HITACHI

INSTALLATION & MAINTENANCE MANUAL

Advanced Color Wired Remote Controller



MODEL PC-ARFG2-Z

		Conference Room						
	26.0 Temp	t Cool	ZO.	0 Louver	: Menu			
- - -		<	~	>		OK		

ORIGINAL INSTRUCTIONS



Cooling & Heating

Important Notice

- Johnson Controls-Hitachi Air Conditioning pursues a policy of continuing improvement in design and performance in its products. As such, Johnson Controls-Hitachi Air Conditioning reserves the right to make changes at any time without prior notice.
- Johnson Controls-Hitachi Air Conditioning cannot anticipate every possible circumstance that might involve a potential hazard.
- This wired remote controller is designed for human comfort air conditioning applications only. Do not use this wired remote controller for anything other than the purposes for which it was intended for.
- If you have questions, please contact your distributor or dealer.
- Please read this manual carefully before using the product and file it for future reference.

Product Inspection upon Arrival

- 1. Upon receiving this product, inspect it for any damages incurred in transit. Claims for damage, either apparent or concealed, should be filed immediately with the shipping company.
- 2. Check the model number, electrical characteristics (power supply, voltage, and frequency rating), and any accessories to determine if they meet the requirements of the installation.
- 3. The standard utilization for this unit is explained in these instructions. Use of this equipment for purposes other than what it designed for is not recommended.
- 4. Please contact your installer or local service agent to discuss any issues involving installation, performance or maintenance.
- 5. Liability does not cover defects originating from unauthorized modifications performed by a customer without the written consent of Johnson Controls-Hitachi Air Conditioning. Performing any mechanical alterations on this product without the consent of the manufacturer renders your warranty null and void.

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1. Safety Summary

Signal Words

	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates information considered important, but not hazard-related (for example, messages relating to property damage).

General Precautions



To reduce the risk of serious injury or death, read these instructions thoroughly and follow all warnings or cautions included in all manuals that accompanied the product and are attached to the unit. *Refer back to these safety instructions as needed.*

- This system, including this controller, should be installed by qualified personnel according to local, state and national building and safety codes and regulations. Incorrect installation could cause leaks, electric shock, fire or an explosion. In areas where Seismic Performance requirements are specified, the appropriate measures should be taken during installation to guard against possible damage or injury that might occur in an earthquake. If the unit is not installed appropriately, injuries may occur because of a falling unit.
- Use appropriate Personal Protective Equipment (PPE), such as gloves, protective goggles and electrical protection equipment and tools suited for electrical installation purposes.
- When transporting, be careful when picking up, moving and mounting these units. Although the controller may be packed using plastic straps, do not use them for transporting from one location to another. Do not stand on or put any material on the controller.
- When connecting the controller cabling to the units, do not touch or adjust any safety devices inside the indoor or outdoor units. All safety features, disengagement, and interlocks must be in place and functioning correctly before the equipment is put into operation. If these devices are improperly adjusted or tampered with in any way, a serious accident can occur. Never bypass, or short-out any safety device or switch.
- Use only Johnson Controls-Hitachi Air Conditioning genuine replacement parts.
- Johnson Controls-Hitachi Air Conditioning will not assume any liability for injuries or damage caused by not following steps outlined or described in this manual. Unauthorized modifications to Johnson Controls-Hitachi Air Conditioning products are prohibited as they:
- May create hazards which could result in death, serious injury or equipment damage;
- Will void product warranties;
- May invalidate product regulatory certifications.

NOTICE

Take the following precautions to reduce the risk of property damage.

- Do not touch the main circuit board or electronic components in the controller or remote devices. Make sure that dust and/or steam does not accumulate on the circuit board.
- Avoid installing the unit in areas where electromagnetic waves are generated, as Electromagnetic interference (EMI) may cause the equipment to malfunction. Do not install where the waves can directly radiate into the electrical box, controller cable, or controller. The operation of the unit may also adversely affect these same devices. Install the unit at least 10 ft. (approximately 3m) away from such devices.
- If the wired remote controller is installed in a location where electromagnetic energy is generated, make sure that the wired remote controller is shielded and cables are run inside conduit tubing.
- If there is a source of electrical interference near the power source, install noise suppression equipment (filter).
- During the test run, check the unit's operation temperature. If the unit is used in an environment where the temperature exceeds the operation limits, it may cause severe damage. Check the operation temperature limits in the manual. If there is no specified temperature, install the unit in a location where the temperture limits are between 0°C to 40°C.
- This manual must be read in conjunction with the installation and operation manuals of other equipment being installed to get a full understanding of the equipoment and installation related topics.

Installation Precautions



Take the following precautions to reduce the risk of electric shock, fire or explosion resulting in serious injury or death:

- When using the wired remote controller with the built-in temperature sensor, do not install this controller:
 - Where the controller is exposed to direct sunshine.
 - Where the unit is in close proximity to a heat source which will influence the accuracy of temperature control.
 - Where hot/cold air from the outdoors, or a draft from elsewhere (such as air vents, diffusers, or grilles) can influence the accuracy of the detection of the actual room temperature.
- Perform a test run using the controller to ensure normal operation.

After installation work for the system has been completed, explain the "Safety Precautions" use, and maintenance of the unit to the customer according to the information in all manuals that accompanied the system. All manuals and warranty information must be given to the end user for safe keeping and future reference.

Electrical Precautions

Take the following precautions to reduce the risk of electric shock, fire or explosion resulting in serious injury or death:

- Only use electrical protection equipment and tools suited for this installation.
- Insulate the wired remote controller against moisture and temperature extremes.
- Use specified cables between units and the controller.
- If the power cord is damaged, it must be replaced immediately by a suitably qualified tradesperson.
- Communication cabling must be a minimum of 18-Gauge, twin core stranded copper cable. Shielded cable must be considered for applications in areas of high EMI and other sources of potentially excessive electrical noise to reduce the potential for communication errors. When shielded cabling is applied, proper bonding and termination of the cable shield is required as per Johnson Controls-Hitachi Air Conditioning guidelines. Plenum and riser ratings for communication cables must be considered per application and local code requirements.
- The polarity of the input terminals is important, so be sure to match the polarity when using contacts that have polarity.
- Highly dangerous electrical voltages may be used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause serious injury or death.
- Before installing the controller or remote devices, ensure that the system has been turned off, and after five minutes, power supply to the entire system has been isolated. This is to ensure that the system has undergone and completed its proper shut-down process.
- Do not open the service cover or access panel to the indoor or outdoor units without turning OFF the main power supply. Before connecting or servicing the controller or cables to indoor or outdoor units, open and tag all disconnect switches. Never assume electrical power is disconnected. Verify with a meter and equipment.
- Clamp electrical wires securely with a cable ties after all wiring has been completed. In addition, run wires securely through the wiring access channel.
- Secure the suspended cables at regular intervals, but not too tightly.
- Make sure that the terminals do not come into contact with the surface of the electrical box. If the terminals are too close to the surface, it may lead to failures at the terminal connection.
- Avoid moisture ingress on to and in to the controller as it could cause electric shock and/or damage the unit. Do not use strong detergent such as a solvent. Clean with a soft cloth.

2. Installation Work

This manual is applied for common use of the wired remote controller(connnected in non-zoning or zoning system). Refer to "**Installation Work**" of INSTALLATION & MAINTENANCE MANUAL of Premium Zoning Kit when connected in Zoning system.

[Before Installation]

(1) This packing contains the following parts.

Name	PC-ARFG2-Z	Operation Manual	Installation & Maintenance Manual	Screw
Appearance	нтосня 			رالی الم
Qty.	1	1	1	2

(2) When installing two controllers one above the other, allow a gap of at least 50mm between the two.



[Installation Procedures]

(1) Insert the edge of the slotted screwdriver into the groove at the bottom of the holding bracket, push and turn the slotted screwdriver to separate and remove the controller from the mounting plate.



NOTE:

• Do not insert the slotted screwdriver into the tab beside the groove. The tab may be damaged and the advanced color wired remote controller cannot be installed.



(2) According to different controller installation methods, choose one of the following two ways to install the mounting plate and connect the cable .

Draw-out Hole Ø 00 Cable D. Attach the cable-tie to the cable Cable Tie 0 on the inside of the draw-out hole (Field-Supplied) ___0 B. Peel away the insulation А ◬ В 6 at the end of the cable and clamp the M3 (fieldsupplied) solderless terminals. \odot A. Secure the mounting \bigcirc plate onto the wall with C. Feed the cable with its sheath peeled through M4×16mm screws (supplied) the groove.

Method 1 : To mount the controller directly on the surface of a wall:

Method 2: to install the controller on a surface mounting box:

- a. Prepare the optional field-supplied surface mounting box which can fit the mounting plate.
- b. Feed the cable through the conduit in the wall.



c. Cut away the insulation at the end of the cable and clamp the M3 solderless terminals (field-supplied).





- (3) Re-attach the controller body to the controller mounting plate. Be careful not to pinch the cable when attaching it.
- (4) After installation, remove the protective film from the LCD screen.



3. Electrical Wiring

Example of communication cable wiring for a non-zoning system:

ATTENTION:

- 1. Disconnect all power at the main power source before performing electrical work. Failure to do this can result in fire, damage to internal components, and severe or fatal electrical shock.
- 2. When the wired remote controller is utilized in a zoning system, please refer to "**Electrical Wiring**" of INSTALLATION & MAINTENANCE MANUAL of Premium Zoning Kit for guidance.



NOTICE

- A. Communication cabling must be a minimum of 18-Gauge, twin core stranded copper cable. Shielded cable must be considered for applications in areas of high electronic interference (EMI) and other sources of potentially excessive electrical noise to reduce the potential for communication errors. When shielded cabling is applied, proper bonding and termination of the cable shield is required as per Johnson Controls-Hitachi Air Conditioning guidelines. Plenum and riser ratings for communication cables must be considered per application and local code requirements. The use of any other grade of cable other than that specified above can result in malfunction from EMI.
- B. Both the controller cable and communication cables between indoor units should maintain a distance for more than 30cm with the power cord of the indoor units. If this is not done, the unit can malfunction due to EMI generated by incoming power cables.
- C. In systems where multiple indoor units are in synchronized control under a single controller, assign the refrigerant cycle numbers and address for indoor units without duplication.
- D. Refer to the "**Unit No. Setting**" of each Installation and Maintenance manual provided with indoor unit when performing electrical wiring work between the controller and indoor units for setting the refrigerant cycle number and the indoor unit address.
- E. No gap should exist between the controller cable and the cable access inlet of the controller box casing. If there is a gap, cover and seal the gap with vinyl tape. Failure to insulate against the penetration of moisture and insects can result in degraded performance and damage to the unit.
- F. If case of operating with two controllers (Primary and Secondary), set the primary and secondary controllers by selecting the appropriate function for those controllers. Refer to Page 12 item F2 in chapter 6. Function Selection. After this is set, reset the power supply to the system.

4. Entering Service & Installation

Some functions are not available when the wired remote controller is connected in Zoning system, please see **26.3 Features Not Available When Connected with Zoning Kit** for details.

Step1. Power On

- 1. Turn ON the power supply for all the indoor units.
- 2. For models equipped with an auto-address function, wait approximately 3 minutes. The controller will go through an initialization process. Please wait till this is completed before making any settings.
- Step2. Enter Menu
 - 1. While the air conditioner is OFF, press ">" to scroll across to the "Menu" and press "OK" to display the Menu screen.



While the air conditioner is ON, press ">" to select "Menu" and display the Menu screen.





Step4. Input Password

Step3. Select "Service & Installation"

 Input password by pressing "\", "\", "<", or ">", select "OK". Then press "OK".

Password is required to prevent unintentional and unauthorised settings.

The default user password is "0000".

1. Select "Service & Installation" and press "OK".

Service & Installation Menu screen is displayed.

If the password input effective time has been set to "Everytime" then the password will need to be entered each time the Service and Installation menu is accessed. If the password input effective time has been set to either 10, 30, 60 or 120 minutes, then the password prompt will not display if accessed within these durations.





NOTES:

- In order to enhance the security protection, please be sure to change the default password.
- If you enter the wrong password more than 5 times, you will not be able to enter the password within 1 minute.
- Please refer to the manual of the outdoor unit for the service menu "Cool/Heat Auto Changeover".

5. Test Run

Test Run is to run the indoor units whether any pipe or cables is incorrectly installed.

- Step1. Enter Installation Menu
 - 1. Select "Installation Menu" and press "OK".

	Service & Installation	(Mon) 16:30
	Service Menu	
	Installation Menu	
	Check Menu	
OK Select		∽ Back



	Test Ru	n : 2 Units	
	~		
	(J.		
	Dry2	AUTO	
	\sim		
() Run	>+ ∽ Press fo	or 3 s to Chec	k Menu 🕤 Back

- Step2. Enter "Test Run" Mode
 - 1. Select "Test Run" and press "OK".
- Step3. Test Run

The total number of the indoor units connected is indicated on the screen.

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

If a number other than a correct number is displayed, the autoaddress function does not work properly due to improper wiring or electrical interference and so forth.

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.

NOTE:

When "00" is displayed, the auto-address function may be activated. Cancel "Test Run" mode and set it again.

- a. Press "()" (On/Off) again to activate Test Run.
- b. Press " $\$ ", " $\$ ", "<", or ">" and set each item.
- Step4. Cancel "Test Run" Mode
 - 1. When the unit is not in operation, press "⊃".
 - 2. When the unit is in operation, press "⁽⁾" (On/Off).

Function Selection is set from Installation Menu.Step1. Select "Installation Menu" and press "OK" .

Step2. Select "Function Selection "and press "OK".

Step3. Press "OK".

Step4. Press "<", "<", 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 Step5 is shown.)

- Step6. Press "∧", "∨", "<", or ">" to select the item to set from the list. 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.
- Step7. To confirm the setting, press " \subseteq " in the tab selection mode.
- Step8. Select "Yes" and press "OK" to confirm the setting and return to Step2. Select "No" and press "OK" to discard the settings and return to Step2. Press "⊖"to return to Step5.









Fu Cancellation of Hea	nction Sel	ection : 00-	-00	
Confir	m function	selection se	etting?	
q-S	Yes	No		
b6 00	DC 00	C4 00	CA UU	
OK Select			🕤 Back	

No.	Item	Optional Function	Individual	Setting	Contents	
	Item		Setting	Condition		Secting
				00	Tset +4°C(default setting)(*2)	
1	h1	Set heating temperature	0	01	$T_{cot+2^{\circ}C}$ (*3)	
-		compensation(*1)	Ŭ	02	Tset+3°C	
				04	Tset+1°C	
2	h2	Circulator Function during Heating		00	Unavailable	
		Thermo-OFF	0	01	Available	
3	b3	Not used	×	00	00	
				01	01 1200b/default.cotting)(*4)	
				00		
4	b4	Change of filter cleaning period	0	02	1200h	
				03	2500h	
				04	No Indication	
5	h5	Lock operation mode on controller	×	00	Usual setting	
			Â	01	Locked (*5)	
6	b6	Lock temperature setting on remote	×	00	Standard	
		controller		01	Fixed	
7	b7	Set operation mode as Cooling Unit	×	00	Locked	
				00	Unavailable	
8	b8	Automatic Cool/Heat operation	×	01	Available	
	h0	Lock for croad acting on controllar	,	00	Standard	
9	09	Lock fail speed setting off controller	Â	01	Locked	
10	bA	Not used	-	-	Not Used(Use as 00 setting conditions)	
				00	Tset+0°C(no compensation, default setting)	
11	bb	Set cooling temperature compensation	×	01	Tset–1°C	
				02	Tset–2°C	ļ
12	bC	Not used	-	00	00	
				00	00	
13	bd	Not used	-	01	01	
				00	00	
14	bE	Not used	-	01	01	
15	C1	Notused	_	00	00	
				01	01	
16	C2	Not used	-	-	Not Used(Use as 00 setting conditions)	
17	C3	Not used	-	00	00	
				01	00	
18	C4	Not used	-	00	01	
				00	Standard static pressure/ Standard speed	
19	C5	Static pressure sel. / Increase Fan Hi	0	01	High static pressure/ Hi speed 1(*6)	
		speed		02	Low static pressure/ Hi speed 2	
20	6	Increase of fan speed at heating	0	00	Unavailable	
20		Thermo-OFF	Ŭ	01	Available	
21	C7	Cancel 3 min. compressor starting	0	00	Standard	
		delay		01	Cancellation	
		Sensor selection for indoor temp		00	Wired controller sensor/ THM4(remote sensor)	
22	C8	control	0	02	Average return air sensor and (controller sensor)	
				-	remote sensor)	
23	C9	Not used	-	-	Not Used(Use as 00 setting conditions)	
24	CA	Not used	-	-	Not Used(Use as 00 setting conditions)	
				00	Normally Open	
25	Cb	Selection of forced stoppage logic	0	01	Normally Closed	
26	- CC	Noturod		00	00	
20			-	01	01	
27	Cd	Not used	-	00	00	
				01	01	
28	CE	Not used	-	00		
	I		1	101		1

Table A. Optional Setting Items for Function Selection
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No.	Item	Optional Function	Individual Setting	Setting Condition	Contents	Setting
				00	Standard setting (7 steps)	
29	CF	Change of Louver Swing Angle	0	01	Cold draft (5 steps)	
				02	High ceilings (5 steps)	
				00	Unavailable	
30	d1	Power Supply ON/OFF 1	0	01	Available	
31	d2	Not used	-	-	Not Used(Use as 00 setting conditions)	
22	42	Bower Supply ON/OFF 2		00	Unavailable	
32	us		0	01	Available	
22	da	Prevention of low air outlet	0	00	Unavailable	
33	u4	temperature in cooling mode(*7)	0	01	Available	
24	dE	Prevention of low air outlet		00	Unavailable	
54	us	temperature in heating mode	0	01	Available	
25	de	Netwood		00	00	
55	00	Not used	-	01	01	
				00	Default setting	
				01	100 cm	
				02	150 cm	
20	7.6			03	200 cm	
36		Lower the elevating grille	-	04	250 cm	
				05	300 cm	
				06	350 cm	
				07	400 cm	
				00	AUTO venti./ Disabled/ Standard process	
37	E1	Ventilation Mode(for Total Heat	-	01	THEX venti.	
		Exchanger)		02	Normal venti.	
		Increasing Supply Air Volume(for Total		00	Unavailable	
38	E2	Heat Exchanger)	-	01	Available	
				00	00	
39	E3	Not used	-	01	01	
		Proceeding / Probacting Pariod/for		00	Function not available (default setting)	
40	E4	Total Hoat Exchanger)	-	01	30 min.	
				02	60 min.	
/11	E5	Notused	_	00	00	
71	L.5			01	01	
		Indoor fan operation time after cooling		00	Unavailable	
42	E6	operation stoppage	0	01	60 min.	
		operation stoppage		02	120 min.	
12	F 7	Notusod		00	00	
43		Not used	_	01	01	
		Indoor Unit fan control during heating		00	Fan operation is Low speed (default setting)	
44	E8	Thermo-OFF (remote sensor)	0	01	Fan stopped (with remote sensor) or Slow speed	
		memo-orr (remote sensor)			(without remote sensor)	
15	FQ	Notused	_	00	00	
-13				01	01	
16	FA	Notused	_	00	00	
-0				01	01	
				00	Function deactivated (default setting)	
47	Eb	IU Fan speed during cooling thermo-off	0	01	Low	
				02	Slow	
48	FC	Forced Thermo-ON after cooling	0	00	Unavailable	
-10		operation stop		01	Available	
<u>4</u> 9	Fd	Notused	_	00	00	
				01	01	
50	FF	Automatic Fan Speed Control	0	00	Unavailable	
				01	Available	
51	FF	IU fan speed set to Auto allowing High	0	00	Unavailable	
<u> </u>		2 speed	Ĺ	01	Available	ļ
52	F0	Not used	-	-	Not Used(Use as 00 setting conditions)	

No.	Item	Optional Function	Individual Setting	Setting Condition		Contents	Setting
				00	No Function		
				01	1h		
				02	2h		
				•	•		
53 F1			•	•			
			23	23h			
	Automatic OFF Timer Setting	×	24	24h			
	55 FI			0A	30 min.		
				0B	90 min.		
				0C	40 min.		
				0D	45 min.	Do not set them when two	
				0E	50 min. 🚺	wired remote controllers	
				0F	55 min.	are used.	
54	E.2	Controller primary secondary setting	×	00	Primary		
J4	12	controller primary-secondary setting	^	01	Secondary		
55	E2	Automatic Reset of Setting	×	00	Unavailable		
55	15	Temperature (*8)	^	01	Available		
				00	30 min.		
56	E4	Automatic Reset Time	×	01	15 min.		
50	14	Automatic Reset Time	~	02	60 min.		
				03	90 min.		
				19	19°C		
			20	20°C			
				21	21°C		
			×	22	22°C		
				23	23°C		
57	E5	Automatic Reset Temperature for Cooling (*9)		24	24°C		
51				25	25°C		
				26	26°C		
				27	27°C		
				28	28°C		
				29	29°C		
				30	30°C		
				17	17°C		
				18	18°C		
				19	19°C		
				20	20°C		
				21	21°C		
				22	22°C		
58	F6	Automatic Reset Temperature	×	23	23°C		
		for Heating (*10)		24	24°C		
				25	25°C		
				26	26°C		
				27	27°C		
				28	28°C		
				29	29°C		
		Operation stoppage provention by		30	JUD U		
59	F7	wired controller operation arrev(*11)	×	00			
\mid		Lock Function for Operation Mode		00	Available		
60	F8	Soloction	×	00	Available		
\vdash				00	Linavailable		
61	F9	Lock Function for Temperature Setting	×	00			
				00	Unavailable		
62	FA	Lock Function for Fan Speed Selection	×	00			
		Lock Function for Swing Louver		00	Unavailable		
63	Fb	Operation	×	01	Available		
	L			<u> </u>			

No.	Item	Optional Function	Individual Setting	Setting Condition	Contents	Setting
				00	19°C (Default setting)	
				01	20°C	
				02	21°C	
			×	03	22°C	
	64 FC			04	23°C	
64		Lower limit for cooling temperature		05	24°C	
		setting (*9)		06	25°C	
				07	26°C	
				08	27°C	
				09	28°C	
				10	29°C	
				00	30°C (Default setting)	
				01	29°C	
				02	28°C	
				03	27°C	
				04	26°C	
		Upper limit for heating temperature		05	25°C	
65 Fd	setting (*10)	×	06	24°C		
				07	23°C	
			08	22°C		
				09	21°C	
				10	20°C	
			11	19°C		
				12	18°C	
66	FE	Not used	-	00	00	
			1	01	01	
67	FF	Not used	-	00	00	
			1	01	00	
68	H1	Not used	-	01	01	
				00	Indication	
69	H2	Indication of Hot Start	×	01	No Indication	
				00	00	
70	H3	Not used	-	01	01	
				00	00	
71	H4	Not used	-	01	01	
				00	00	
12	J1	Not used	-	01	01	
73	J2	Not used	-	-	Not Used(Use as 00 setting conditions)	
				00	Green	
14	13	Run Indicator Color	×	01	Red	
7.5				00	00	
15	J4	Not used	×	01	01	
70	15	Netuced		00	00	
10	12		-	01	01	
77	16	Frror Sound	×	00	Once	
	30			01	Continuous	
78	17	Notused	×	00	00	
L.				01	01	
79	J8	Eco-operation (*11)	×	00	Unavailable	
L				01	Available	ļ
80	J9	Not used	-	00	00	
L				01	01	<u> </u>
81	JA	Select the Simple Maintenance menu	×	00	Unavailable	
				01	Available	
82	Jb	Not used	-	00	00	
				01	101	1

No	Itom	Ontional Function	Individual	Setting	Contonto	Cotting	
NO.	Item	Optional Function	Setting	Condition	Contents	Setting	
				00	0°C(0°F)		
				01	-0.5°C(-1°F)		
				02	-1.0°C(-2°F)		
				03	-1.5°C(-3°F)		
				04	-2.0°C(-3°F)		
				05	-2.5°C(-4°F)		
				06	-3.0°C(-5°F)		
		Calibration for controller temp.		07	-3.5°C(-6°F)		
83	JC	sensor	×	08	+0.5°C(+1°F)		
				09	+1.0°C(+2°F)		
				10	+1.5°C(+3°F)		
				11	+2.0°C(+3°F)		
				12	+2.5°C(+4°F)		
				13	+3.0°C(+5°F)		
				14	+3.5°C(+6°F)		
				15	0°C (0°F)		
				00	30°C(86°F)		
				01	20°C(84°E)		
				02	23°C (82°F)		
				02	27°C (80°E)		
				04	26°C (78°E)		
01	Id	Upper limit for cooling temperature		04	26 C (78 F)		
04	Ju	setting	-	05	23 C (77 F)		
				00	24 C (76 F)		
				07	23 C (74 F)		
				08	22 C (72 F)		
					09		
				10	20°C (68°F)		
				00	1/°C (62°F)		
				01	18°C (64°F)		
				02	19°C (66°F)		
				03	20°C (68°F)		
				04	21°C (70°F)		
		Lower limit for heating temperature		05	22°C (72°F)		
85	JE	setting	-	06	23°C (74°F)		
				07	24°C (76°F)		
				08	25°C (77°F)		
				09	26°C (78°F)		
				10	27°C (80°F)		
				11	28°C (82°F)		
				12	29°C (84°F)		
86	к1	Notused	_	00	00		
				01	01		
87	кр	Notused	_	00	00		
				01	01		
88	K3	Notused		00	00		
	1.5		_	01	01		
89	ка	Notused	_	00	00		
				01	01		
				00	Standard setting		
90	K5	Motion sensor detection level	0	01	High		
				02	Low		
		Operation mode coloction when		00	ALL		
01	KC	Operation mode selection when		01	COOL/DRY		
91	NO	function	0	02	HEAT		
				03	ALL		
				00	Default setting		
0.2	1/7	Radiant Temp. sensor detection		01	Upper		
92		level	-	02	Lower		
				03	Preliminary setting		
			İ	00	00		
93	K8	Not used	-	01	01		
	1/2	Netword	İ	00	00		
94	K9	Not used	-	01	01		
				00	00		
95	KA	Not used	-	01	01		

No.	Item	Optional Function	Individual Setting	Setting Condition	Contents	Setting
			Setting	00	Α	
				01	В	
96	Ll	Setting Position of Motion Sensor	-	02		
				03	D	
97	L2	Not used	-	00	00	
				01	01	
98	13	Select louver operation in energy-	0	00	Low all flow Medium air flow	
50	23	saving ThOFF (COOL & DRY)(*12)	Ŭ	02	High air flow	
	1.4	Fan Speed during Energy-Saving		00	Usual setting	
99	L4	Forced Thermo-OFF	0	01	Available	
100	L5	Louver Swing Operation Energy-	0	00	Unavailable	
		Saving Forced Thermo-OFF		01		
101	L6	Not used	-	00	01	
102	L7	Not used	-	-	Not Used (Use as 00 setting conditions)	
				00	00	
103	L8	Not used	-	01	01	
104	19	Notused	-	00	00	
				01	01	
105	LA	Humidifier blow control On/Off	-	00		
		Humidifier blow control time		00	4hours ON 30min OFF	
106	Lb	setting	-	01	30min ON 10min OFF	
107	D1	Sotting tomporature	,	00	0.5°C steps	
107	L T		Â	01	1°C steps	
108	P2	Not used	-	00	00	
				00	Inlet Air Thermistor	
				01	Outlet Air Thermistor	
109	P3	Select temperature sensor(*13)	×	02	Thermistor of Wired Controller	
				03	Remote Sensor	
110	P4	Temperature sensor display(*14)	×	00	Unavailable	
		Tomporature setting display in fap		01	Available	
111	P5	mode	×	00	Hide	
112	DC	Netword		00	00	
112	P6	Not used	-	01	01	
113	P7	Menu screen transition prohibited	×	00	Unavailable	
				01	Available	
114	P8	Maintenance explanation display	×	00		
				00	Available	
115	P9	Alarm explanation display	×	01	Unavailable	
116	PA	Davlight Savings Time	×	00	00	
				01	01	
117	Pb	Not used	-	00	01	
110		Netword		00	00	
118	PC	Not used	-	01	01	
119	a1	Not used	×	00	00	
	1			01	01	
120	q2	Not used	×	00	01	
101		Netword		00	00	
121	d3	NOT USED	×	01	01	
122	a4	Not used	×	00	00	
	·			01	01	
123	q5	Not used	×	00	01	
4.0.1	-			00	00	
124	q6	NOT USED	×	01	01	
125	α7	Not used	×	00	00	
1	^ч '		1	01	01	1

No. Notation (Notation) Setting (Notation) Output (Notput (Notput(Notation)) Output (Notation)	No	Itom	Ontional Function	Individual	Setting	Contonto	Cotting
125 04 Not used 1 0 0 0 127 40 Not used 1 0	NO.	Item	Optional Function	Setting	Condition	Contents	Setting
No. No. No. Image: constraint of the set of the	126	80	Notused	_	00	00	
127 49 Not used 00 00 128 4A Not used 0.0 00 0.0 128 a Out used 0.0 00 0.0 0.0 129 a peration mode with Setback 0.0	120	40			01	01	
1 1 0 01 01 01 128 qA Not used - 00 00 00 129 qb operation mode with Setback * 00 Unavailable * 130 qC Temp, differential for the Setback operation * 00 200 (SVT) * 00 200 (SVT) 130 qC Temp, differential for the Setback operation * 00 200 (SVT) * * 00 200 (SVT) * * * 00 200 (SVT) *	127	q9	Not used	-	00	00	
128 44 Not used					01	01	ļ
129 number of the set of t	128	qA	Not used	-	00	00	
129 40 Operation mode with Setback × 000 HST entry (COL & HEXT (COL & HEXT (COL & HEXT) (COL & H					00		
129 op operation mode with Setback operation × 00 000 ketFar 000 ketF					01		
Image: state in the set of the s	129	qb	Operation mode with Setback	×	02	HEAT only	
130 qC Temp, differential for the Setback operation > 00 207C(3 ⁺) 131 qd Immunication for the Setback operation > 00 10 ⁻ (7) ⁺) 133 qd Immunication for the Setback operation > 00 10 ⁻ (7) ⁺) 133 qd Immunication for the Setback operation > 00 10 ⁻ (7) ⁺) 134 qd Immunication for the Setback operation > 00 10 ⁻ (7) ⁺) 135 qf Setback Mode × 00 10 ⁻ (7) ⁻ (7) 134 qf Operation state after Setback operation > 00 Navays 135 qf Operation state after Setback operation > 00 Navays 135 qf Operation state after Setback operation > 00 Navays 136 qf Operation state after Setback operation > 00 Navays 137 qf Differential tomp, setting for cooling-theating changeover × 00 Navas operation 138 qf Operation ends × 00 Navas operation Navas operation 138 qf Setback Temperature operature o					03	COOL & HEAT	
130 9C amp. differential for the Setback operation * 0.1 30.0C(SF) 30 400C(2F) 400C(2F) 400 400C(2F) 400 131 V V 0.0 10 min. 20 min. 30 min. 30 min. 30 min. 30 min. 400 30 min. 30 min. 30 min. 400 30 min. 400 30 min. 400 132 V V V V 400 10 min. 400 50					00	2.0°C(3°F)	
130 qc length interential for the settack operation x Q2 407(77) (247) 131 qd human settack operation settack operation <td< td=""><td></td><td></td><td>To man differential for the Catheral</td><td></td><td>01</td><td>3.0°C(5°F)</td><td></td></td<>			To man differential for the Catheral		01	3.0°C(5°F)	
13 0.00000000000000000000000000000000000	130	qC	nemp. differential for the Setback	×	02	4.0°C(7°F)	
Image: biologic			operation		03	5.0°C(9°F)	
131 q.d Indiana Indiana Indiana 131 q.d Minimum stop time of Setback x Indiana Indiana 132 q.d Minimum stop time of Setback x Indiana Indiana 132 q.d Setback Mode x Indiana Indiana Indiana 133 q.d Setback Mode x Indiana Indiana Indiana 134 q.d Operation site after Setback x Indiana Indiana Schedule Indiana Indiana 133 q.d Operation site after Setback x Indiana India India Indiana <td></td> <td></td> <td></td> <td></td> <td>04</td> <td>1.0°C (2°F)</td> <td></td>					04	1.0°C (2°F)	
131 44 Inin, and and an an an and an an an an an an an an an an an an an					00	10 min.	
131 qd Immune stop time of Setback * Immune stop time of Setback Stop Setback Operation : : : </td <td></td> <td></td> <td></td> <td></td> <td>01</td> <td>20 min.</td> <td></td>					01	20 min.	
131 quite Minimum stop time of Setback x 03 40 min. 60 min. 131 quite Minimum stop time of Setback x 06 70 min. 60 min. 132 quite setback Mode x 00 Always 100 min. 132 quite setback Mode x 00 Always 100 min. 133 quite operation state after Setback x 00 Stop Manual 134 quite operation state after Setback x 000 Stop 100 135 quite operation state after Setback x 000 Unavailable 100 134 quite out setbacin x 000 Unavailable 100 135 quite pifferential temp. setting for Cooling-Heating changeover x 000 107C (2F)(Default) 15C (3F) 136 quite pifferential temp. setting for Cooling-Heating changeover x 000 107C (2F)(Default) 15C (3F) 137 r4 setback Temperature for Setback s Setback (F) 33 <t< td=""><td></td><td></td><td></td><td></td><td>02</td><td>30 min.</td><td></td></t<>					02	30 min.	
131 qd Software 20 min. 131 qd Software 70 min. 132 qd Software 90 min. 132 qf Seback Mode 20 min. 133 qf Seback Mode 20 min. 133 qf Seback Mode 20 min. 133 qf Seback Mode 20 min. 134 qf Operation state after Seback 20 min. 135 qf Operation state after Seback 20 min. 136 qf Dual Sepoint 20 min. 137 pifferential temp. setting for cooling-Heating changeover 20 min. State before Seback Operation 138 r.4 Dual Seboint 20 min. 10°C (2°F)(Default) 10°C (2°F)(Default) 139 r.4 State before Seback Operation 20 min. 20 min. 139 r.4 State before Seback Operation 20 min. 130 r.5 Not seback Temperature 20 min. 20 min. 139 r.6 Enble/Disable Auto-FrostWash 2 1 min. 20 min. 130					03	40 min.	
131 qd Minimum stop time of Setback × 06 To min. 07 80 min. 08 90 min. 07 80					04	50 min.	
132 4.4 Febre and Sectors 10.1	131	qd	Minimum stop time of Setback	×	05	70 min	
12 4 Enable/Disable Auto-FrostWash 1 10 00					07	80 min	
132 q.F. Setback Mode * 00 100 min. 110 min. 133 q.F. Setback Mode * 00 Always * 133 q.F. Setback Mode * 01 Input 133 q.F. Operation state after Setback operation ends * 01 Run 134 r.1 Dual Setpoint * 01 Run * 135 r.2 Operation state after Setback operation ends * 01 Nanual 134 r.1 Dual Setpoint * 01 Run 135 r.2 Differential temp. setting for Cooling-Heating changeover * 01 1.5°C (3°F) 135 r.2 Setback Temperature Cooling-Heating changeover * 05 0.5°C (1°F) 136 r.4 Enable/Disable Auto-FrostWash 2 01 1.0°C (2°F) 136 r.4 Enable/Disable Auto-FrostWash 2 01 1.0°C (2°F) 137 r.4 Enable/Disable Auto-FrostWash 2 01 1.0°C (2°F) 138 r.5 SofC (1°F) 138 r.4 Enable/Dis					08	90 min.	
11 110 min. 110 min. 110 min. 132 qE Setback Mode 00 Always 000 Always 133 qF Operation state after Setback operation ends × 000 Always 000 Always 133 qF Operation state after Setback operation ends × 000 Manual 000 Always 134 r1 Dual Setpoint × 000 Manual 000 Awailable 135 r2 Differential temp. setting for Cooling-Heating changeover × 000 10°C (2°F)(Default) 10°C (2°F) 136 r3 Setback Temperature Cooling-Heating changeover × 000 10°C (2°F) 000 10°C (2°F) 137 r4 Enabe/Disable Auto-FrostWash 2 r- 000 10°C (2°F) 000 00°C (3°F) 138 r5 Setback Temperature Compensation r 000 00°C (3°F)					09	100 min.	
Image: constraint of the section of the sectin of the section of the section of					10	110 min.	
132					11	120 min.	
132 qE Setback Mode * 0.1 Input Schedule Manual 133 qF Operation state after Setback operation ends * 0.00 Stop 134 qI Jual Setpoint * 0.00 State before Setback Operation 134 r1 Jual Setpoint * 0.00 Unavailable Available * 135 r2 Differential temp. setting for Cooling-Heating changeover * 0.00 1.0°C (2°F)(Default) 135 r2 Differential temp. setting for Cooling-Heating changeover * 0.01 1.0°C (2°F) 136 r2 Differential temp. setting for Cooling-Heating changeover * 0.05 0.5°C (1°F) 136 r2 Setback Temperature Compensation N 0.5°C (1°F) 0.5°C (1°F) 137 r4 Enable/Disable Auto-FrostWash 2 - 0.00 0.0°C 138 r7 Nt used 0.1 Nuavailable 1.1°C 139 r4 Enable/Disable Auto-FrostWash 2 - 0.00 0.0 139 r4 Enable/Disable Auto-FrostWash 2 - 0.00 Allow 139 r6 ForstWash Automatic Setting - 0.00 Allow 139 </td <td></td> <td></td> <td></td> <td></td> <td>00</td> <td>Always</td> <td></td>					00	Always	
122 qE Setuate Mode A 0.2 Schedule 133 qF Operation state after Setback operation ends N Stop 133 qF Operation state after Setback operation ends × 0.01 Run 134 r1 Dual Setpoint × 0.00 Unavailable ////////////////////////////////////	122	~F	Sathack Mada		01	Input	
Image: constraint of the section of the sectin of the section of the section of the section of the sect	132	qE	Setback Mode		02	Schedule	
133 qF Operation sate after Setback operation ends x 000 01 01 00 00 00 00 00 00 00 00 00 00					03	Manual	
133qFOperation ends \times 01Run 02State before Setback Operation134r1Dual Setpoint \times 00Unavailable Available135r2Differential temp. setting for Cooling-Heating changeover \times 001.5°C (2°F)(Default) 04135r2Differential temp. setting for Cooling-Heating changeover \times 001.5°C (2°F) 03136r3r3Setback Temperature Compensation \times 050.5°C (1°F) 15136r3Setback Temperature Compensation \times 050.5°C (1°F) 15137r4Enable/Disable Auto-FrostWash 2-001.0°C (2°F) 15139r5Not used-0000139r6FrostWash Manual Setting \times 00Allow Prohibit141r8Enable/Disable Auto-FrostWash \times 00Run/Stop allowed (not word (not advised for safety reasons) Only separation allow 2142r9Renote control prohibitin during Setback Operation \times 00Run/Stop allowed (not word (not advised for safety reasons) Only separation allow 2			Operation state after Setback		00	Stop	
134 11 Dual Setpoint 02 State before Setback Operation 134 11 Dual Setpoint 0 Unavailable 135 12 Differential temp. setting for Cooling-Heating changeover 00 1.0°C (2°F)(Default) 135 12 Differential temp. setting for Cooling-Heating changeover × 00 1.0°C (2°F)(Default) 136 13 5 Differential temp. setting for Cooling-Heating changeover × 00 0.0°C (3°F) 136 7.3 Setback Temperature Compensation × 05 0.5°C (1°F) 136 7.4 Enable/Disable Auto-FrostWash 2 - 05 0.5°C (1°F) 137 7.4 Enable/Disable Auto-FrostWash 2 - 00 00 138 r5 Not used - 00 Available 139 r6 FrostWash Manual Setting × 00 Allow 141 r8 Enable/Disable Auto-FrostWash × 00 Prohibit 141 r9 Remote control prohibition during Setback a	133	qF	operation ends	×	01	Run	
134 r1 Dual Setpoint × 00 Unavailable 135 r1 Differential temp. setting for CoolingHeating changeover × 00 1.0°C (2°F)(Default) 135 r2 Differential temp. setting for CoolingHeating changeover × 00 1.0°C (2°F) 04 3.0°C (5°F) 0.5°C (1°F) 0.5°C (1°F) 0.5°C (1°F) 136 r3 Setback Temperature Compensation × 00 1.0°C (2°F) 137 r4 Enable/Disable Auto-FrostWash 2 - 00 Available 138 r5 Not used - 00 Available 139 r6 FrostWash Manual Setting × 00 Allow 141 r8 Enable/Disable Auto-FrostWash × 00 Allow 141 r8 Enable/Disable Auto-FrostWash × 00 Allow 141 r8 Enable/Disable Auto-FrostWash × 00 Disable 142 r9 Remote control prohibition during Setback operation × 00 Run Xstop atlowed					02	State before Setback Operation	ļ
135 r_2 Differential temp. setting for Cooling-Heating changeover \times 001.0°C (2°F)(Default) 011.5°C (3°F) 0.32.0°C (3°F)136 r_3 R_3 <td< td=""><td>134</td><td>r1</td><td>Dual Setpoint</td><td>×</td><td>00</td><td>Unavailable</td><td></td></td<>	134	r1	Dual Setpoint	×	00	Unavailable	
135 r_2 Differential temp. setting for Cooling-Heating changeover x 000 $1.0 \ C \ 2^{-} \ (3^{-} \ F)$ 136 r_1^{-2} Differential temp. setting for Cooling-Heating changeover x 020 030 $2.5^{\circ} \ (3^{+} \ F)$ 136 r_1^{-2} $r_2^{-2} \ (3^{+} \ F)$ 03 $0.5^{\circ} \ (1^{+} \ F)$ 04 $0.5^{\circ} \ (1^{+} \ F)$ 136 r_1^{-2} $r_2^{-2} \ (3^{-} \ F)$ $0.5^{\circ} \ (1^{+} \ F)$ $0.5^{\circ} \ (1^{+} \ F)$ 136 r_1^{-2} $r_2^{-2} \ (3^{-} \ F)$ $1.0^{\circ} \ (2^{-} \ F)$ $1.0^{\circ} \ (2^{-} \ F)$ 137 r_4 Enable/Disable Auto-FrostWash 2 $ 000$ 00° 138 r_5 Not used $ 000$ 00° 139 r_6 FrostWash Manual Setting \times 000 $10^{\circ} \ Prohibit$ 141 r_8 Enable/Disable Auto-FrostWash 2 \times $000^{\circ} \ 00^{\circ}$ $10^{\circ} \ Prohibit$ 141 r_8 Renote control prohibition during Setback operation \times $000^{\circ} \ 00^{\circ}$ $01^{\circ} \ 01^{\circ} \ 01^{\circ}$ 142 r_8 Renote control prohibition during Setback operation \times $00^{\circ} \ 01^{\circ} \ 01^$					01	Available	
135 $r2$ Differential temp. setting for Cooling-Heating changeover× 02 $2.0^{\circ}C(3^{\circ}F)$ 03 $2.5^{\circ}C(4^{\circ}F)$ 04 $3.0^{\circ}C(5^{\circ}F)$ 05 $0.5^{\circ}C(1^{\circ}F)$ 136 $r3$					00	1.0°C (2°F)(Delault)	
135r2Contention terms, secting to Cooling-Heating changeover \times 032.5°C (4°F) 0.3°C (5°F) 0.5°C (1°F)136r3Setback Temperature Compensation \times 050.5°C (1°F)137r4Enable/Disable Auto-FrostWash 2 $-$ 0000 01138r5Not used $-$ 0000 01139r6FrostWash Manual Setting r \times 00 01Allow Prohibit140r7FrostWash Automatic Setting r \times 00 01Allow Prohibit141r8Enable/Disable Auto-FrostWash 2 \times 00 01 01Allow Prohibit141r9Remote control prohibition during Setack operation \times 00 00 01Run/Stop nallowed Run Stop nallowed Run Stop nallowed142r9Remote control prohibition during Setack operation \times 00 00 01 01Run/Stop nallowed Run Stop nallowed			Differential temp setting for		01	1.5 C (3 F) 2 0°C (3°F)	
$ \begin{array}{ c c c } & \hline \begin{tabular}{ c c } & \hline \be$	135	r2	Cooling-Heating changeover	×	02	2.5°C (4°F)	
1361370.50.5% (1°F)137r3Setback Temperature Compensation x 050.5% (1°F)138r3Setback Temperature Compensation x 050.5% (1°F)137r4Enable/Disable Auto-FrostWash 2 $-$ 00Available 01Unavailable138r5Not used $-$ 0000139r6FrostWash Manual Setting \times 00Allow 01Prohibit141r8Enable/Disable Auto-FrostWash \times 00Allow Prohibit141r9Remote control prohibition during Setback operation \times 00Run & Stop allowed Run & Stop not allowed (not advised for safety reasons) Opi vog allowed			cooling heating changeover		04	3.0°C (5°F)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					05	0.5°C (1°F)	
136 r3 Setback Temperature Compensation × 10 1.0°C (2°F) 15 1.5°C (3°F) 20 2.0°C (3°F) 20 2.0°C (3°F) 25 2.5°C (4°F) 30 3.0°C (5°F) 35 3.5°C (6°F) 40 4.0°C (7°F) 45 4.5°C (8°F) 50 5.0°C (9°F) 55 5.5°C (10°F) 137 r4 Enable/Disable Auto-FrostWash 2 - 00 Available 138 r5 Not used - 01 101 139 r6 FrostWash Manual Setting × 00 Allow 141 r8 Enable/Disable Auto-FrostWash × 00 Allow 141 r8 Fnable/Disable Auto-FrostWash × 00 Disable 141 r8 Enable/Disable Auto-FrostWash × 00 Disable 141 r9 Remote control prohibition during Setback operation × 00 Run/Stop allowed 142 r9 Remote control prohibition during Setback operation × 00 Run/Stop allowed <td< td=""><td></td><td></td><td></td><td></td><td>05</td><td>0.5°C (1°F)</td><td>1</td></td<>					05	0.5°C (1°F)	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					10	1.0°C (2°F)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					15	1.5°C (3°F)	
136 r3 Setback Temperature Compensation × 25 2.5°C (4°F) 30 3.0°C (5°F) 35 3.5°C (6°F) 40 4.0°C (7°F) 45 4.5°C (8°F) 40 4.0°C (7°F) 55 5.0°C (9°F) 137 r4 Enable/Disable Auto-FrostWash 2 - 00 Available 138 r5 Not used - 01 Unavailable 139 r6 FrostWash Automatic Setting × 00 Allow 140 r7 FrostWash Automatic Setting × 00 Allow 141 r8 Enable/Disable Auto-FrostWash × 00 Allow 141 r8 Remote control prohibition during Setback operation × 00 Run/Stop allowed 142 r9 Remote control prohibition during Setback operation × 00 Run/Stop allowed Prohibit					20	2.0°C (3°F)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Sethack Temperature		25	2.5°C (4°F)	
$ \begin{array}{ c c c c c } & & & & & & & & & & & & & & & & & & &$	136	r3	Compensation	×	30	3.0°C (5°F)	
$ \begin{array}{ c c c c c } & & & & & & & & & & & & & & & & & & &$			compensation		35	3.5°C (6°F)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					40	4.0°C (7°F)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					45	4.5°C (8°F)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					50	5.0°C (9°F)	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					55	5.5°C (10°F)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	137	r4	Enable/Disable Auto-FrostWash 2	-	00	Available	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					00	00	+
139 r6 FrostWash Manual Setting × 00 Allow 140 r7 FrostWash Automatic Setting × 00 Allow 141 r8 Enable/Disable Auto-FrostWash × 00 Disable 142 r9 Remote control prohibition during Setback operation × 00 Run/Stop allowed Run & Stop not allowed	138	r5	Not used	-	01	01	
139 r6 FrostWash Manual Setting × 01 Prohibit 140 r7 FrostWash Automatic Setting × 00 Allow 141 r8 Enable/Disable Auto-FrostWash × 00 Disable 142 r9 Remote control prohibition during Setback operation × 00 Run/Stop allowed Run & Stop not allowed Only stop allowed		_			00	Allow	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	139	r6	FrostWash Manual Setting	×	01	Prohibit	
140 11 Prostwash Automatic Setting × 01 Prohibit 141 r8 Enable/Disable Auto-FrostWash × 00 Disable 142 r9 Remote control prohibition during Setback operation × 00 Run/Stop allowed 01 Run & Stop not allowed 01	140	-7	Erect Mach Automatic Catting		00	Allow	
141 r8 Enable/Disable Auto-FrostWash × 00 Disable 142 r9 Remote control prohibition during Setback operation × 00 Run/Stop allowed Run & Stop not allowed (not advised for safety reasons) 02 Only stop allowed	140			×	01	Prohibit	
142 r9 Remote control prohibition during Setback operation × 01 Enable 01 Enable 01 Enable 01 Null 01 Enable 01 Run/Stop allowed Null Null 01 Null 01 Run/Stop allowed 01 Null 02 Only stop allowed	141	rՋ	Enable/Disable Auto-FrostWash	×	00	Disable	
142 r9 Remote control prohibition during Setback operation × 00 Run/Stop allowed Run & Stop not allowed (not advised for safety reasons) 02 Only stop allowed					01	Enable	ļ
Setback operation 01 Run & stop not allowed (not advised for safety reasons) 02 Only stop allowed	142	r0	Remote control prohibition during	,	00	Run/Stop allowed	
	142	19	Setback operation	Î	01	Only stop allowed (not advised for safety reasons)	

No.	Item	Optional Function	Individual	Setting	Contents	Setting
			Setting	Condition	100b	
				00	2006	
				01	400b	
				03	50h	
143	rA	FrostWash interval settings	×	04	100h	
				05	100h	
				06	100h	
				07	100h	
				00	Unavailable	
				01	10 min.	
				02	20 min	
				04	40 min.	
				05	50 min.	
144	rb	Minimum Cool/Heat Time for Auto	×	06	60 min.	
		Cool/Heat Operation		07	70 min.	
				08	80 min.	
				09	90 min.	
				10	100 min.	
				11	110 min.	
<u> </u>				12	120 min.	
				01	20.0°C (68°F)	
				02	21.0°C (70°F)	
				03	22.0°C (72°F)	
				04	23.0°C (74°F)	
				05	24.0°C (75°F)	
				06	25.0°C (77°F)	
				07	26.0°C (78°F)	
				08	27.0°C (80°F)	
				10	28.0°C (82°F)	
				11	30.0°C (86°F)	
				12	31.0°C (88°F)	
				13	32.0°C (90°F)	
				14	33.0°C (92°F)	
				15	34.0°C (94°F)	
				16	35.0°C (95°F)	
				17	36.0°C (96°F)	
				18	37.0°C (199°F)	
		Max. outdoor temp. for Heat		20	38.0 C (100 F) 39.0°C (102°E)	
145	rC	operation in Auto Cool-Heat Dual	×	20	40.0°C (102 F)	
		Setpoint		22	0.0°C (32°F)	
				23	1.0°C (34°F)	
				24	2.0°C (36°F)	
				25	3.0°C (38°F)	
				26	4.0°C (40°F)	
				27	5.0°C (41°F)	
				28	0.0°C (44°E)	
				29	8.0°C (46°E)	
				31	9.0°C (48°F)	
				32	10.0°C (50°F)	
				33	11.0°C (52°F)	
				34	12.0°C (54°F)	
				35	13.0°C (56°F)	
				36	14.0°C (58°F)	
				37	15.0°C (59°F)	
				38	15.0°C (61°F)	
				39 40	18 0°C (64°F)	
				41	19.0°C (66°F)	

No	Itom	Ontional Function	Individual	Setting	Contonto	Cotting
NO.	Item	Optional Function	Setting	Condition	Contents	Setting
				00	Unavailable	
				01	10.0°C (50°F)	
				02	11.0°C (52°F)	
				03	12.0°C (54°F)	
				04	13.0°C (56°F)	
				05	14.0°C (58°F)	
				06	15.0°C (59°F)	
				07	16.0°C (60°F)	
				08	17.0°C (62°F)	
				09	18.0°C (64°F)	
				10	19.0°C (66°F)	
				11	20.0°C (68°F)	
				12	21.0°C (70°F)	
				13	22.0°C (72°F)	
				14	23.0° C (74°F)	
				15	24.0°C (76°F)	
				10	25.0°C (77°F)	
				18	20.0°C (18°F)	
				19	21.0 C (80 F)	
				20	20.0 C (02 F)	
				21	29.0 C (84°F)	
				22	31 0°C (88°E)	
				23	32.0°C (90°F)	
				24	33 0°C (92°F)	
		Min. outdoor temp. for Cool		25	34.0°C (94°F)	
				26	35.0°C (95°F)	
				27	36.0°C (96°F)	
				28	37.0°C (98°F)	
				29	38.0°C (100°F)	
140				30	39.0°C (102°F)	
146	rd	operation in Auto Cool-Heat Dual	×	31	40.0°C (104°F)	
		Setpoint		32	-20.0°C (-4°F)	
				33	-19.0°C (-2°F)	
				34	-18.0°C (0°F)	
				35	-17.0°C (2°F)	
				36	-16.0°C (4°F)	
				37	-15.0°C (5°F)	
				38	-14.0°C (6°F)	
				39	-13.0°C (8°F)	
				40	-12.0°C (10°F)	
				41	-11.0°C (12°F)	
				42	-10.0°C (14°F)	
				43	-9.0°C (16°F)	
				44 45	-8.0°C (18°F)	
				45 46		
				40 17	-5.0°C (23°F)	
				41 18	-4.0°C (24°F)	
				-0 29	-3 0°C (26°F)	
				50	-2.0°C (28°F)	
				51	-1.0°C (30°F)	
				52	0.0°C (32°F)	
				53	1.0°C (34°F)	
				54	2.0°C (36°F)	
				55	3.0°C (38°F)	
				56	4.0°C (40°F)	
				57	5.0°C (41°F)	
				58	6.0°C (42°F)	
				59	7.0°C (44°F)	
				60	8.0°C (46°F)	
				61	9.0°C (48°F)	

No.	Item	Optional Function	Individual	Setting	Contents	Setting
			Setting	Condition		
				00	$15.0^{\circ}C(59^{\circ}F)$	
				01	$15.0^{\circ}C(50^{\circ}F)$	
				02	17.0 C (62 F)	
		Cathoold Activating Taxon for Lloot		03	18.0°C (64°F)	
147	rE	Setback Activating Temp. for Heat	×	04	$19.0^{\circ}C(66^{\circ}F)$	
		Mode		05	$10.0^{\circ}C(50^{\circ}F)$	
				06	11.0°C (52°F)	
				07	12.0° (54°F)	
				08	$13.0^{\circ}C(50^{\circ}F)$	
				09	14.0 ((58 F)	
				00	26.0 C (78 F)	
				01	27.0°C (80°F)	
				02	28.0°C (82°F)	
				03	29.0°C (84°F)	
	_	Setback Activating Temp. for Cool		04	30.0°C (86°F)	
148	r⊦	Mode	×	05	31.0°C (88°F)	
				06	32.0°C (90°F)	
				07	33.0°C (92°F)	
				08	34.0°C (94°F)	
				09	35.0°C (95°F)	
				10	25.0°C (77°F)	
149	S1	Econo outside air high humidity	-	00	Unavailable	
	(*15)	control		01	Available	
150	S2	24-hour ventilation control	-	00	Unavailable	
				01	Available	<u> </u>
151	S3	NightPurge control	-	00	Unavailable	
				01	Available	<u> </u>
152	S4	Fan control based on CO2 sensor	-	00	Unavailable	
				01	Available	
153	S5	Rapid ventilation control at the	-	00	Unavailable	
		start of operation		01	Available	<u> </u>
				00	90 min	
154	S6	Humidifier drying operation	-	01	180 min	
				02	Unavailable	<u> </u>
				00	Unavailable	
155	S7	Suction humidity level setting	-	01	High	
	-			02	Med	
				03	Low	ļ
				00	Standard	
156	S8	Suction humidity control setting	-	01	High Humidity	
				02	Low Humidity	

(*1): Even if temperature sensor selection is changed through "P3" setting, the compensation value will not be changed automatically. Please change b1 setting according to temperature sensor selection.

(*2): The default temperature compensation is +2°C for Floor Exposed type & Floor Concealed type.

(*3): The "02", "03", "04" settings may not be available depending on the type of indoor unit. When connecting multiple indoor units, do separate settings.

(*4): Standard type.

(*5): It is not applicable for Auto mode.

(*6): If Duct type models, 00: Increasing fan speed 1 (standard), 01: Increasing fan speed 2 (high static pressure), 02: Standard (low static pressure).

(*7): Since it depends on the model, please refer to the Service Manual of each model.

(*8): If the set temperature is changed and kept within the set time at "F4", the temperature is automatically changed to "F5" and "F6". (If the set temperature is out of range at "F5" and "F6", it is applied within the upper and lower limits for the set temperature.)

(*9): Applicable to the fan, cooling and dry operation modes.

(*10): Applicable to the heating operation mode.

(*11): When the unit is restarted by the controller, the temperature automatically changes to the setting temperature of "F5" or "F6".

(*12): Available only for 4-Way Cassette Type, 4-Way Cassette Compact Type, 2-Way Cassette Type, 1-Way Cassette Type, Ceiling Type.

(*13): Setting "P4" to "01", then the temperature of selected thermistor (sensor) can be shown.

(*14): Setting "01" can show sensor temperature selected in "P3".

(*15): Items "S1~S8" are available only for new econo-fresh units.

NOTES:

- 1. Power ON, wait 3 minutes and then change the optional setting.
- 2. When changing the "CF" setting (changing the louver swing angle), restore the power supply or allow the louver to make one complete swing fully in the auto-swing mode to apply the optional setting.
- 3. The optional settings may be different according to the indoor and outdoor unit models. Check to ensure that the unit has the optional setting.
- 4. Record the setting conditions for each optional setting in the "Setting" column of the table above.
- 5. The above optional functions marked with an "X" at the individual setting can change the condition only when "All Indoor Units" is set.
- 6. Up to 24 history records can be saved.
- 7. The history is initialized when the function selection and the input/output is initialized.

7. Input/Output Setting

Set Input/output from the Installation Menu. Please refer to Table B and Table C for details on each input setting.

 Set Input/Output Step1. Select "Installation Menu" on the Service & Installation screen and press "OK".



Installation Menu (Mon) 16:30 Test Run Function Selection Thermistor Selection Input/Output Thermistor Calibration in Controller Select





	Item	Input/output : ALL ^{00: Not set} Setting	Connector	
	Input 1	<00: Not set	> CN3 1-2	
	Input 2	00: Not set	CN3 2-3	
	Output 1	00: Not set	CN7 1-2	
	Output 2	00: Not set	CN7 1-2	
	Output 3	00: Not set	CN8 1-2	
OK	Select		🕤 Bao	ck



Step2. Select "Input/Output" setting and press "OK".

Step3. Press "OK".

Step4. Select the indoor unit by pressing "<", "<", 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.)

- Step5. Press " $^{"}$ or " $^{"}$ to select the item.
- Step6. Press "<" or ">" to change the setting.

Step7. Press "OK" and the confirmation screen is displayed.
Step8. 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 unit connected to the remote controller, the screen returns to Step3.
Press "⊃" to return to Step4.

Input Number Display	Dout	Factory Setting	Setting	
Input/Output Indication		Setting Item		Indication
Input 1	CN3 1-2	Remote ON/OFF 1 (Level)	03	
Input 2	CN3 2-3	Forbidding 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	

Table B. Input and Output Number Display and Connectors

Table C. Input and Output Settings and Display Codes

Code Indicated	Input	Output
00	Not set	Not set
01	Room Thermostat (for Cooling)	Operation
02	Room Thermostat (for Heating)	Alarm
03	Remote ON/OFF 1 (Level)	Cooling
04	Remote ON/OFF 2 (Operation)	Thermo-ON for Cooling
05	Remote ON/OFF 2 (Stoppage)	Heating
06	Forbidding Remote Control after Manual Stoppage	Thermo-ON for Heating
07	Remote Cooling / Heating Change	Total Heat Exchanger
08	Elevate Grille Input	Elevate Grille Output
09	Setback Operation	Fan Operation
10~15	Not set	Not set

NOTES:

- 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.

8. Main Remote Setting

To change the sub remote controller to the main remote controller.

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.

• 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

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

	Main	Sub	
Power Saving Details Setting	0	×	
Outdoor Unit	Details Setting	0	×
Capacity Control	Power Savings Level Switch	0	×
Indoor Unit	Details Setting	0	×
Rotation Control	ON/OFF	0	0
	Details Setting	0	0
Intermitient Control	Power Savings Level Switch	0	0
Night Quiet Operation		0	×
Devuer Cevinge Cehedule	Outdoor Capacity Control	0	×
Power Savings Schedule	Intermittent Control	0	0
Night Quiet Operation Schedule	0	×	
Power Up Setting	0	×	
Autoboost	0	0	

Table D. Relation between Main/Sub Controller and Setting Range

○: Available ×: Not Available

• Changing from the sub controller to the main controller.

- Step1. Select "Installation Menu" on the Service & Installation screen by pressing "
 "
 " and press "OK".
- Step2. Select "Main Remote Setting" by pressing " \sim " or " \sim " and press "OK".
- Step3. 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.
 *After the change is completed, the Power Savings Mode will change to "No Setting". After the following functions initialized, reset the setting for the "Power Savings Setting", "Power Saving/Night Quiet Schedule", "Night Quiet Operation", "Priority Setting" and "Power Up Setting".



- Step4. When the change to main remote control is completed, the "Reconfigure each setting" screen is displayed.
- Step5. Press "OK" on the confirmation screen to return to Installation Menu.

NOTES:

- 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 cases where 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.
- If the sub controller is displayed, the main remote controller may not function normally. Please verify the cable connection.
- If a remote control group is operating with multiple refrigerant systems, the ECO function may not operate normally.

9. Priority Setting

You can only set the operation mode and unit temperature setpoint from one specific controller (the main controller) in the same refrigerant system without having to use the central controller. The operation of sub controller is decided by the priority setting and power saving details setting of the main controller.

Example



Table E. List of operations that can be performed when priority is set

		Ren	note Selection	
	Priority Setting	Controller A (Main)	Controller B	and C (Sub)
		Operation Mode Temperature Setpoint	Operation Mode	Temperature Setpoint
Without Priority			0	0
With Driarity	Operation Mode	0		0
With Phonty	Operation Mode + Temperature Setpoint			×

o: Selection Possible

- ▲: Selection Possible Partially
 - Operation Mode + FAN set by Controller A (Main)
 - Only when COOL mode COOL $\leftrightarrow \mathsf{DRY}$
- ×: Selection not possible (Apply to setting temperature of Controller A (Main))

NOTES:

- This controller comes normally pre-set with factory-supplied default settings. It is possible to set, depending on what is pre-set in the priority settings of the Test Run menu.
- Only the temperature setting cannot be set as priority. Also, even if operation mode is set as priority, in the case of COOL/HEAT Automatic Mode, the priority is temporarily overridden.
- It is not possible to set the "Cool/Heat Auto Changeover" and "Priority Setting" at the same time. In addition, the priority will be removed once the "Cool/Heat Auto Changeover" takes effect.
- When using two controllers, it is not possible to set priority.
- If one of the devices in the same refrigerant cycle is connected, the main function cannot be used.
- Outdoor unit or Indoor unit power saving capabilities are not available
- Receiver Kit
- Central Controller
- Advanced Wired Remote Controller and Wired Remote Controller are set "ON" with the selected operation mode, setting adjustment of Temperature Setpoint, and setting adjustment for cooling
- \circ $\,$ Cooling/Heating Changeover Switch Unit $\,$
- 1. Set Operation Mode and Temperature Priority
 - Step1. Select "Installation Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "Priority Setting" and press "OK".
 - Step3. Press " \land " or " \checkmark " to change in order the "No Setting" \leftrightarrow "Operation Mode" \leftrightarrow "Operation Mode + Set Temp".
 - Select the setting and press "OK" to display the confirmation screen.
 - Step4. Press " " to return to the Installation Menu.

10. 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 refer to the dedicated Service Manual for the FrostWash function.

Please configure function selection F1 on the outdoor units, and then set the wired remote controller.*¹ Please also refer to the Operation Manual and Service Manual of Wired Remote Controller for details. Please contact the distributor or service personnel for availability and configuration of this function.

- 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 34°F 110°F (1°C 43°C), and the indoor temperature is in the range of 59°F 86°F (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.

2. Start FrostWash

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

FrostWash setting is not enabled on the factory default setting.^{*1} Refer to "**FrostWash**" in the Operation Manual to enable this function.



- Press "OK" on the wired remote 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 cancelation.
- 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.

NOTE:

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

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.^{*1} Set Function Selection F1 according to the following table.

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

*1: When the air conditioner system supports FrostWash function and the function selection F1 of outdoor unit is set as valid, then the FrostWash is automatically valid.

- *2: Change according to the outdoor unit.
- *3: Change according to indoor temperature and outdoor temperature.
- *4: Only one "Main wired remote controller" exists in the same refrigerant cycle, and all the others are "Sub wired remote controller". Refer to "**8. Main Remote Setting**" in this manual for the details of Main Wired Remote Controller setting.
- *5: 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.

NOTE:

• Refer to the dedicated Service Manual for the FrostWash function.

11. Setback Trigger Unit

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

Step1. Select the indoor unit by pressing "<", "<", "<", or ">" and press "OK" to display the confirmation screen.



Step2. 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.



12. Operation Lock/Unlock Setting

- This function disables the setting mode of the remote controller.
- In the operation lock, when the lock icon "[⊕]" lights up, the mode cannot be changed by pressing "∧" or "∨".
- The following four types of setting modes can be locked.
 - Temperature Setting (Temp)
 - Operation Mode (Mode)
 - $\circ \quad {\sf Fan \ Speed}$
 - Louver Swing (Louver)
- 1. Set Operation Lock/Unlock
 - Step1. In "Service & Installation", select "Service Menu" and press "OK".

Step4. Press " \land " or " \checkmark " to select "Unlock" and press "OK" to

Step2. Select "Lock Function".

confirm the setting.

Step5. Press "⊆" to return to Step3.

Step3. Press"∧" or "∨"and press "OK".
The operation changes as follows:
"Temp. Setting" ↔ "Op. Mode" ↔ "Fan Speed" ↔ "Louver
Swing".

			Mode		8
		< ::- :- :- :- :- :- :- :- :- :-	Cool		
-	Temp	Cool	Fan Speed	Louver	Menu



Temp. Setting Lock Unlock

NOTES:

- If the function selection (item F8-Fb) is set to "01", ⊘ is displayed and the setting item cannot be set.
- Don't use the operation lock function when remote control is set to "prohibit" on the central controller.
- If both the "prohibit lock" and "prohibit remote control" operations are set at the same time, the "prohibit remote control" operation has priority.
- If the setting is changed from "prohibit remote control operations" to "permit all remote control operations", all operation locks are released.

13. Password Setting

The default user password can be changed. If you forget the changed user password, a supervisor password can be used to reset the user password again. The supervisor password is "5567". The password input effective time can be set also.

If the password input effective time has been set, then the password is required to be entered only once during the password effective time.

1. Change Password

Step5.

- Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
- Step2. Select "Password Setting" and press "OK".
- Step3. Select "Change Password" and press "OK".
- Use "^", "\", "<", or ">" to enter the password you want to Step4. set, select "OK" and press "OK".

Select "Not Save", the screen returns to Step3.

Press "☆", the screen returns to Step2.







Set Password Input Effective Time 2.

password.

- Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
- Step2. Select "Password Setting" and press "OK".

Step6. Press "OK", the screen returns to Step2.

- Step3. Select "Effective Time" and press "OK".
- Step4. Press " $^{"}$ or " $^{"}$ to select the setting item and press "OK" to confirm the setting. The item changes as follows: "Everytime" \leftrightarrow "10 min" \leftrightarrow "30 min" \leftrightarrow "60 min" \leftrightarrow "120 min". Press "☆" and it returns to Step3.



NOTES:

- In order to enhance the security protection, please be sure to change the default password.
- If you enter the wrong password more than 5 times, you will not be able to enter the password within 1 minute.
- 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.

14. Hotel Mode Setting

This setting enables or disables the hotel mode.

- Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
- Step2. Select "Hotel Mode" and press "OK".
- Step3. Press " \land " or " \checkmark " to select enabled setting.
- Step4. After selecting, press "OK".
- Step5. Select "Yes" and press "OK" to confirm the settings and display the completion screen.
- Step6. If you select "Cancel", the screen returns to Step3.

NOTE:

• Refer to "Hotel Mode Setting" in Operation Manual.

15. Power Saving Details Setting

This function provides the details for setting the power savings function.

For the "Mode", select one item from each of the following settings, (1) outdoor unit capacity control, (2) indoor unit rotation control, and (3) intermittent control.

NOTES:

- The power savings mode that can be switched differs depending on the type of the outdoor unit or indoor unit.
- Go to Power Savings Setting from Function Menu. Also refer to "Power Savings Setting" in the Operation Manual for details.

Item	Function
Canacity Control	Reduce the heating and cooling capacity of the indoor unit.
	Set control mode and power savings level with its corresponding value.
	Interlock with indoor units of the same outdoor unit system and switch to FAN operation
Rotation Control	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 details settings.

(1) 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 details setting can change the power savings levels.	

- 1. Outdoor Unit Capacity Control Setting
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "Power Saving Details Setting" and press "OK".
 - Step3. Select "Capacity Control" and press "OK".

Capacity Control Rotation Control Intermittent Control Reset Default

Power Saving Details Setting

	Capacity Control				
	Control		Peak Cut Control		
	Sav: Low	:	100%		
	Sav: Med	:	80%		
	Sav: High	:	60%		
Operate in power set value range.					
OK	Select		🕤 Back		
OK	Select		🕤 Back		

Capacity Control	
Peak Cut Control	
Moderate Control 🥥	
Select setting range of power savings.	
OK Select	🕤 Back



Step4. Press "∧" or "∨". The items "Control" ↔ "Sav: Low" ↔ "Sav: Med" ↔ "Sav: High" are displayed in order.

"Sav: High" are displayed in order. Press "∽" to move to Step7.

Step5. 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 Step4.

Step6. Change the power savings level Select "Sav: Low/Med/High" and press "OK". Press " $^{"}$ or " $^{"}$ to set the level. \rightarrow The level changes as follows: $[100\%] \leftrightarrow [90\%] \leftrightarrow [80\%] \leftrightarrow [70\%] \leftrightarrow [60\%] \leftrightarrow [50\%] \leftrightarrow$ $[40\%] \leftrightarrow [0\%].$ After setting, select "OK" and press "OK" and it returns to Step3. Step7. Change level

0
Press " \land " or " \checkmark " to select the item to set and press "OK".
It changes in the order of "Low <-> Med <-> High" \leftrightarrow "Low
only" \leftrightarrow "Med only" \leftrightarrow "High only".
Press "∽" to return to Step 3.

Intermittent Control	
Low <-> Med <-> High	\bigcirc
Low only	
Med only	
High only	
Select setting range of power savings.	
OK Select	🗂 Back

NOTES:

- For the sub remote controller, only the level switching order can be set.
- If the "Power Savings Mode" changes the "Power Saving Details Setting" in outdoor capacity control, the "Power Savings ON/OFF" deactivates.
- The outdoor capacity can be clarified as "Low Power Savings " > "Med Power Savings" > "High Power Savings".
- The cooling/heating capacity can decrease when using the "Power Savings" function.

Item		Description	
	Address Order	The number (address) assigned by the previous indoor unit changes the FAN mode of the indoor unit in ascending order.	
Control Method	Temperature Order	The difference between the temperature setpoint and the indoor unit intake temperature changes the FAN mode in ascending order for the indoor unit.	
	Sensor Order	If the motion sensor is used, this function changes the FAN mode in order, from the indoor unit in a spacious area with few people.	
Change Level		It is possible to change the timing of the FAN operation of the indoor unit.	

(2) Indoor Unit Rotation Control Setting

1. Set Indoor Unit Rotation Control

order.

- Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
- Step2. Select "Power Saving Details Setting" and press "OK". → Power Saving Details Setting screen is displayed.
- Step3. Select "Rotation Control" and press "OK".

Step4. Press " \land " or " \checkmark " to select the setting item.





Step5. 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.

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

The items "Control" and "Fan Mode Time" are displayed in



Step6. Change the Fan Mode Time Select "Fan Mode Time" and press "OK". Press "∧" or "∨" 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.

Rotation Control	
10 min	\bigcirc
5 min	
3 min	
Select time in fan mode per 1 unit.	
OK Select	∽ Back

NOTES:

- Indoor rotation control cannot be set for the sub remote controller.
- If the "Power Savings Mode" changes the "Power Saving Details Setting" in outdoor capacity control, the "Power Saving ON/OFF" deactivates.
- 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.

(3) Intermittent Control Setting

Item	Description
Level Change	The power saving details settings can change the power savings level.

- 1. Set Intermittent Control
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".

 - Step3. Select "Intermittent Control" and press "OK".



Step4. Change level
Press "^" or "\" 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.



NOTES:

- This function cannot be set when only the total heat exchanger is connected.
- Each power savings level repeats the operation as follows:

	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 the "Power Savings Mode" changes the "Power Saving Details Setting" in intermittent control, the "Power Saving ON/OFF" turns OFF.

• The cooling/heating capacity can decrease when using the "Power Saving" function.

(4) Reset Method

- 1. Reset power saving details setting to default values
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "Power Saving Details Setting" and press "OK.
 - Step3. Select "Reset Default" and press "OK".

Step4. Select "Yes" and press "OK", reset the power saving details to default and return to Step2.Select "Cancel" and press "OK", return to Step2.



16. Temperature Range Restriction

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

- 1. Set Temperature Range
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "Temperature Range Restriction" and press "OK".
 - Step3. Select "Upper/Lower Limit for Cooling", "Upper/Lower Limit for Heating" or "Upper/Lower Limit for Auto mode" and press "OK".
 - Step4. Press " \land ", " \checkmark ", " \lt ", or ">" to select the setting value.
 - Step5. After value setting, select "oκ" and press "OK". Press "⊆" to return to Step3.

When Dual Setpoint is enabled, the Upper/Lower limit of the

temperature range restriction can be set for Cooling and Heating

separately. Please note that the settings should follow the rule "cooling upper/lower limit ≥ heating upper/lower limit + 2°C (3°F)".





Upper/Lower Limit for Auto Dual Setpoint Cooling Heating 28°C 25°C 20°C 17°C OK Upper Limit Lower Limit Upper Limit Lower Limit Set the upper limit larger than the lower limit. D Back

NOTES:

- Please ensure that the upper heating limit is set equal to or greater than the lower limit value.
- Different indoor and outdoor units may have different temperature ranges.
- The temperature range restriction settings for Auto mode (including Auto Dual Setpoint) are only available when Auto mode is enabled on this product. Some indoor units may not support Auto mode.
- When using two wired remote controllers connected to the same indoor unit, both the upper and lower limit settings for Auto mode (including Auto Dual Setpoint) are not synchronized on the two controllers. It is necessary to set the same value on each of the two controllers respectively.

17. Dual Setpoint Setting

The setting allows you set the temperature of cooling and heating individually.

To use this function, refer to the Item b8 (Page 10) to enable auto function in function selection.

- 1. Set Dual Setpoint
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "Dual Setpoint" and press "OK".
 - Step3. Press "^" or "\" to select "ON" or "OFF".
 - Step4. Press "OK" to confirm the setting.
 - Step5. Press "[←]]" to return to Step2.

	Dual S	etpoint	
	OFF	\bigcirc	
	ON		
OK Select			🗂 Back

18. Main/Sub Display Setting

The main or sub display of the remote controller can be turned off.

- 1. Set the main/sub display invisible.
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "Main/Sub Display" and press "OK".
 - Step3. Press " \land ", " \checkmark ", " \lt ", or ">" to select "Not Display".
 - Step4. Press "OK" to confirm the setting.
 - Step5. Press " \bigcirc " to return to Step2.



19. Room Name Setting

Register the installation location of the controller.

- 1. Register Room Name
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "Set Room Name" and press "OK".
 - Step3. Press "<" to move cursor to font type. Press "^" or "\" to select the font type.</p>
 *Each time you want to change the font type, press "<" to move the cursor back to font type.</p>
 - Step4. Press ">" to move the cursor to the keypad. Press "\", "\", "<", or ">" to select the font and press "OK" to register it.(Up to 32 characters can be used for each room name.)
 - Step5. After all the characters have been set, select "Fin" and press "OK".
 - Step6. 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.





20. Contact Information Registration

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

- 1. Register Contact Information
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "Set Contact Information" and press "OK".
 - Step3. "Contact Information1" screen is displayed. Press "<" to move cursor to font type. Press "^" or "~" to select the font type.

*Each time you want to change the font type, press "<" to move the cursor back to font type.

- Step4. Press ">" to move cursor to the keypad. Press" \", "\", "<
 ", or ">" to select the font and press "OK" to register it.(Up
 to 60 characters can be can be used for each contact
 information.)
- Step5. After all the characters have been set, select "Fin" and press "OK".
- Step6. "Contact Information2" screen is displayed, repeat Step3, Step4 and Step5.
- Step7. Select "Yes" and press "OK" to confirm the setting and Step2 is displayed.

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



Set Contact Information	
ABCDEFGHIJKLMNOPQRSTUVWYZ12	
ABCDEFGHIJKLMNOPQRSTUVWYZ12	
Register these contents ?	
Yes No	
OK Select	🖒 Back

21. NFC Function

Use the smart phone with NFC function to read and write all the setting data of the wired remote controller. When using NFC, you should make this setting enabled. The default setting is "Enable". NOTES:

- NFC is the abbreviation of "Near field communication".
 - NFC function is supported on the smartphone listed below.

iPhone^{'1} Model: iPhone7 or newer, OS: please refer to the operation manual of airCloud Tap.

Andriod^{*2}Model: Smartphone with NFC function^{*3}, OS: please refer to the operation manual of airCloud Tap.

- *1: Apple and iPhone are trademarks of Apple Inc. registered in the U.S. and other countries and regions. iOS is a trademark or registered trademark of Cisco in the United States and other countries and is used under license.
- *2: Andriod is a trademark registered by Google LLC.
- *3: Some Android smartphone models cannot be supported. Please refer to the App operation manual for details.
- NFC can improve service and installation. If the wired remote controller may be accessible to unauthorized third-party, please set the NFC to "Disable".
- Please refer to the App operation manual for how to use the application.
- 1. Download App

To download the "airCloud Tap" application, search for it on the "App Store®"¹¹ or "Google Play"².

Alternatively, you can scan the code provided below with your smartphone to directly access the application.



*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. Set NFC
 - Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
 - Step2. Select "NFC setting" and press "OK".
 - Step3. Press "</ " or "</ " to select "Enable".
 - Step4. Press "OK" to confirm the setting.
 - Step5. Press "⊖"to return to Step 2.



3. Read and Write Settings

NFC communication can only be performed when the specific screen for it is displayed on the remote control. Please make sure to display the "NFC communication screen" before attempting to read or write settings. Please bring the NFC receiver of the smartphone closer to the NFC receiver of the remote control. NOTES:

- When using an iPhone, NFC is located on the top of the smartphone.
- The location of the NFC depends on the smartphone. Please check the operation manual of your smartphone.
- For NFC operation on smartphone, please refer to the operation manual of airCloud Tap.

- (1) "NFC communication screen" for operations of reading & writing settings, canceling preheating control, operate test run, obtain error history and product information.
 - Step1. Display the home screen on the wired remote controller and hold the "<" and ">" buttons simultaneously for 3 seconds.



Step2. The NFC antenna is built into the wired remote controller LCD screen. Tap the NFC part of the smartphone near the LCD screen.



- (2) "NFC communication screen" for collecting Check 1, Check 2, and Check PCB of the Units
 - Step1. For Check 1 and 2, tap the smartphone over the LCD screen while the values are displayed. The NFC icon appears in the upper right corner of the screen.

	Check	2:01-01		₲ <-
	Value	Item	Value	
b1	91	b6	91	
b2	95	b7	4	•
b3	42	b8	2	•
b4	27	b9	53	
b5	36	bA	92	

Step2. For Check PCB of the Units, tap the smartphone over the LCD screen while the diagnosis result is displayed. The NFC icon appears in the upper right corner of the screen.



22. Backup System Setting

This function is to setup the backup operation for multiple refrigerant system. The operation and standby of units can be set at selected rotation cycle time.

NOTES:

- This function is not available for one or more than five refrigerant systems.
- This function cannot be set when connecting with econo-fresh, total heat exchanger or fresh air ventilator.
- This function is available only when connecting outdoor units and indoor units support it.
- This function is not available when the operation mode is "Cool/Heat Auto Changeover". Also, during operation of the backup system, "Cool/Heat Auto Changeover" is not displayed in the operation mode.
- When using two wired remote controller, this function can only be set on the primary wired remote controller.
- The rotation sequence is the order of the refrigerant system number.
- If "Rotation Cycle Time" or "No. of Refrig. Systems to operate" is changed, the rotation sequence is initialized.
- For the icon of backup system, please refer to the "3.7 Icon Description" in the operation manual.

Backup System Functions

1. Rotation Operation

Operation and standby(X1) are done at rotation cycle time set by the wired remote controller for each refrigerant system.

System Example



Rotation procedure

System1	Operation		Standby	Operation		Standby
					l	
System2	Standby		Operation	Standby		Operation
	<	↔ 30Mins ※ 3				
	Rotation Cycle Ti	me *2				

%1: In fan mode(Thermo-off).

%2: Choose from "9 hours" (default), "24 hours", "48 hours", "72 hours" and "96 hours".%3: In order to stabilize the operation state, it shall be started before 30 minutes.

2. Backup operation when abnormality occurs

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

System Example



Rotation procedure when abnormality occurs



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

3. Backup operation in high load

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

System Example



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.

22.1 Backup System Setting Items

1. Enable/Disable Backup System

This function is to enable/disable rotation operation. Enable: Start rotation operation. Disable: Rotation operation is invalid.(Default)

2. Rotation Cycle Time

Rotation cycle time can be set from "9 hours" (default), "24 hours", "48 hours", "72 hours" and "96 hours".

3. No. of Refrig. Systems to Operate

System Example







Choose 3 Systems



NOTES:

- Number of refrigerant systems to operate are not more than total connected systems.
- Operation before 30 minutes is omitted.
- 4. High Load Startup

This function is to backup operation in high load.

When the setting temperature of cooling and heating are all "OFF", the high load startup is unavailable.

22.2 Set Backup System

- 1. Set Backup System
- Step1. Select "Service Menu" on the Service & Installation screen and press "OK".
- Step2. Select "Backup System Setting" and press "OK".
- Step3. Press"∧" or "∨" to select the setting item. It changes as follows: "Enable/Disable Backup System" ↔ "Rotation Cycle Time" ↔ "No. of Refrig. Systems to Operate" ↔ "High Load Startup".
- Step4. Press "OK" to confirm the selection.
- 2. Enable/Disable Backup System
- Step1. Select "Enable/Disable Backup System" on the backup system setting screen and press "OK".
- Step2. Press "
 "
 " to select "Enable".
- Step3. Press "OK" to confirm the setting.
- Step4. Press "⊆" to return to Step1.



Enable/Disable Backup System	1
Disable	
Enable 📀	
OK Select	🕤 Back

- 3. Rotation Cycle Time
- Step1. Select "Rotation Cycle Time" on the backup system setting screen and press "OK".
- Step2. Press " \uparrow " or " \checkmark " to select the cycle time.
- Step3. Press "OK" to confirm the setting.
- Step4. Press " \bigcirc " to return to Step 1.



- 4. No. of Refrig. Systems to Operate
- Step1. Select "No. of Refrig. Systems to Operate" on the backup system setting screen and press "OK".
- Step2. Press " \land " or " \checkmark " to select the system numbers.

Select "High Load Startup" on the backup

Press " \land " or " \checkmark " to select the setting temperature.

Step3. Press ">" to select "OK", press "OK" to return to Step1.

system setting screen and press "OK".

Step2. Press "<" or ">" to choose Cool/Heat.

- Step3. Press "OK" to confirm the setting.
- Step4. Press "℃"to return to Step1.

5. High Load Startup





<u>NOTE:</u>

Step1.

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

23. Adjusting Date/Time

Set the date and time. The setting is recommended in that it will be used to check the alarm history and set the schedule.

- 1. Adjusting Date/Time
 - Step1. 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.
 - Step2. Select "Screen Display Setting" and press "OK".
 - Step3. Select "Adjusting Date/Time" and press "OK".
 - Step4. Select "Adjusting Date/Time" and press "OK".
 - Step5. Press "<" or ">" to select "yyyy/mm/dd/hh/mm". Press " $^$ " or " $^$ " to change the settings. Press and hold " $^$ " or " $^$ " to increase or decrease continuously. \rightarrow The day of the week changes.
 - Step6. 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.

<u>NOTE:</u>

• Please also refer to "Adjusting Date/Time" in the Operation Manual.

24. Check Menu

This menu displays various statuses of the air conditioner.

1. Enter Check Menu

Step1. 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	Sensor condition of the heat pump are monitored and displayed.
Check 2	Sensor data from the heat pump prior to alarm occurrence is displayed.
Alarm History Display *	Previous alarm history data 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 initialize.

* Press "OK" while the alarm history is displayed, the confirmation screen for deleting the alarm history is displayed.

Select "Yes" and press "OK" to delete the alarm history.

25. ESP Setting

This function is used for adjusting External Static Pressure (ESP). It is available only for selected airCore 700 ducted indoor units that support this feature.

NOTES:

- This function is exclusively available when the system is connected to airCore 700 ducted indoor units that support Auto ESP setting. Please confirm the indoor unit compatibility with your service agent.
- If you are using two wired remote controllers, you can configure this function solely through the primary wired remote controller.

1. ESP Setting

Step1. Select "Service Menu" on the Service & Installation screen and press "OK".

	Service & Installation	(Mon) 16:30
	Service Menu	
	Installation Menu	
	Check Menu	
OK Select		← Back

Service Menu	(Mon) 16:30
Cool/Heat Auto Changeover	
Backup System Setting	
ESP Setting	
Simple Maintenance	
K Salact	6 Pack

Step3. Press" $^{"}$ or " $^{"}$ " to select the setting item.

Step2. Select "ESP Setting" and press "OK".

ESP Setting	
ESP Standard Setting	
ESP Auto Setting	
ESP Manual Setting	
Display ESP Setting	
OK Select	🕤 Back

Step4. Press "OK" to confirm the selection.

2. ESP Standard Setting

Step1. Select "ESP Standard Setting" on the ESP Setting screen and press "OK".



Step2.	Select the indoor unit by pressing "^", "\", "\", or ">"
	and press "OK".
	(This screen is NOT displayed when only one indoor unit
	is connected with the controller. In this case, "Step3" is
	displayed.)

		ESP Standard Setting	
		ALL	
	01-00		
	01-01		
	01-02		
	01-03		
ОК	Enter		🗅 Back

25. ESP Setting

Step3. Press "^"or "~" to select the setting and press "OK" to confirm the setting.

	ESP Standard Setting	
	Standard 🥑	
	Hi speed 1	
	Hi speed 2	
OK Select		∽ Back

Step4. Press "⊃" to return to Step2 screen. Pressing "∧", "∨", "<", or ">" and press "OK" to set another indoor unit, or press"⊃" again to return to ESP Setting screen.

NOTES:

- ESP Standard setting is the same as C5 of function selection.
- When changing C5 of function selection, the change is valid immediately if ESP setting is standard mode. Otherwise, the change will not be valid until ESP setting is changed to standard mode.
- 3. ESP Auto Setting
- Step1. Select "ESP Auto Setting" on the ESP Setting screen and press "OK".



Step2. Select the indoor unit by pressing "\", "\", "\", or ">" and press "OK". (This screen is NOT displayed when only one indoor unit is connected with the controller. In this case, Step3 is displayed.)

Step3. Select "Yes" and press "OK" to start auto ESP.









Step4. In Checking ESP screen,

a. wait for the "Completed" screen shows, select "Continue" and return to Step 2 to select another indoor unit for auto ESP. Or select "Complete" to return to Step1.

A16381H9HF

- b. Press "OK" in Checking ESP screen.
 - b-1 Select "Yes" and press "OK" to stop auto ESP, select "Continue" and return to Step2 to select another indoor unit for auto ESP. Or select "Complete" to return to Step1.
 - b-2 Select "Cancel" to continue auto ESP.
- Step5. Press" □ again to return to ESP Setting screen.

NOTES:

- If two wired remote controllers are connected, when the primary wired remote controller starts auto ESP, the secondary wired remote controller will turn to auto ESP screen from home screen automatically, and turns back to home screen only if:
 - a. the auto ESP is stopped or completed.
 - b. 120mins passed
- In auto ESP process, pressing On/Off button is not valid.
- 4. ESP Manual Setting

and press "OK".

- Step1. Select "ESP Manual Setting" on the ESP Setting screen and press "OK".
- ESP Standard Setting ESP Auto Setting Display ESP Setting

ESP Setting

	ESP Manual Setting
01-00	
01-01	
01-02	
01-03	
OK Enter	⇒ Back



	ESP Manual Setting	
	Change ESP setting to this value? Yes Cancel	ок
OK Sele	ct	➡ Back

(This screen is NOT displayed when only one indoor unit is connected with the controller. In this case, Step3 is displayed.)

Step2. Select the indoor unit by pressing " , ", " , ", " , ", or ">"

Step3. Press "\" or "\" to change the ESP value.

a. Press ">" to select "OK" and press "OK" to save the setting and return to Step2.

b. Press "☆", the "Change ESP setting to this value" shows, select "Yes" and press "OK" to confirm the value change.



- 5. Display ESP Setting
- Step1. Select "Display ESP Setting" on the ESP Setting screen and press "OK".
- Step2. Select the indoor unit by pressing "^", "\", "<", or ">" and press "OK". (This screen is NOT displayed when only one indoor unit is connected with the controller. In this case, Step3 is displayed.)
- Step3. The present setting of mode and ESP value are displayed.

ESP Setting	
ESP Standard Setting	
ESP Auto Setting	
ESP Manual Setting	
Display ESP Setting	
OK Select	← Back

	Display ESP Setting	
	ALL	
01-00		
01-01		
01-02		
01-03		
OK Enter	🕤 Bao	ck

Display ESP Sett	ing: 01-01
Item	Value
Mode	Manual
ESP Value(Pa)	150
	🕤 Back

26. Premium Zoning Function

26.1 Zone Installation Menu

If the wired controller is connected to the zone interface box, "Zone Installation Menu" is displayed in "Service & Installation Menu". For the way of activating zoning kit function, please see Installation and Maintenance Manual of Zone Interface Box.

Step1. Select "Zone Installation Menu" and press "OK".

	Service & Installation	(Mon) 16:30
	Service Menu	
	Installation Menu	
	Check Menu	
	Zone Installation Menu	
OK Select		🕤 Back

NOTES:

- When "common zone setup" is not set, " 🚫 " are displayed for other setting items and they cannot be set.

Zone Installation Menu	(Mon) 16:30
Common Zone Setup	
◎ Zone Activation	
⊘ Zone Labeling	•
🛇 Nominate Spill Zone(s)	
⊘ Sensor Assignment	
Select	🕤 Back

26.1.1 Common Zone Setup

Step2. Press "OK".

A common zone is one that does not have a damper and damper motor installed. Whenever the air conditioning system is operated, this zone is always ON. Refer to Installation and Maintenance Manual of Zone Interface Box for detailed information.

Step1. Select "Common Zone Setup" and press "OK".





Common Zone Setup Available Not Available Select

Step3. Press " \uparrow " or " \checkmark " to select the setting and press "OK".

Step4. Press "⊃" to return to Zone Installation Menu.

26.1.2 Zone Activation

This function is to enable or disable zone from zone1 to zone8.

Step1. Select "Zone Activation" and press "OK".





Step3. Press "OK" to save the setting and return to Zone Installation Menu. Or press "⊃" to return to Zone Installation Menu without saving the setting.

Step2. Press " \land " or " \checkmark " to select zone, press " \lt " to set to

"Activate", press ">" to set to "None".

NOTE:

• The spill zone cannot be set to "None", the spill zone need to be cancelled first.

26.1.3 Zone Labeling

This function is to personalize the naming of zones and sensors.

Step1. Select "Zone Labeling" and press "OK".

Step2. Press " \land " or " \checkmark " to select zone and press "OK".



	Zone Labeling
Item	Name
Zone 1	Bedroom 1
Zone 2	Bedroom 2
Zone 3	Not Set
Zone 4	Hallway
Zone 5	Not Set



- Step3. Press "<" to move cursor to font type. Press "∧" or "∨" to select the font type. *Each time you want to change the font type, press "<" to move the cursor back to font type. *" ♥ " has a list of 12 typical zone names pre-entered, the name will appear in the input box directly once the one is selected.
- Step4. Press ">" to move the cursor to the keypad. Press "^", "\", "<", or ">" to select the font and press "OK".(Up to 12 characters can be used for zone labelling.)

Step5. After all the characters have been set, select "Fin" and press "OK".

Step6. The confirmation screen is displayed. Select "Yes" and press "OK" to confirm the settings and Step2 is displayed.

Zone Lab	peling
Bedroo	om 2
Register these	contents ?
Yes	No
OK Select	🕤 Back

26.1.4 Nominate Spill Zone(s)

Step1. Select "Nominate Spill Zone(s)" and press "OK".

Zone Installation Menu	(Mon) 16:30
Common Zone Setup	
Zone Activation	
Zone Labeling	•
Nominate Spill Zone(s)	
Sensor Assignment	
OK Select	🖒 Back

Nominate	Spill Zone (s)
Item	Status
Spill Zone 1	< Zone 1 >
Spill Zone 2	N/A
Spill Zone 3	N/A
OK Confirm	🕤 Ba

Step3. Press "OK" to save the setting and return to Zone Installation Menu. Or press "⊃" to return to Zone Installation Menu without saving the setting.

NOTES:

- If common zone is not available, at least one spill zone should be nominated.
- Spill Zone1-3 should be set to different zones.

Step2. Press " \land " or " \checkmark " to select spill zone. Press " \lt " or " \flat " to select zone.

26.1.5 Sensor Assignment

This function is to assign the specified sensor to the activated zone. Step1. Select "Sensor Assignment" and press "OK".



Item	Name		Status	
RCS 1	Bedroom 1	<	Zone 1	>
RCS 2	Bedroom 2		N/A	
TS1	Main Room		N/A	
TS2	Hallway		N/A	
IDUS	Living Room		N/A	

Step2. Press " \land " or " \checkmark " to select sensor. Press " \lt " or " \rangle " to assign sensor to the target zone.

Step3. Press "OK" to save the setting and return to Zone Installation Menu. Or press "⊃" to return to Zone Installation Menu without saving the setting.

NOTES:

• Sensor name and description

Sensor Name	Description
RCS1	Temperature Sensor of primary WRC
RCS2	Temperature Sensor of secondary WRC (optional)
TS1	Remote Sensor 1 connected to ZIB (THM2, optional)
TS2	Remote Sensor 2 connected to ZIB (THM3, optional)
IDUS	Inlet Air Temperature Thermistor of IDU

- If only one wired remote controller is connected or Wi-Fi adapter is connected, sensor "RCS2" will not be displayed.
- Multiple sensors can be assigned to one zone.

26.1.6 Airflow

This function is to set the airflow value for each activated zone and common zone(if available).

Step1. Select "Airflow" and press "OK".



Step2.	Press " \land " or " \checkmark " to select zone and press "OK" to
	Step3.
	Or press "☆" to return Zone Installation Menu.

	Airflow	1	
Zone		Airflow (L/s)	
Z1 Bedroom1	Spill	378	
Z2 Bedroom2		275	
Z3 LDK		123	0
Zone 4		58	
Zone 5		78	
OK Confirm			🖒 Back

Step3. Press "<" or ">" to select the item. Press "\" or "\" to set value(unit: L/s).



Step4. Select "OK" and press "OK" to save the setting and return to Step2. Or press "
[→]" to return to Step2 without saving the setting.

26.1.7 Minimum Airflow Ratio

Step1. Select "Minimum Airflow Ratio" and press "OK".



Minimum Airflow Ratio





- Step2. Press "<" or ">" to select the item. Press " $^{"}$ or " $^{"}$ " to set value.
- Step3. Select "[™] and press "OK" to save the setting and return to Zone Installation Menu. Or press "[→]" to return to Zone Installation Menu without saving the setting.

NOTE:

• The value range of Minimum Airflow Ratio is 01~99(%).

26.1.8 Damper Timing

Step1. Select "Damper Timing" and press "OK".

- Step2. Press "<" or ">" to select the item. Press "\" or "\" to set value(unit: Sec.).
- Step3. Select "ok" and press "OK" to save the setting and return to Zone Installation Menu. Or press "⊃" to return to Zone Installation Menu without saving the setting.

NOTE:

• The value range of Damper Timing is 006~150(Sec.).

26.1.9 Turn on All Zones

This function is to turn on all the activated zones at the same time.

Step1. Select "Turn on All Zones" and press "OK".

Step1. Press "<" or ">" to select to select "Yes" or "No", and press "OK" to return to Zone Installation Menu.

26.2 Check for Zoning Kit

This function is to display various statuses of the air conditioner.

- Step1. Select "Check Menu" on "Service & Installation Menu" and press "OK".
- Step2. Select check item in table below and press "OK".Step3. Select "Zoning Kit" and press "OK".

Item	Function
Check 1 (zoning kit)	Sensor condition of zoning kit are monitored and displayed.
Alarm History Display (zoning kit)	Previous alarm history data of zoning kit is displayed (Max 30). The alarm history can be deleted.
Check PCB of the Units (zoning kit)	The result and diagnosis of ZIB's PCB check is displayed.

26.3 Features Not Available When Connected with Zoning Kit

When connected with zoning kit, the following features described previously on this manual will be disabled.

No.	Function
1	Dual Setpoint
2	Hotel Mode
3	Test Run (Fan Speed Setting)
4	Room Name Display
5	Priority Setting
6	NFC Function







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