

Advanced Product News

Launching of new PC-ARFG2-E(B) wired remote controller

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Summary

1. This Advanced Product News introduces the new PC-ARFG2-E(B) wired remote controller.

2. The details are indicated in the following pages.

General Index

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2. New software features

2.1 Auto-mode- Enable temperature range setting

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2.5 More languages

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1. Applicable products, model code and date of sales

The new PC-ARFG2-E(B) wired remote controller has been designed for VRF and PAC systems and is especially designed for use with the air365 Max (Pro) or systems where NFC is required. Additionally, a black housing model has been added to the line-up of this new wired remote controller.

◆ New products



PC-ARFG2-E



PC-ARFG2-EB

Model Description	Model Code	Picture	Date of initial sales
PC-ARFG2E	7C510009		Nov'23 (*)
PC-ARFG2E-B	7C510010		Nov'23 (*)

(*) After consumption of stocks of previous models. Release date may change depending on the sales results. Operation team is controlling the phase-in process and will confirm the release date.

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2. New software features

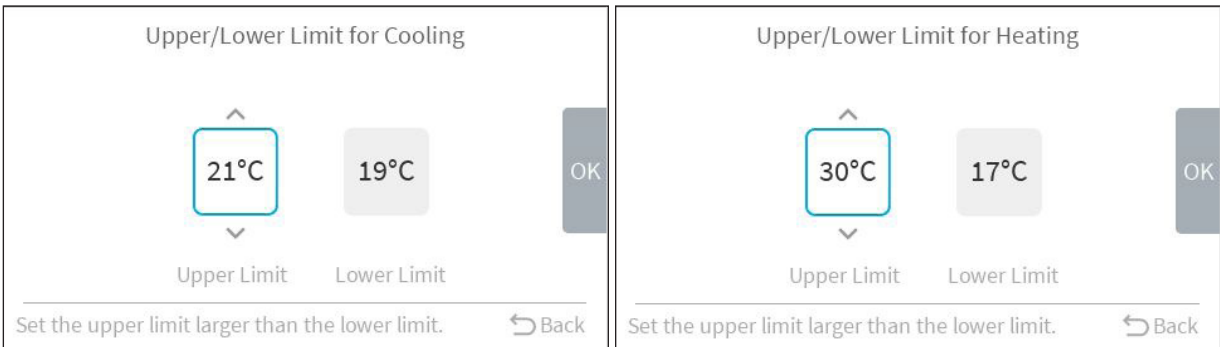
When airMax365 is combined with an indoor unit Gen3 and remote controller PC-ARFG2-E the following new features are available:

- Auto-mode - Enable temperature range setting
- NFC communication - Controller setup with airCloud Tap App
- Cool / Heat auto change over
- Backup system setting (management of technical rooms)
- More languages
- New black screen theme
- Backlight setting
- Improved Input/Output settings description

2.1 Auto-mode - Enable temperature range setting

The complete temperature setting range can now be defined for heating and cooling operation modes. These settings are also available for Auto Cool/Heat operation mode, with and without the dual set point option. When these options are activated, the temperature setting range can be defined from the “Temperature Range Restriction” menu.

- 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.



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- 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.

Upper/Lower Limit for Auto mode

^
28°C
v

19°C

OK

Upper Limit
Lower Limit

Set the upper limit larger than the lower limit. Back

Upper/Lower Limit for Auto Dual Setpoint

Cooling
^
30°C
v

19°C

Heating
30°C

17°C

OK

Upper Limit
Lower Limit
Upper Limit
Lower Limit

Set the upper limit larger than the lower limit. Back

- Press “^”, “v”, “<”, or “>” to select the setting value and press “OK”.
- 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 upper and lower temperature limits for Auto mode are not synchronized. Settings must be done on each controller separately.
- Please note that the temperature settings are limited as follows: “cooling setting temperature ≥ heating setting temperature +2°C”.

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2.2 NFC communication - Controller setup with airCloud Tap App

Thanks to the Near Field Communication chip embedded in this new controller, its setup can now be easily done from the dedicated App named airCloud Tap. Read or write settings from a remote controller, copy and paste the settings from one controller to several other ones. All this can now be done with airCloud Tap.

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.

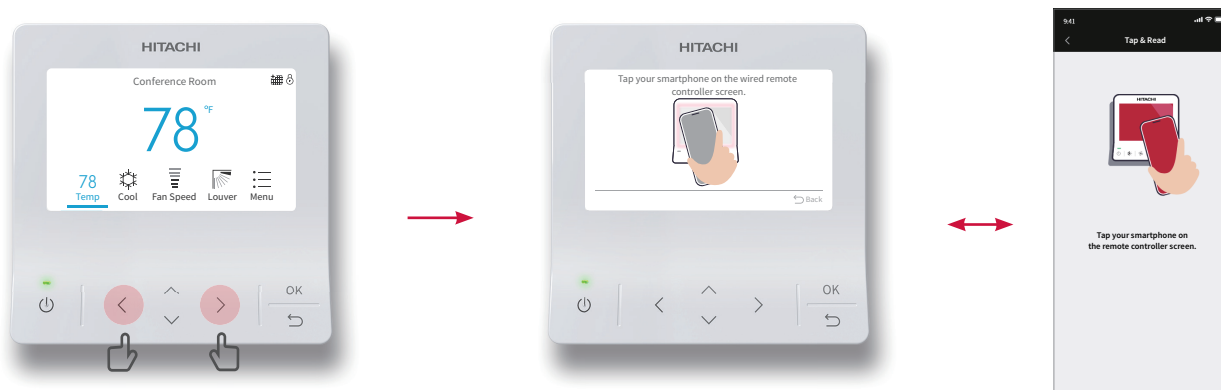
*2: Google Play and the Google Play logo are trademarks of Google LLC.

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: When reading data from “Check1”, “Check2” and “Check PCB of the Units”, the operation procedure is different.

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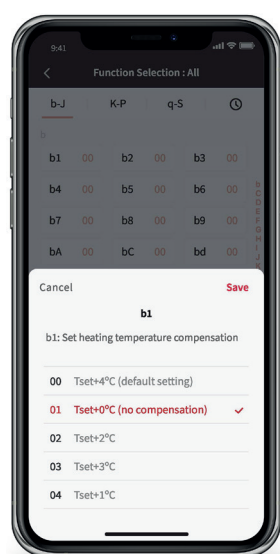
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2.2.1 NFC functions for indoor units

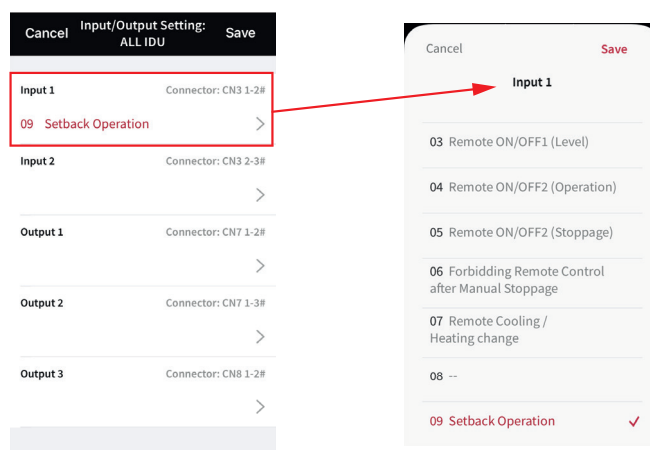
1 Optimize room temperature sensing

The various options are described inside the app so you can easily find your preferred room temperature sensor settings and apply them.



2 Select the input for setback operation

From the airCloud Tap App, the installer can see all the indoor units at the same time, as well as the related optional functions and input / output settings. In this way, the desired unit can be selected and the setback setting can be modified, without having to act on each remote control individually.



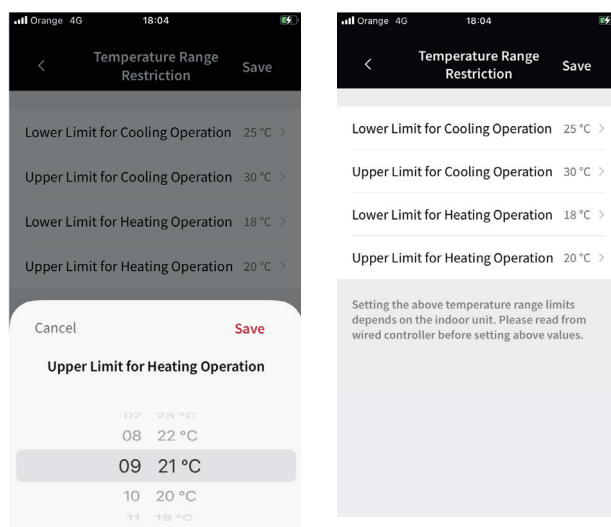
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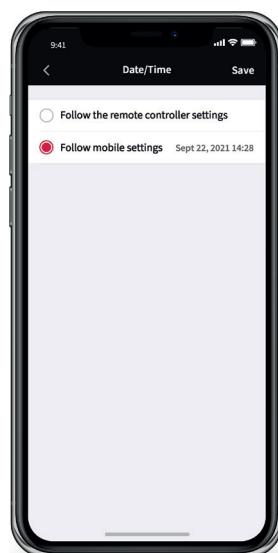
3 Set temperature restrictions

Visualize the complete description of the limitation options and easily set your desired one.



4 Set the date & time of the wired remote controller

Copy your mobile phone's current date & time to the controller with a tap.



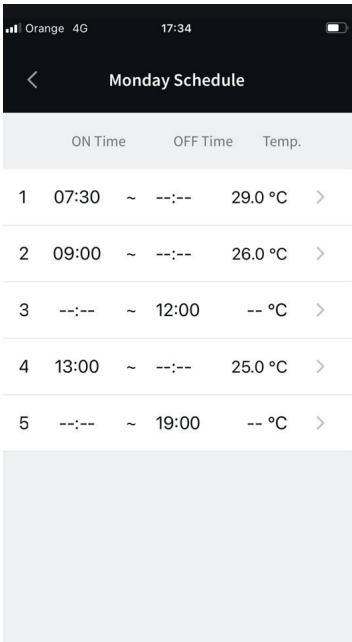
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5 Scheduling the weekly operation

Easily setup each day and arrange the slot in a glimpse. Tap the controller to enter the desired schedule.



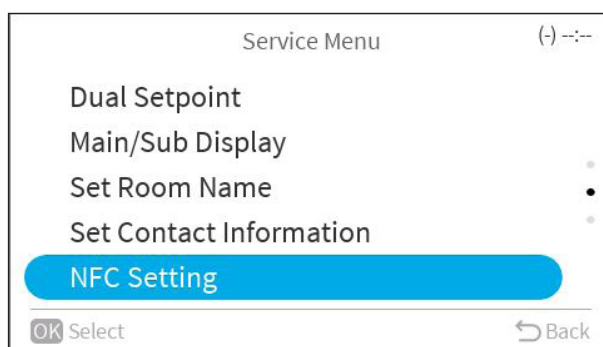
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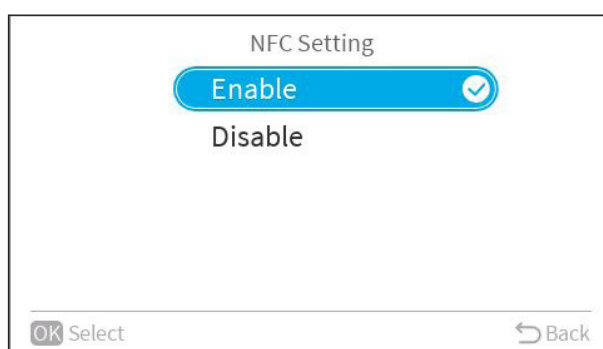
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To Enable / Disable NFC function:

- 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".



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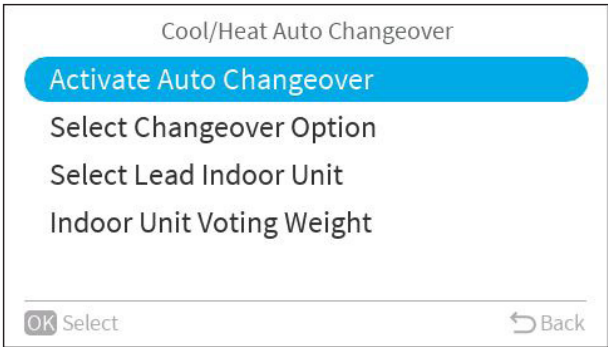
2.3 Cool/Heat Auto Changeover

For 2-pipes VRF system operating without central controller, the selection of the operation mode can be an issue, especially during intermediate seasons.

This new individual controller is proposing some new changeover options, dedicated to this type of VRF installations.

The changeover control 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.

Until now, “First-in” logic was the only option. This new Changeover function from WRC allows to select between three new settings, to improve the comfort of users for all types of applications:



i 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.

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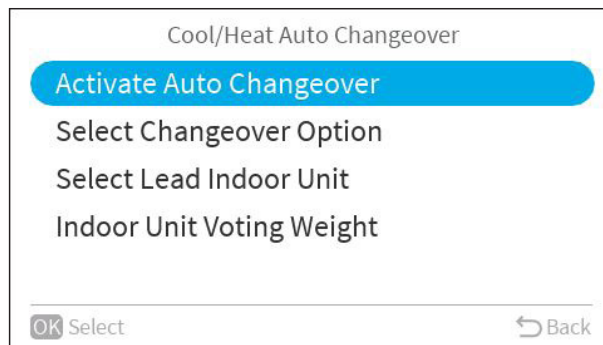
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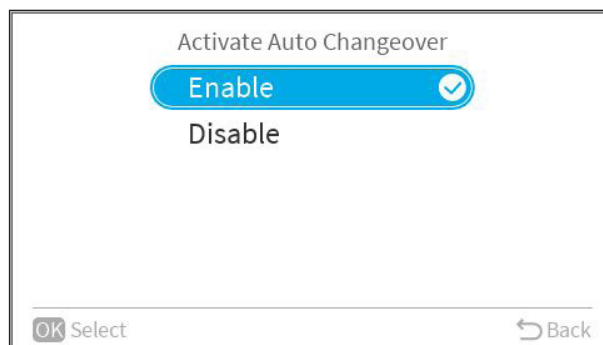
Setting Item	Description
Select Lead Indoor Unit	Set the indoor unit(s) controlled by the wired controller as lead unit or follower unit. When Select Lead Indoor Unit is selected under Select Changeover Option, the operation mode is determined based on the mode set to the lead unit.
Indoor Unit Voting Weight	Set the voting weight of the indoor unit(s) controlled by the related wired controller. Selectable from *1, *2, *3, or *0.

2.3.1 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.

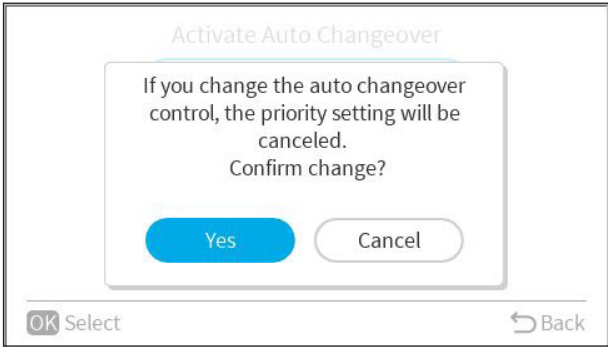


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- 4 Use the “ < ” and “ > ” buttons and select “Yes” and press the “OK” button. The screen will return to Step 3.



2.3.2 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 assessment of the demand from all the indoor units in operation, following the voting weight of each indoor unit.
Lead Unit Priority	The operation mode is determined according to the setting of the lead unit.

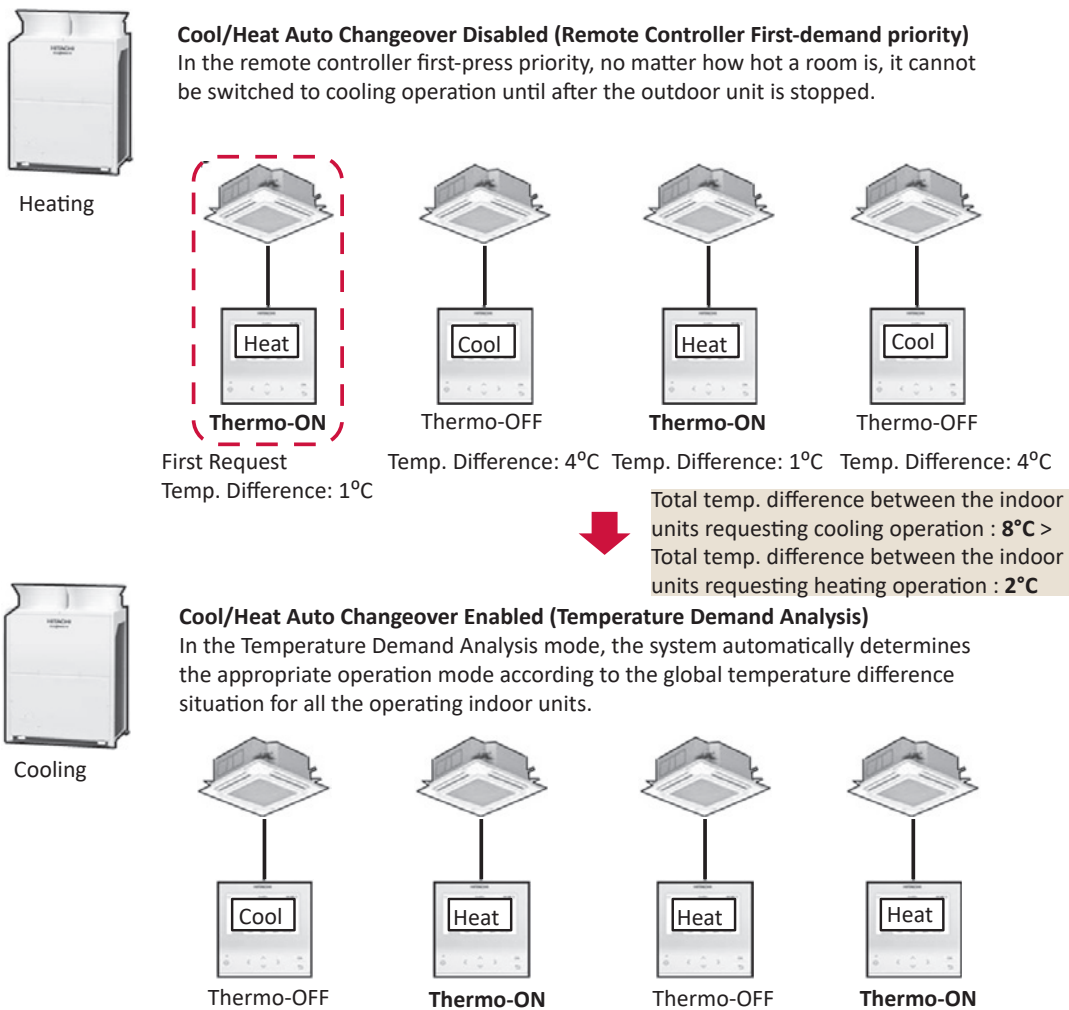
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◆ Temperature Demand Analysis

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.



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◆ Indoor Unit Majority Vote

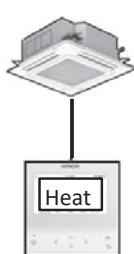
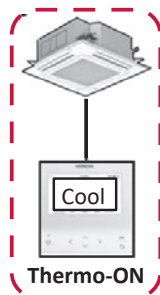
The number of the indoor units requesting cooling operation and the number of those requesting heating operation are compared, and the operation mode is switched to the operation mode selected by the majority of the indoor units, considering their voting weight.



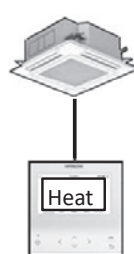
Cooling

Cool/Heat Auto Changeover Disabled (Remote Control first-demand priority)

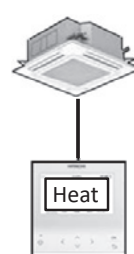
In the remote control first-demand priority mode, the operation cannot be switched to the heating operation until after the outdoor unit stops, no matter how much the heating operation request increases.



Thermo-OFF



Thermo-OFF



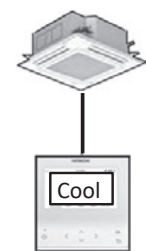
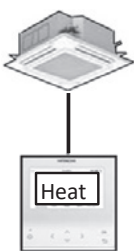
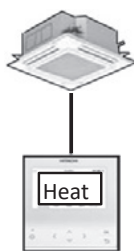
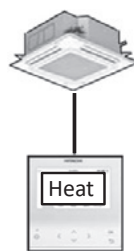
Thermo-OFF



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: 2Thermo-ON
Voting weight: 1Thermo-ON
Voting weight: 3Thermo-ON
Voting weight: 1

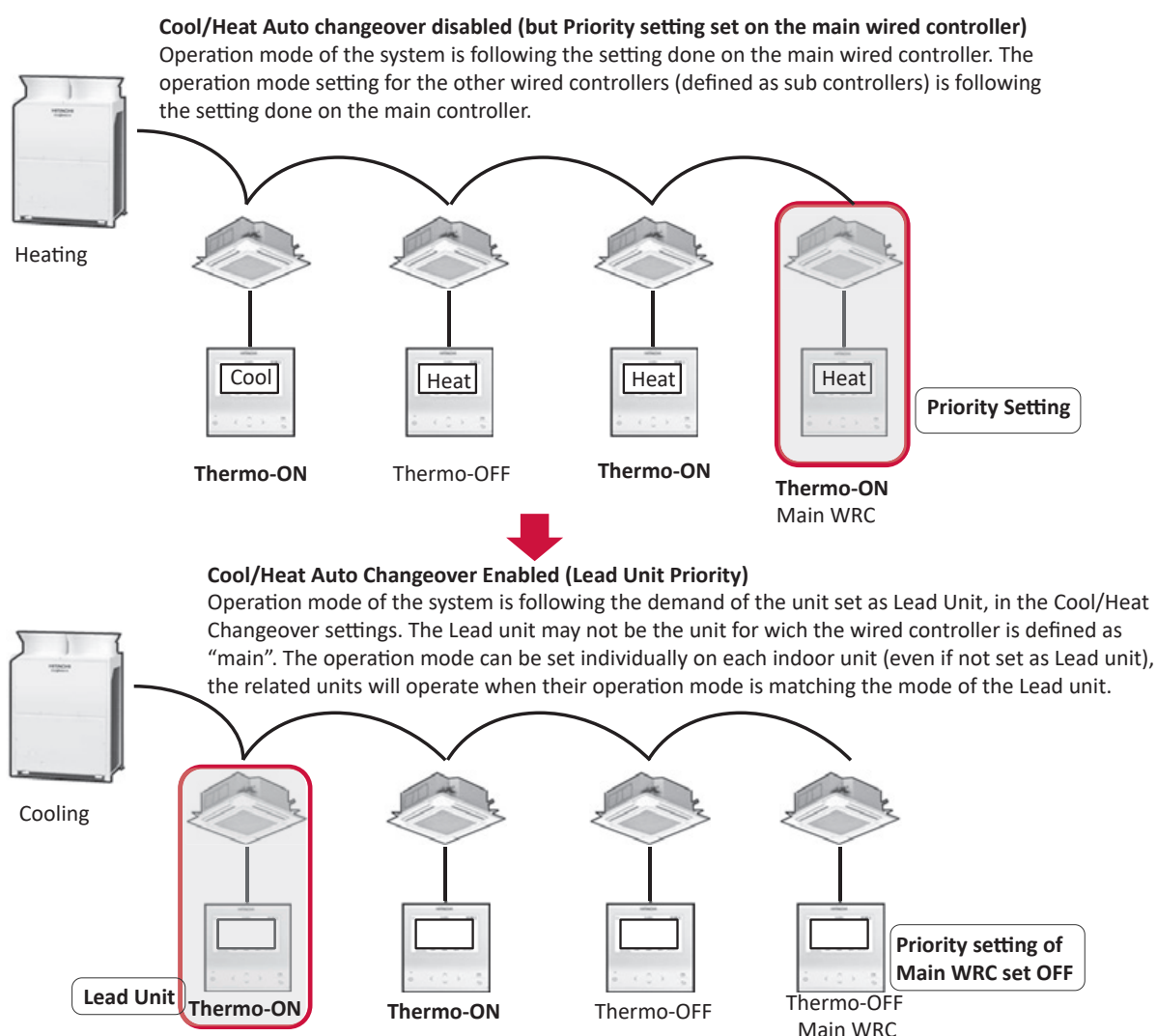
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◆ Lead Unit Priority

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



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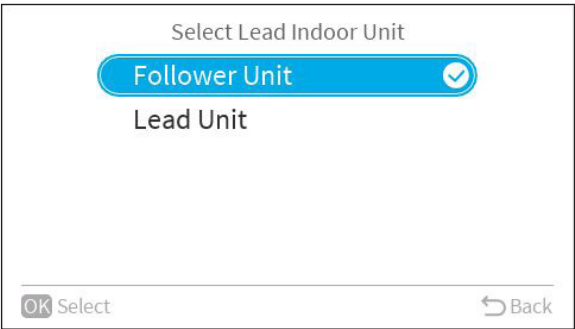
2.3.3 Select Lead Indoor Unit

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”.

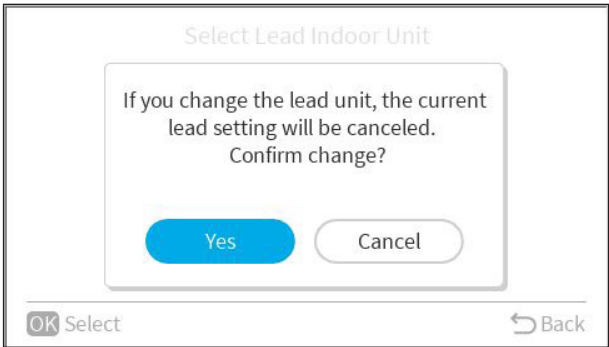
- 1 On the Service & Installation screen, select “Cool/Heat Auto Changeover”.
- 2 Select “Select Lead Indoor Unit” and press the “OK” button.



- 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.



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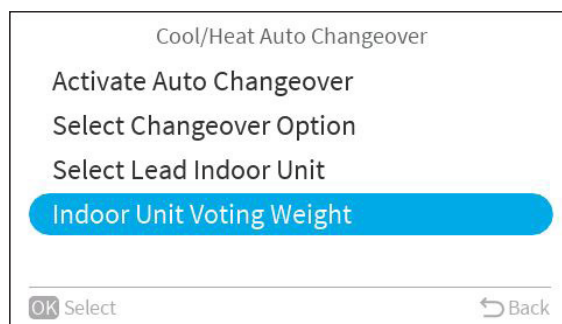
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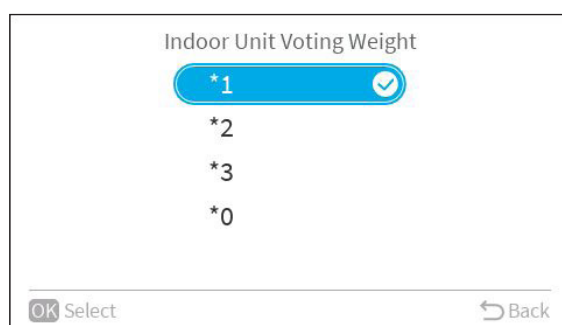
2.3.4 Indoor Unit Working Weight

This feature is used to introduce a priority for some units, to make the influence of one or 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"



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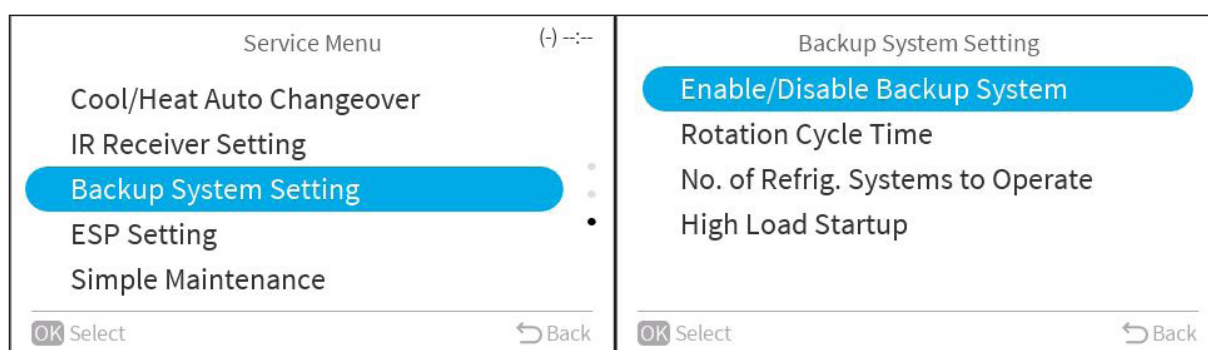
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2.4 Backup System Setting (management of technical rooms)

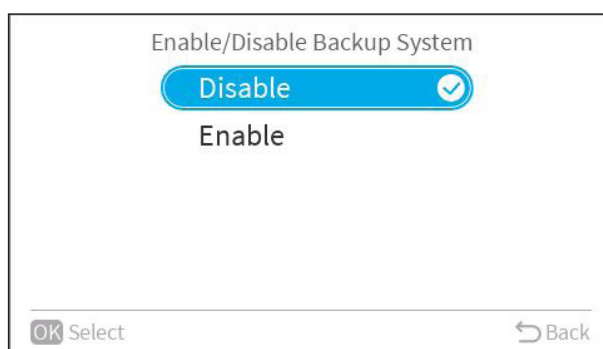
This function is dedicated to the technical rooms that require a permanent and secured operation of air conditioning units. The standard Backup and Rotation functions are now proposed from this wired controller.

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".



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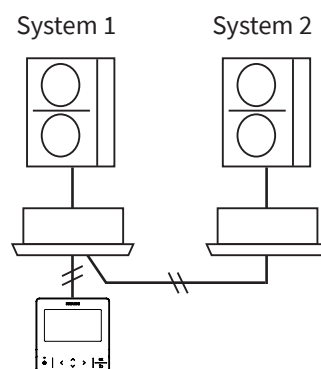
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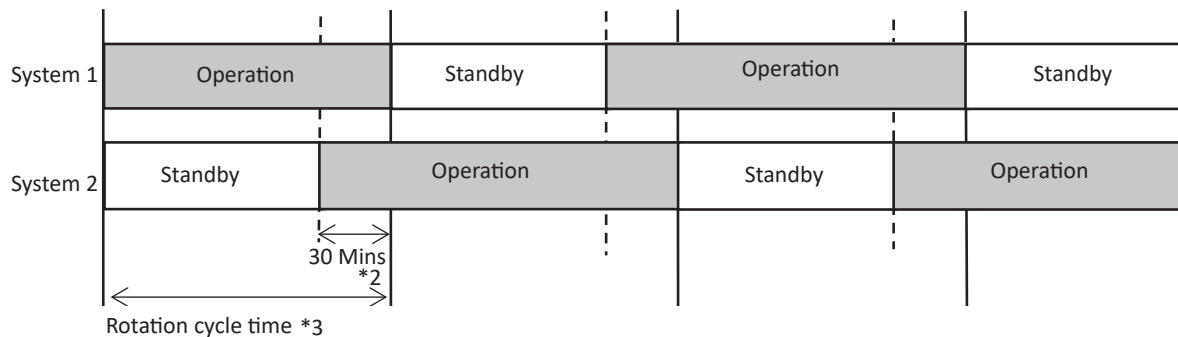
Rotation operation

This function can make each refrigerant system run alternately, to balance operation time between air conditioners. The standby system is in thermo-off(*1).

- System Example



- Rotation procedure



*1: The wired controller can manage up to 4 refrigerant systems with this Backup function.

Among these 4 systems, some shall be set as "Operating" (at least 1 system) and some other shall be set as "Backup" (at least 1 system):

- Operating systems: from 1 to 3 systems, at least 1 system shall be set as operating.
- Backup systems: from 1 to 3 systems, at least one system shall be set as Backup.

Refer to the chapter "Number of Refrigerant Systems to Operate " for details.

*2: In order to maintain stable conditions in the room, the second system is always starting 30 minutes before the end of operation of the first system.

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

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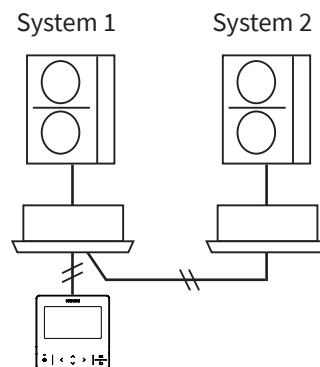
Launching of new PC-ARFG2-E(B) wired remote controller

Backup operation when abnormality occurs

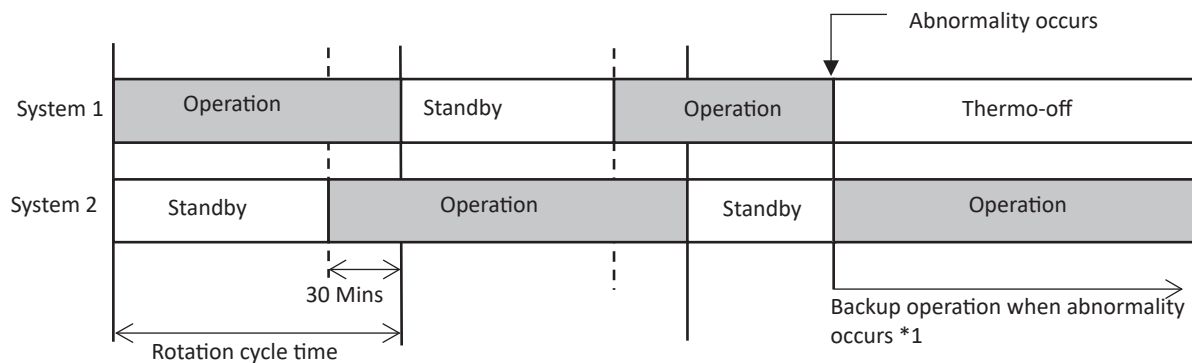
If an abnormality occurs during the rotation operation, the standby refrigerant systems return back to operation.

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.

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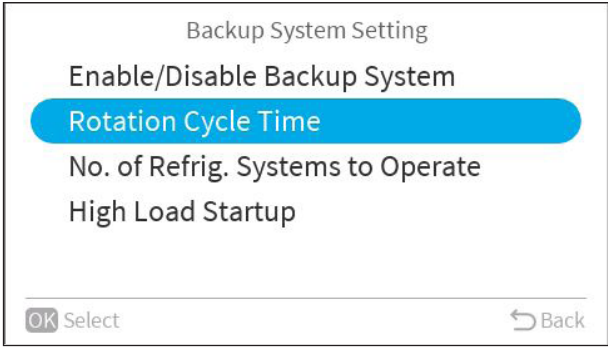
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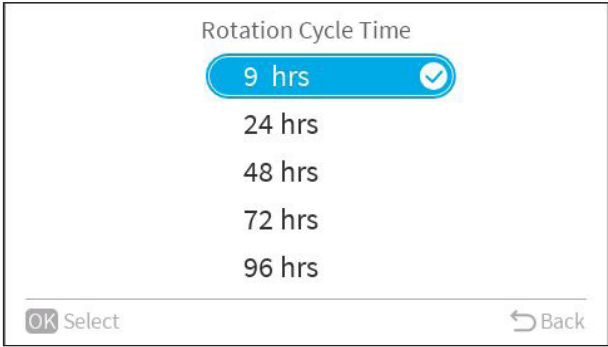
Rotation cycle time

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 “v” to select.



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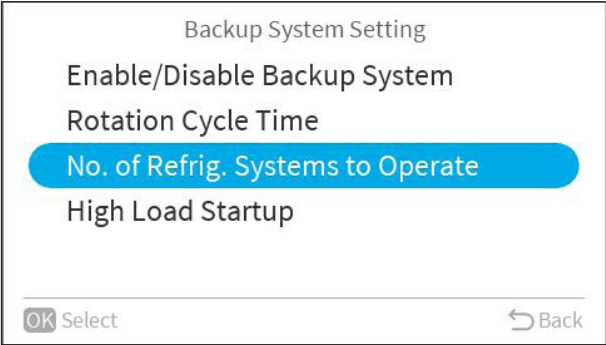
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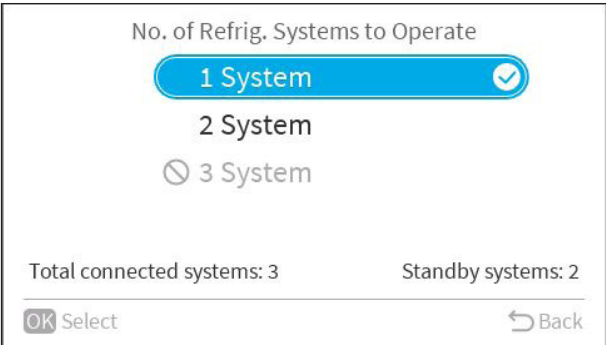
Number of Refrigerant Systems to Operate

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 “v” to select the number of refrigerant systems.



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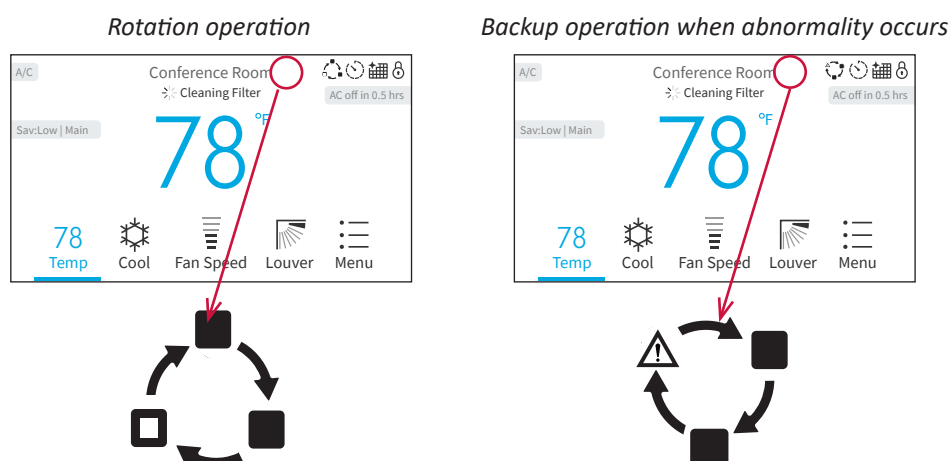
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Screen Display

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



2.5 More languages

Turkish language has been added to the previous 21 languages:



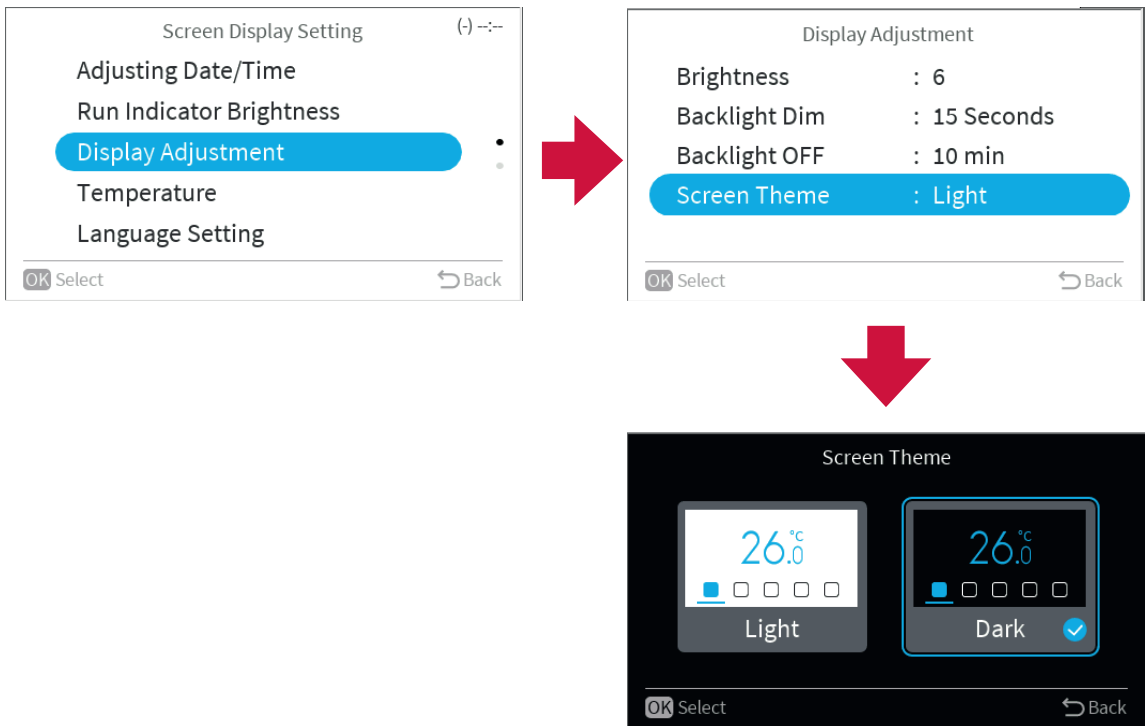
New product information									
Distributed to areas:									
All Areas		Oceania		Europe	X	China		India	NA
ASEAN and Others		ME		LA		Taiwan		Africa	Brazil
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2.6 Black screen theme

Black theme has been added to the screen theme menu.



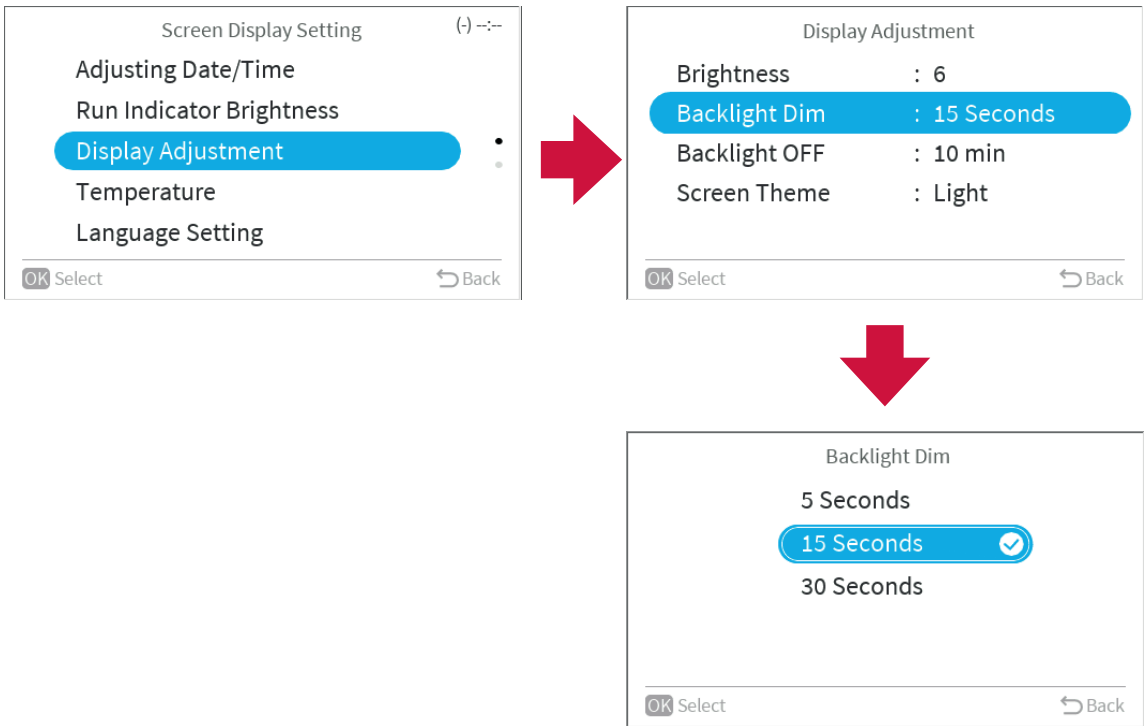
New product information									
Distributed to areas:									
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ASEAN and Others		ME		LA		Taiwan		Africa	
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2.7 Backlight setting

This feature is used to change the time when the backlight turns dark after inactivity.



2.8 Improved Input / Output description

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

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

New product information									
Distributed to areas:									
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2.9 Software functions compatibility

Units combined with PC-ARFG2-E(B)	These functions depends on	airMax365(Pro) outdoor units	FSR(1)(E) indoor units	Older HLINK2 outdoor units	Older HLINK2 indoor units
Temperature range for cooling, heating and auto modes	Indoor unit + controller	-	✓	-	✗
NFC Function - Settings with airCloud Tap	"Controller or outdoor unit (availability of NFC chip)"	✓	✓	✗	✓ ⁽¹⁾
Auto Cool/Heat Changeover	Outdoor unit + Indoor unit + controller	✓	✓	✗	✗ ⁽²⁾
Back up and rotation control	Outdoor unit + controller	✓	✓	✓	✓

NOTE

- (1): When PC-ARFG2-E(B) controller is used with a previous generation HLINK2 indoor unit (before FSR units)

NFC function and airCloud Tap can be used, limited to the compatible functions and settings of the related indoor unit.

Some functions may not be available, like FrostWash setting for example.

- (2): Auto Cool/Heat changeover can be used on HLINK systems that are mixing several types of indoor units and controllers.

The new controller PC-ARFG2-E(B) and a new air365Max outdoor unit are necessary to set and operate this function.

Older generation of indoor units and controllers can be mixed with new systems, but the auto cool/heat changeover function cannot be set from these older units / controllers (old units cannot be used as Lead unit, indoor voting weight cannot be set and is read as 1 by default).

