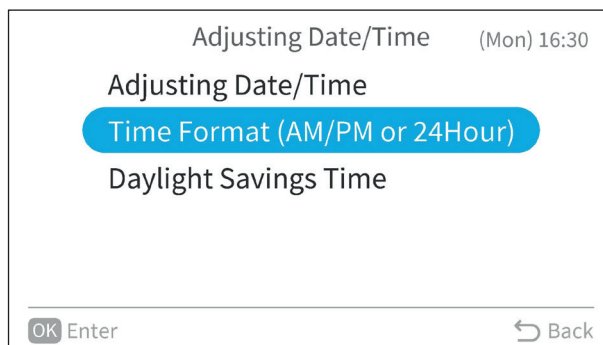
5.1.1 Time Format

Set time format

- 1 Select “Adjusting Date/Time” on the “Screen Display Setting” screen and press “OK”.

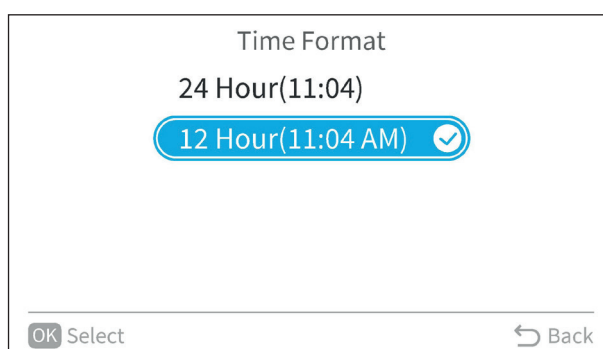


- 2 Press “^” or “v” to select "Time Format" and press "OK".



- 3 Press “^” or “v” to select 24 hour or 12 hour and press "OK".

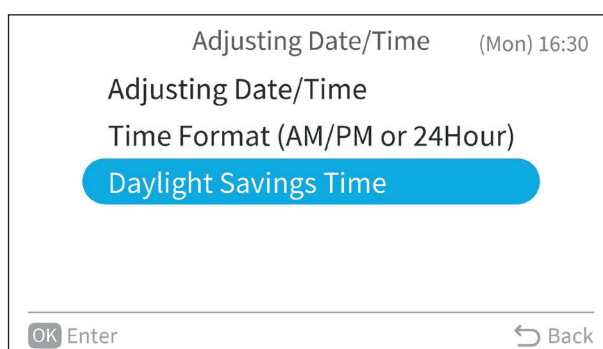
- 4 Press “↶” to return to Step2.



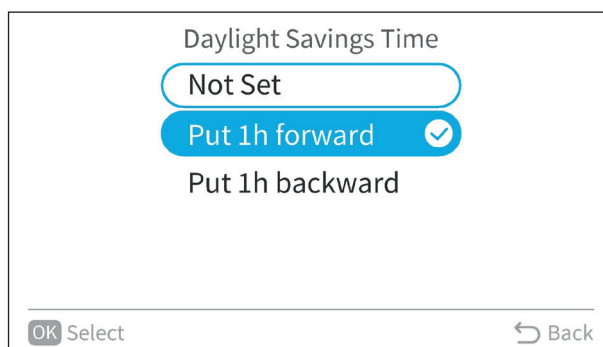
5.1.2 Daylight Savings Time

This function adjusts time forward or backward an hour when daylight savings time starts or ends.

- 1 Select “Daylight Savings Time” on the “Adjusting Date/Time” screen and press “OK”.



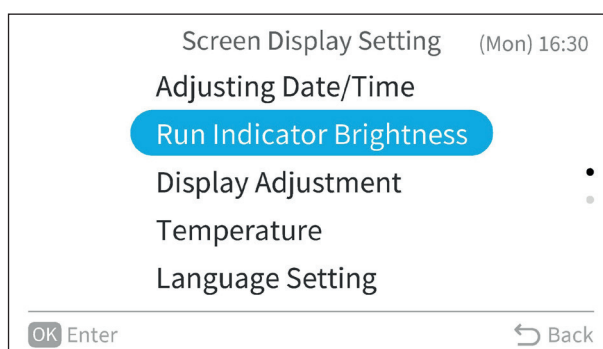
- 2 Press “^” or “v” to select the setting and press “OK”.



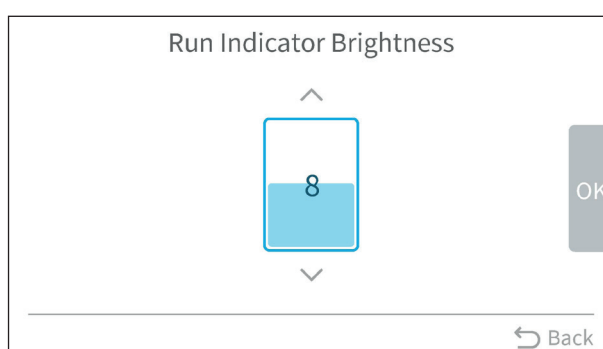
5.1.3 Run Indicator Brightness

To increase or decrease the brightness of the run light.

- 1 Select “Run Indicator Brightness” on the “Screen Display Setting” screen and press “OK”.



- 2 Press “^” or “v” to change the brightness value. Select “OK” and press “OK”, the screen returns to the “Screen Display Setting” screen.



5.1.4 Display Adjustment

Function	Action
Backlight Brightness	Adjust the brightness of the backlight.
Backlight Dim	Change the time when the backlight turns dark after inactivity.
Backlight OFF	LCD screen OFF
Screen theme	Change theme between Light or Dark

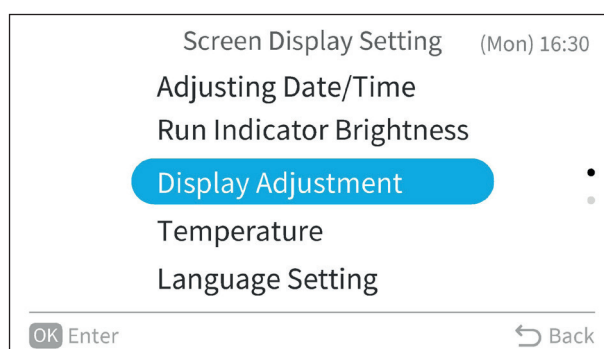
NOTE

When connecting with two remote controllers, the maximum backlight brightness is 8.

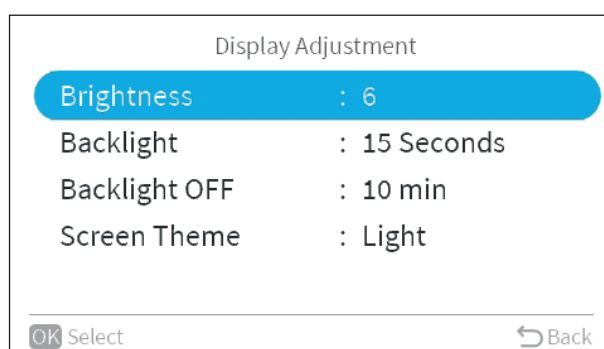
◆ Backlight Brightness

To adjust the brightness of the backlight.

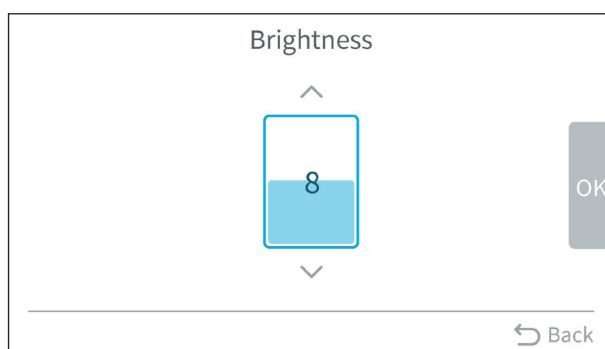
- 1 Select "Display Adjustment" on the "Screen Display Setting" screen and press "OK".



- 2 Select "Brightness" and press "OK".



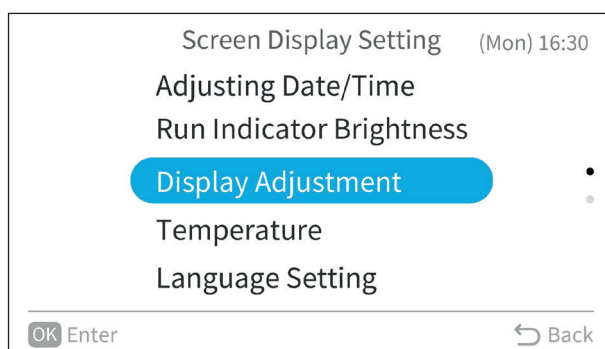
- Press “^” or “v” to change the brightness value.
Select “OK” and press “OK”, the screen returns to Step2.



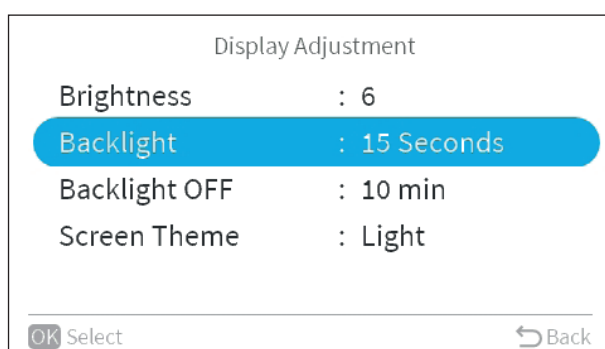
◆ Backlight Dim

To change the time when the backlight turns dark after inactivity.

- Select “Display Adjustment” on the “Screen Display Setting” screen and press “OK”.

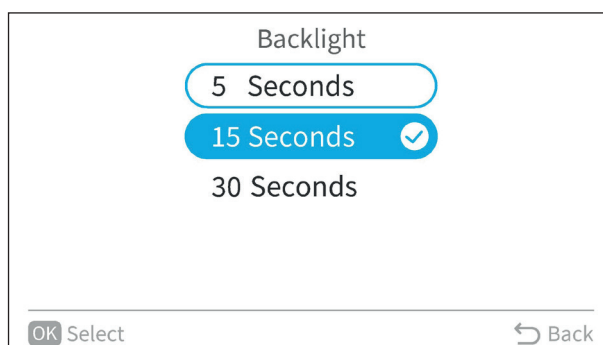


- Select “Backlight Dim” and press “OK”.



- 3 Press “^” or “v” to select the time intervals and press “OK”. The item changes as follows:

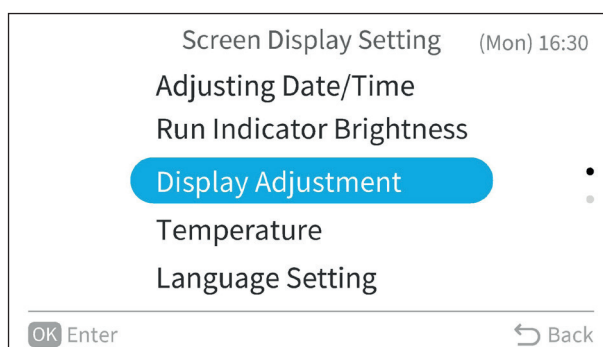
“5 seconds” ↔ “15 seconds” ↔ “30 seconds”.



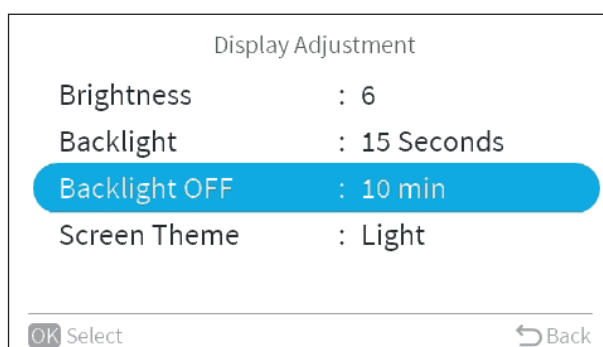
◆ Backlight OFF

To set the time after the LCD screen turns OFF.

- 1 Select “Display Adjustment” on the “Screen Display Setting” screen and press “OK”.

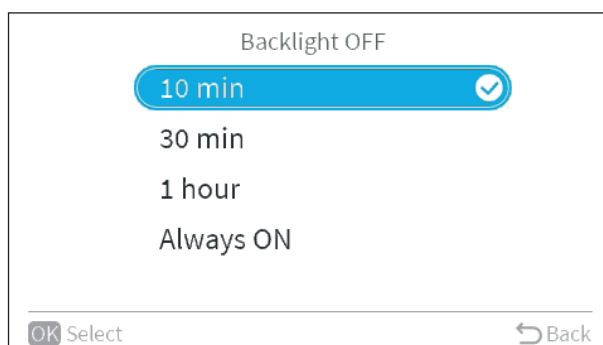


- 2 Select “Backlight OFF” and press “OK”.



- 3 Press “^” or “v” to select the off time intervals and press “OK”. The item changes as follows:

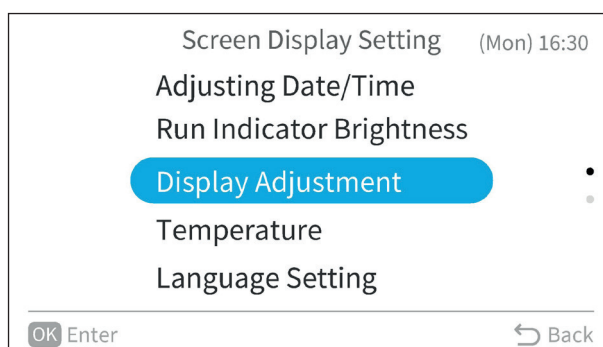
“10 minutes” ↔ “30 minutes” ↔ “1 hour” ↔ “Always ON”.



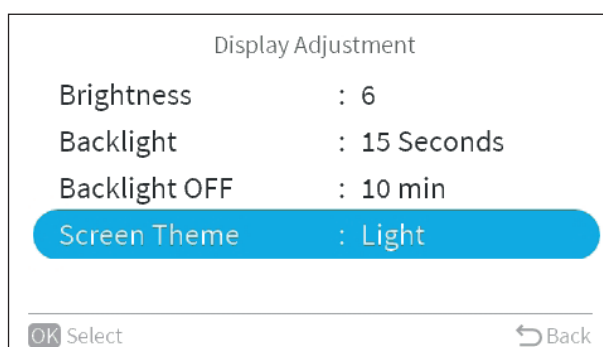
◆ Screen Theme

To change the screen theme between light or dark mode.

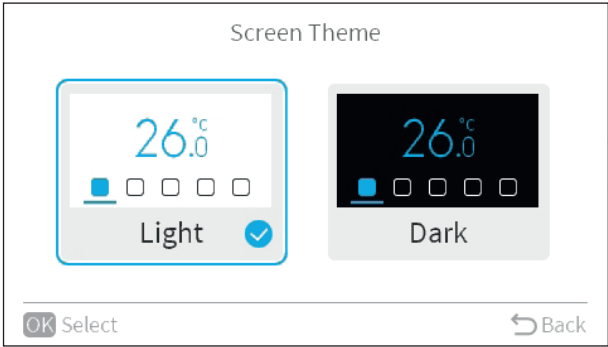
- 1 Select “Display Adjustment” on the “Screen Display Setting” screen and press “OK”.



- 2 Select “Screen Theme” and press “OK”.



3 Press “<” or “>” to select between light and dark theme and press “OK”.

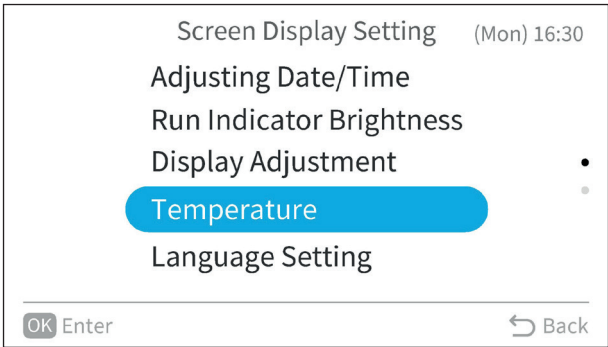


5.1.5 Temperature

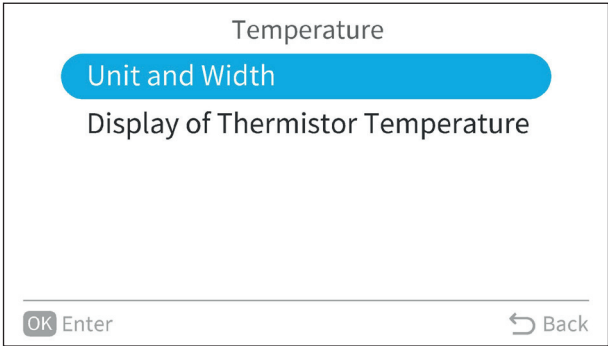
Function	Action
Unit and Width	Change temperature unit and width.
Display of Thermistor Temperature	Show/hide the thermistor temperature display on the home screen.

◆ Temperature Unit and Width

1 Select “Temperature” on the “Screen Display Setting” screen and press “OK”.



2 Press “^” or “v” to select "Unit and Width" and press "OK".



3 Press "<" or ">" to select unit or width. Press "^" or "v" to change the setting.

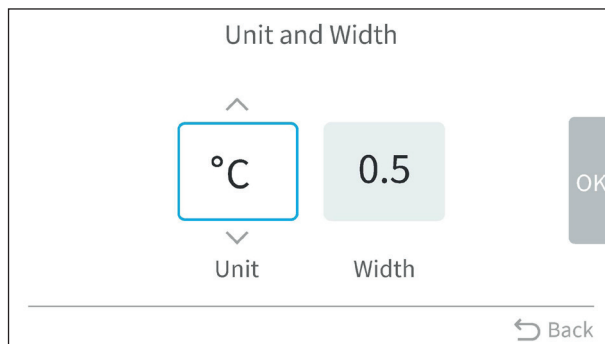
- When the unit is selected, it change as below.

°F ↔ °C

- When the width is selected, it changes as below.

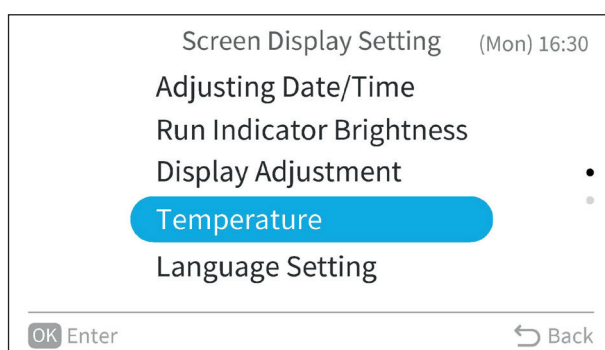
0.5 ↔ 1 (The width can be set only when the unit is °C.)

- After making all settings, select "OK" and press "OK", the screen returns to Step2.

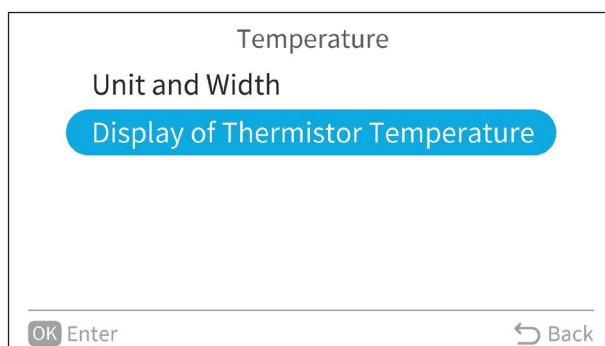


◆ Display of Thermistor Temperature

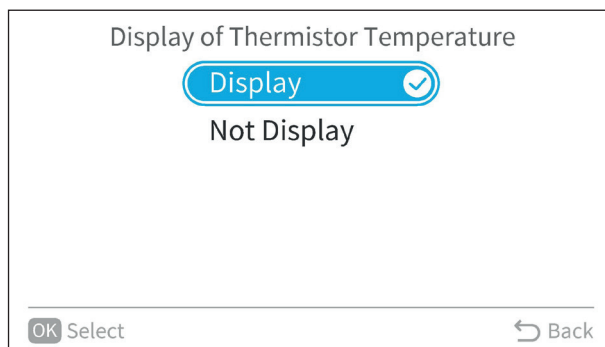
1 Select "Temperature" on the "Screen Display Setting" screen and press "OK".



2 Press "^" or "v" to select "Display of Thermistor Temperature" and press "OK".



- Press “^” or “v” to select the setting and press “OK”.
Press “↵” to return to Step2.



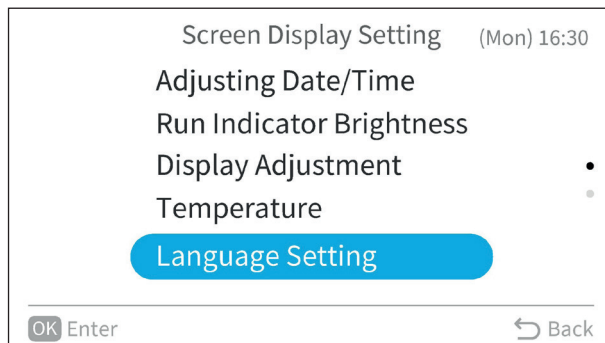
5.1.6 Language Setting

This function is to change the displayed language.

Selectable language:

PC-ARFG2-E(B)	EN/ES/FR/IT/DE/PT/CR/SL/EL/DA/SW/FI/NL/CS/SK/HU/PL/RO/BG/UK/RU/TR
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- Select “Language Setting” on the “Screen Display Setting” screen and press “OK”.



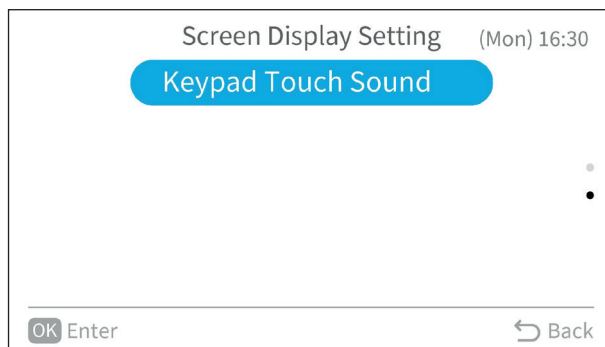
- Press “^” or “v” to select the language and press "OK".
Press “↵” to return to “Screen Display Setting” screen.



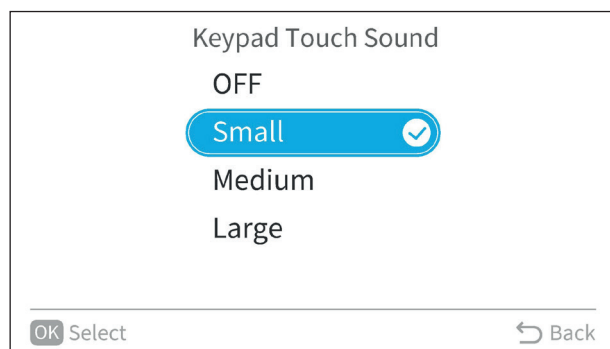
5.1.7 Keypad Touch Sound

This function is to change the touch sound on keypad.

- 1 Select "Keypad Touch Sound" on the "Screen Display Setting" screen and press "OK".



- 2 Press "▲" or "▼" to select the sound volume and press "OK".
Press "↶" to return to "Screen Display Setting" screen.





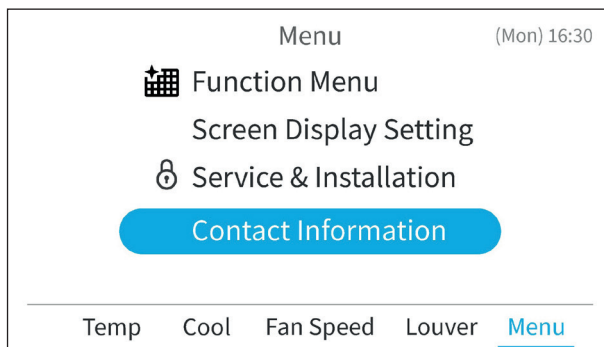
Contact Information menu

6.1 Contact Information206

6.1 Contact Information

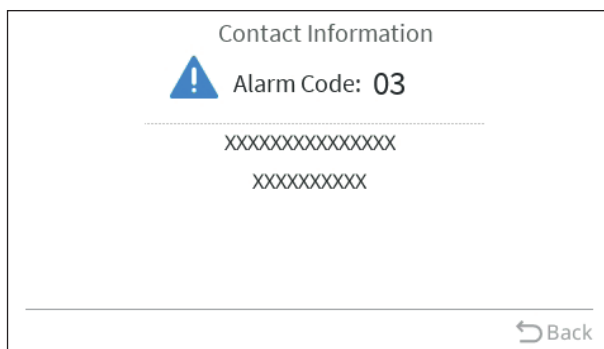
The screen displays service contact information and the latest alarm code.

- 1 Select "Contact Information" from the "Menu" screen and press "OK".



- 2 Display service contact information and the latest alarm code.

Press "↶" to return to the "Menu" screen.

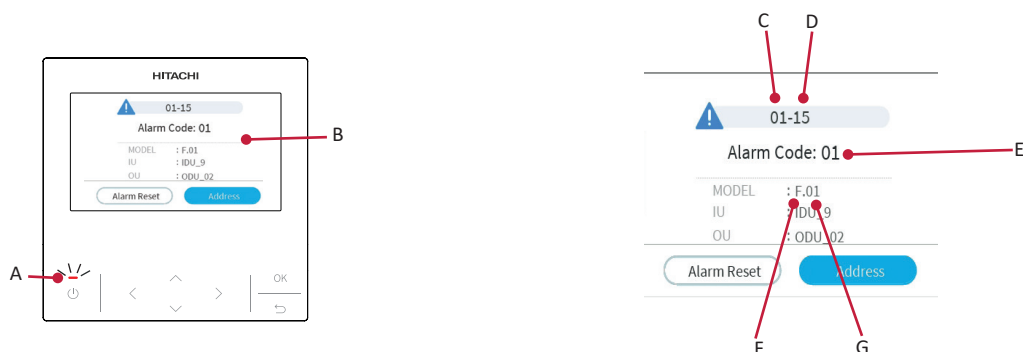


Troubleshooting

7.1 Remote controller display during abnormal operation	208
7.2 Alarm codes	210

7.1 Remote controller display during abnormal operation

PC-ARFG2-E(B) example



A: The RUN (red) indicator flashes

B: The alarm indicator appears on the remote controller liquid crystal display (LCD).

The alarm screen displays the following items:

- ✓ C+D: Indoor unit number:
 - C: Refrigerant system number (Abnormal refrigerant cycle number).
 - D: indoor unit address number (Abnormal indoor unit number).
- ✓ E: Alarm code
- ✓ F+G: Installed unit number
 - F: Unit model code.

Model code	
Indication	Model
H	Heat pump
P	Inverter
F	Multi (SET-FREE)
E	Other
L	KPI

- E: connected number of indoor units

If there are various indoor units connected with an alarm, the above mentioned information is shown for each one of them, changing the unit each 5 seconds.

◆ Malfunction

If the remote controller LCD and run indicator do not turn ON, check the following possible items that can cause the malfunction (In any case, ask your retailer for service):

- Broken remote cable
- Contact failure in the remote control cable
- Defective IC or defective microcomputer

◆ Power supply failure

All the indicators are OFF.

Once the air conditioner is stopped by power failure for longer than 2 seconds, the air conditioner is not started again, although power recovers. Perform the starting procedures again.

If the power recovers within 2 seconds, the air conditioner starts again automatically.

◆ Electromagnetic Interference (EMI)

There could be an instance where all the indications are OFF and the unit is stopped.

This can occur through activation of the microcomputer for the air conditioner protection from the Electromagnetic Interference (EMI).

Perform the starting procedures again.

7.2 Alarm codes

Code	Category	Content of Abnormality	Leading Cause
01	Indoor Unit	Activation of protection device (float switch)	Activation of float switch (high water level in drain pan, abnormality of drain pipe, float switch, or drain pan)
02	Outdoor Unit	Activation of protection device (High pressure cut)	Activation of PSH (pipe clogging, excessive refrigerant, inert gas mixing)
03	Communication	Abnormal communication between indoor units and outdoor units	Incorrect wiring, loose terminals, disconnected communication cable, blowout of fuse, indoor unit Power OFF
04		Abnormal communication between inverter PCB and outdoor PCB	Inverter PCB - outdoor PCB communication failure (loose connector, wire breaking, blowout of fuse)
05	Supply Phase	Abnormality of power supply phases	Incorrect power supply, connection to reversed phase, Open-phase
06	Voltage	Abnormal inverter voltage	Outdoor voltage decrease, insufficient power capacity
07	Cycle	Decrease in discharge gas superheat	Excessive refrigerant charge, failure of thermistor, incorrect wiring, incorrect piping connection, expansion valve locking at opened position (disconnect connector)
08		Increase in discharge gas temperature	Insufficient refrigerant charge, pipe clogging, failure of thermistor, incorrect wiring, incorrect piping connection, expansion valve locking at closed position (disconnect connector)
0A	Communication	Abnormal communication between outdoor units	Incorrect wiring, breaking wire, loose terminals
0b	Outdoor Unit	Incorrect outdoor unit address setting	Duplication of address setting for outdoor units (sub units) in same refrigerant cycle number
0C		Incorrect outdoor unit main unit setting	Two (or more) outdoor units set as "main unit" exist in same refrigerant cycle number
11	Sensor on Indoor Unit	Abnormality of inlet air thermistor	Incorrect wiring, disconnecting wiring, breaking wire, short circuit DOAS: Dedicated outdoor air system, all fresh air indoor unit
12		Abnormality of outlet air thermistor	
13		Abnormality of freeze protection thermistor	
14		Abnormality of gas piping thermistor	
15		Abnormality of outdoor air thermistor (EconoFresh)	
16		Abnormality of remote sensor (DOAS)	
17		Abnormality of thermistor built-in remote controller (DOAS)	
18	Indoor Fan Motor	Abnormality of indoor fan system	Abnormality of indoor fan motor (step-out), indoor fan controller failure
19		Activation of protection device for indoor fan	Fan motor overheat, lockup

Code	Category	Content of Abnormality	Leading Cause
1A	Indoor Fan Controller	Abnormality of fan controller fin temperature	Abnormality of fin thermistor or fan controller, heat exchanger clogging, abnormality of fan motor
1b		Activation of overcurrent protection	Abnormality of fan motor
1C		Problem with current sensor	Abnormality of fan controller current sensor
1d		Activation fan controller protection	Driver IC error signal detection, instantaneous overcurrent
1E		Abnormality of indoor fan controller voltage	Indoor voltage decrease, insufficient capacity of power supply wiring
21	Sensor on Outdoor Unit	Abnormality of high pressure sensor	Incorrect wiring, disconnecting wiring, breaking wire, short circuit
22		Abnormality of outdoor air thermistor	
23		Abnormality of discharge gas thermistor on top of compressor	
24		Abnormality of heat exchanger liquid pipe thermistor	
25		Abnormality of heat exchanger gas pipe thermistor	
29		Abnormality of low pressure sensor	
30	System	Incorrect DSW settings of outdoor unit for CH-Box	Connection of CH-Box to heat pump system, disconnection of CH-Box to heat recover system.
31		Incorrect capacity setting of outdoor unit and indoor unit	Incorrect capacity setting of outdoor unit and indoor unit, excessive or insufficient indoor unit total capacity code
35		Incorrect setting of indoor unit number	Duplication of indoor unit number in same refrigerant cycle number
36		Incorrect of indoor unit combination	Indoor unit is designed for R22
38		Abnormality of picking up circuit for protection in outdoor unit	Failure of protection detecting device (incorrect wiring of outdoor PCB)
3A	Outdoor Unit	Abnormality of outdoor unit capacity	Outdoor unit capacity > permitted maximum
3b		Incorrect setting of outdoor unit models combination or voltage	Incorrect setting of main and sub units(s) combination or voltage
3d		Abnormal communication between main unit and sub unit(s)	Incorrect wiring, disconnect wire, breaking wire, PCB failure
3E		Abnormal combination between inverter PCB and outdoor PCB	Incorrect combination between inverter PCB and outdoor PCB
43	Protection Device	Activation of pressure ratio decrease protection	Defective compression (failure of compressor or inverter, loose power supply Connection)
44		Activation of low pressure increase protection	Overload at cooling, high temperature at heating, expansion valve locking at open position (loose connector)
45		Activation of high pressure increase protection	Overload operation (heat exchanger clogging, short circuit of airflow), pipe clogging, excessive refrigerant, inert gas mixing
47		Activation of low pressure decrease protection	Insufficient refrigerant, piping clogging, expansion valve locking at close position (loosen connector)
48		Activation of inverter overcurrent protection	Overload operation, compressor failure
51	Sensor	Abnormal inverter current sensor	Current sensor failure

Code	Category	Content of Abnormality	Leading Cause
53	Inverter	Inverter error signal detection	Driver IC error signal detection (protection for overcurrent, voltage decrease, short circuit), instantaneous overcurrent
54		Abnormality of inverter fin temperature	Abnormal inverter fin thermistor, heat exchanger clogging, fan motor failure
55		Inverter failure	Inverter PCB Failure
57	Fan Controller	Activation of fan controller protection	Driver ic error signal detection (protection for overcurrent, voltage decrease, short circuit), instantaneous overcurrent
5A		Abnormality of fan controller fin temperature	Fin thermistor failure, heat exchanger clogging, fan motor failure
5b		Activation of overcurrent protection	Fan motor failure
5C		Abnormality of fan controller sensor	Failure of current sensor (instantaneous overcurrent, increase of fin temperature, voltage decrease, grand fault, step-out)
A1	External Input	Detection of external abnormality	Input signal by external abnormality detection setting
b0	Indoor Unit	Incorrect setting of unit model code	Incorrect setting of indoor unit model
b1		Incorrect setting of unit and refrigerant cycle number	64 Or more number is set for address or refrigerant cycle
b2		Abnormality of EEPROM	EEPROM failure, incorrect data of EEPROM
b5		Incorrect indoor unit number setting	There are 17 or more non-corresponding to H-LINK II units are connected to one system.
b6		Abnormal communication between indoor PCB and indoor fan controller	Communication failure, disconnected communication cable, abnormal connection
C1	CH-Box (Change-Over Box)	Incorrect CH-Box connection	2 or more CH-Box are connected between outdoor unit and indoor unit
C2		Incorrect indoor unit connection number	9 or more indoor units connected to single branch type CH-Box 7 or more indoor units connected per a branch of multiple branch type CH-Box
C3		Incorrect indoor unit refrigerant number setting	Indoor units of different refrigerant cycle number are connected to CH-Box
C4		Incompatible outdoor unit connection (CH-Box)	This outdoor unit is not compatible with this CH-Box.
C5		Incorrect connection port setting	Indoor unit is connected to a port that is set to not used for multiple branch type CH-Box
EE	Compressor	Compressor protection alarm (It can not be reset from wired controller)	This alarm code appears when the following alarms* occurs three times within 6 hours. *02, 07, 08, 39, 43 to 45, 47

Cooling & Heating

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