CITY MULTI R410A SERIES H WATER, and FLOW TEMP. CO	IC OT WATER S ONTROLLER F	UPPLY, Al Remote Co PAR-W2	CE R TO ntroller 21MAA	CAUTION C NOTE: - Choose - Fasten - When r 5. Connect the remot	a flat plane for installation. the switch box at more than twe installing on the wall, fasten so e control cord to the remote To the termina There
his instruction manual describes how to install the Remote Controller for LOW TEMP. CONTROLLER. Please read this manual thoroughly and ir stall CITY MULTI R410A SERIES HOT WATER SUPPLY, AIR TO WATI	r CITY MULTI R410A SERIES I nstall the remote controller acco ER, and FLOW TEMP. CONTR	HOT WATER SUPPLY, A ordingly. For information of OLLER Remote Controll	IR TO WATER, and on how to wire and er, refer to the		to not use crimp terminals to co rouble or contact the cover and
Stallation manual. After the installation, hand over this manual to users. 1 Safety Precautions Read these Safety Precautions and perform installation work accordin The following two symbols are used to dangers that may be caused by Marking This symbol denotes what could lead to ser CAUTION This symbol denotes what could lead to a perform the symbol denotes	igly. y incorrect use and their degree rious injury or death if you misu ersonal injury or damage to you	e: se the PAR-W21MAA. Ir property if you misuse	the PAR-W21MAA.	6. Wiring hole for ins • Cut off the shaded • Take out the remoind 7. Install the cover to	talling directly on the wall (or area from the upper cover usin te control cord connected to the the remote controller.
The end user should keep this manual and units installation manual in repairs the PAR-W21MAA, make sure that this manual is forwarded to	a place where he or she can s the end user.	ee it at anytime. When s	omeone moves or	First, hook the cove	r to the two upper claws and th
Ask your dealer or technical representative to install the unit.	ARNING	k is done correctly followi	ng this	NOTE: A protection	on sheet is stuck to the operati
Install in a place which is strong enough to withstand the weight of the PAR-W21MAA. Any lack of strength may cause the PAR-W21MAA to fall down, resulting in personal injury.	Any deficiency caused by inst All electrical work must be p according to local regulation manual. Any lack of electric circuit or a court is no electric circuit or a	allation may result in an elector performed by a licensed te ns and the instructions given any deficiency caused by instructions	tric shock or fire. chnician, ren in this allation may	This setting cannot be m 1. Before making a test installation manual.	nade with FLOW TEMP. CONT run, refer to the "Test Run" see
Firmly connect the wiring using the specified cables. Carefully check that the cables do not exert any force on the terminals. Improper wiring connections may produce heat and possibly a fire. Never modify or repair the PAR-W21MAA by yourself. Any deficiency caused by your modification or repair may result in an	Do not move and re-install t Any deficiency caused by inst Ask your distributor or special To dispose of this product, o	he PAR-W21MAA yourself allation may result in an elec vendor for moving and insta consult your dealer.	tric shock or fire. Illation.	 Press the [TEST] but Test run starts. Stop the test run by p If trouble occurred du of the unit installatior 	ton twice successively within the pressing the [① ON/OFF] buttor uring the test run, refer to the "T manual.
electric shock or fire. Consult with your dealer about repairs.				5 Function	on Selection
Do not install in any place exposed to flammable gas leakage.	AUTION Do not apply AC100V or AC maximum voltage that can be	200V to the remote contro	ller. The	(1) Function selection The setting of the fol when needed	of remote controller lowing remote controller function
cause an explosion. Do not use in any special environment. Using in any place exposed to oil (including machine oil), steam and sulfuric gas may deteriorate the performance significantly or give damage to the component parts.	The remote controller may be fire. Do not install in any steamy Avoid any place where moistu cause an electric shock or a m	damaged or may generate i place such a bathroom or ire is condensed into dew. D nalfunction.	heat and cause a kitchen. bing so may	Item 1 1. Change Language ("CHANGE LANGUAGE")	Item 2 Language setting to display
When installing the remote controller in a hospital or communication facility, take ample countermeasures against noise. Inverters, emergency power supply generators, high-frequency medical equipment, and wireless communication equipment can cause the remote controller to malfunction or to fail. Radiation from the remote controller may effect communication equipment and prevent medial operations on the	Do not install in any place w spray are often used. Doing so may cause an electr Use standard wires in comp A failure to this may result in a	vhere acidic or alkaline sol ic shock or malfunction. Iliance with the current cap an electric leakage, heating d	ution or special pacity. or fire.	2. Function limit ("FUNCTION SELECTION")	 Operation function limit se ("LOCKING FUNCTION") Operation mode skip settin Temperature range limit se
human body or interfere with image transmission and cause noise. Wire so that it does not receive any tension. Tension may cause wire breakage, heating or fire.	Do not touch any control bu Doing so may cause an electr Do not wash with water.	Itton with your wet hands. ic shock or a malfunction.		3. Mode selection ("MODE	("LIMIT TEMP FUNCTION (1) Remote controller main/su ("CONTROLLER MAIN/SU
Completely seal the wire lead-in port with putty etc. Any dew, moisture, insects entering the unit may cause an electric shock or a malfunction. Do not install in any place at a temperature of more than 40°C [104°F] or less than 0°C [32°F] or exposed to direct sunlight.	Doing so may cause an electr Do not press any control bu Doing so may cause an electr	ic shock or a malfunction. Itton using a sharp object. ic shock or a malfunction.		SELECTION")	(2) Use of clock setting ("CLC(3) Timer function setting ("W(4) Contact number setting for
Doing so may cause deformation or malfunction. 2 Confirming the Supplied Parts Confirm that the box includes the following parts, in addition to this 1. Remote controller (cover, body)	S installation manual:			4. Display change ("DISP MODE SETTING")	 (5) Temp off set setting ("TEMP OFF SET FUNCT (1) Temperature display °C/°F ("TEMP MODE °C/°F") (2) Water temperature display ("WATER TEMP DISP SE
 (2) Parts which must be supplied on site. Switch box for two units Thin-copper wiring pipe Lock nut and bushing Surface raceways 	500 500 500 500 500 500 500 500	two units	30 [1-3/16] 30 [1-3/16] 30 [1-3/16]	Seconds.) * The displa selection, * The displa selection, Press (°Change Language (°CHANGE LANGUAGE") Press the VÊ button. Function limit (°FUNCTION SELECTION") Press the Press the Pr	ay cannot be changed during the ur the test run and the self diagnosis. <u>Remote Cor</u> ss the (6) button. <u>Selection Markowskip Self</u> <u>V</u> Operation function limit se <u>V</u> Operation mode skip sett <u>Temperature range limit se</u>
Seal the remote controller cord with putty in order to prevent the When using the switch box • When installing on the switch box, seal the connections between the switch box and wiring pipe with putty. Wiring pipe Wiring pipe	(Unit: mm [e possible entry of dew, water ing directly on the wall hing a hole using a drill for the r back of the remote controller), s ing the cord via the portion cut of h putty. Ing the remote controller cord fro	in]) droplets, cockroaches remote controller cord (or real the hole with putty. off from the upper cover, om back of the controller,	, other insects, etc.	Better Press the Press the button. Better Press the press the press the press the selection ("MODE SELECTION") Press the E button.	the ton. Contact number setting ("CLC Use of clock setting ("CLC Timer function setting ("W Contact number setting for V Temp off set setting ("TEM
Bushing Remote control Cord	king cord m back of	here	Use surface raceways	Press Display change ("DISP MODE SETTING") [Detailed setting]	the ton. Water temperature display °C/°F Water temperature display sett
Remove the remote controller cover. Insert a minus screwdriver into one of the open slots and move	the screwdriver in the arrow dir	For taking cord out remote controller rection.	of top of	 The language that appear Press the [① MENU 1 English (GB), ② Ger (RU), ⑤ Italian (I), ⑥ Fr [4] -2, Function limit 	ars on the dot display can be s I button to change the languag man (D), ③ Spanish (E), ④ Ro rench (F), ⑦ Swedish
CAUTION Do not turn the screwdriver in the slot. Doing so means	hay damage the slot.			 (1) Operation function lir To switch the setting (1) no1: Operation lock the [(1) ON/OFI (2) no2: Operation lock (3) OFF (Initial setting va * To make the operation is necessary to press to 	nit setting (operation lock) press the [ON/OFF] buttor setting is made on all buttons of F] button. setting is made on all buttons. alue) : Operation lock setting is lock setting valid on the norma buttons (Press and hold down t
Install the lower case on the switch box or directly on the wall. When using the switch box Switch box for two units	cross recessed pan	When installing direct	ly on the wall	[CIR.WATER] and [① two seconds.) on the n made.	UN/UFF] buttons at the same ormal screen after the above s
Seal the remote control cord lead-in hole with putty. (See 2 above)	ead screw	(See 5 in Dealer of the second	n the next page) Wood screw	 After setting is changed, within the changed rang To switch the followin button. Heating mode Heating ECO mode Hot Water mode 	the operation mode can be ch e. Ig settings, press the [① ON/C : Sets the use or non-use Heating mode. : Sets the use or non-use Heating ECO mode. : Sets the use or non-use Water mode.
				 ④ Anti-freeze mode ⑤ Cooling mode ⑥ OFF (Initial setting van the setting, other the Heating Heating Free Heating Free Heating Heating Free Heating Heating Free Heating Free Heating Free Heating Heating Free Heating Fr	: Sets the use or non-use Anti-freeze mode. : Sets the use or non-use Cooling mode. alue) : Operation mode skip is executed. If than OFF, is made, the skip s CO. Hot Water Anti-freeze an



 (3) Timer function setting (5) Temp off set setting (5) Temp off set setting (6) To switch the setting, press the [(2) ON/OFF] button (Choose one of [• To switch the following settings, press the [(2) ON/OFF] button. 	7 Self Check
the followings.). ① ON : The setback amount setting is displayed under the water temperature initial setting mode. ① WEEKLY TIMER (Initial setting value): . ② OFF : The setback amount setting is not displayed under the water	Retrieve the error history of each unit using the remote controller.
② AUTO OFF TIMER : The auto off timer can be used. temperature initial setting mode. ③ SIMPLE TIMER : The simple timer can be used. temperature initial setting mode. ④ TIMER MODE OFF : The timer mode cannot be used. [4] -4. Display change setting	
 * When the use of clock setting is OFF, the "WEEKLY TIMER" cannot be used. (4) Contact number setting for error situation (1) Temperature display °C/°F setting • To switch the setting, press the [② ON/OFF] button. ① °C: The temperature unit °C is used. 	
 To switch the setting, press the [① ON/OFF] button. ① CALL OFF The set contact numbers are not displayed in case of error. ② °F: The temperature unit °F is used. (<u>2</u>) <u>Water temperature display setting</u> To switch the setting, press the [② ON/OFF] button. 	
 (2) CALL **** **** * The set contact numbers are displayed in case of error. CALL_ : The contact number can be set when the (1) ON : The water temperature is displayed. (2) OFF : The water temperature is not displayed. 	
display is as shown on the left. • Setting the contact numbers To set the contact numbers, follow the following procedures.	
Move the flashing cursor to set numbers. Press the [\mathfrak{F} 1EMP. (\lor) or (\bigtriangleup)] button to move the cursor to the right (left). Press the [\mathfrak{C} CLOCK (\bigtriangledown) or (\bigtriangleup)] button to set the numbers.	 ① Switch to the self check mode. ② Set the address or refrigerant address No. you want to self check. When the [CHECK] ⊕ button is pressed twice successively within ② Set the address or refrigerant address No. you want to self check. When the [I TEMP. (▽) or (△)] ⓒ buttons are pressed, the
6 Initial Setting The initial operation mode can be set. Change the setting when needed.	three seconds, the display shown below appears. address decreases and increases between 001 and 127 or 00 and 15. Set it to the address No. or refrigerant address No. you want to self check.
(1) Water temperature initial setting mode ① Stop the unit by pressing the [① ON/OFF] ① button. ② To enter the water temperature initial setting, press and hold down the [INITIAL	
A MITSUBISHI ELECTRIC Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp Water temp <tr< td=""><td>Self check address or self check refrigerant address Approximately three seconds after the change operation, the self check refrigerant address changes from flashing to a steady light and</td></tr<>	Self check address or self check refrigerant address Approximately three seconds after the change operation, the self check refrigerant address changes from flashing to a steady light and
* Depending on the model of the unit to connect, the water temperature initial setting may the model of the unit to connect, the water temperature initial setting may not be possible. In such case, the screen transitions to the unit stop screen after the display of the error.	3 Self check result display <error history=""> (For the contents of the error code, refer to the units installation manual or service handbook.)</error>
CONTRACT ON MARTINE CONVERT VINITIAL SETTINGA OWNARTER COLOCK CALEAR CA	
	Error code 4 digits or error code 2 digits When there is no error bistory When opposite side does not exists
1. Water temperature initial setting 2. Water temperature initial setting 3. Water temperature initial setting Water Temp Heating Water Temp Heating ECO No.1 Water Temp Heating ECO No.2	Error history reset
Image: State temperature display Image: State temperature display	The error history is displayed in ③ Self check results display.
Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display Image: comparison display	When the [\bigcirc ON/OFF] $\textcircled{0}$ button is pressed twice successively within three accords the coldered contribution of the error history was reset, the display shown below appears.
temperature setting of Heating ECO No.2 must be higher than that of	within three seconds, the self check address or refrigerant address flashes. When error history reset failed, the error contents are displayed again. Image: SELF CHECK Image: SELF CHECK
Number of the entropy of the entrop	
	⑤ Self check reset There are the following two ways of resetting self check. Press the ICHECK1 (R) button twice successively within three seconds → Resets self check and returns to the state before self check.
Image: Constraint of the second secon	Press the [\textcircled{O} ON/OFF] \textcircled{O} button \rightarrow Self check resets and units stop. (When operation is prohibited, this operation is ineffective.)
T 6. Water temperature initial setting 5. Water temperature initial setting Temp Offset Heating Water Temp Cooling Water Temp Anti-freeze	
Image: Second	
* The available settings differ depending on the model of the unit to connect.	7
1. Water Temp Heating : Sets the water temperature to ①°C when starting operation in Heating mode. 2. Water Temp Heating ECO No.1 : Sets the water temperature to ②°C for an outside air temperature of ③°C when operating in Heating ECO mode.	8 Remote Controller Check When the unit cannot be controlled from the remote controller, use this function to check the remote controller.
3. Water Temp Heating ECO No.2 : Sets the water temperature to ④°C for an outside air temperature of ⑤°C when operating in Heating ECO mode. 4. Water Temp Hot Water : Sets the water temperature to ⑥°C when starting operation in Hot Water mode. 5. Water Temp Anti-freeze : Sets the water temperature to ⑦°C when starting operation in Anti-freeze mode.	
6. Water Temp Cooling : Sets the water temperature to B°C when starting operation in Cooling mode. 7. Temp Offset Heating : Sets the offset amount of the Heating system to B°C.	
8. Temp Offset Cooling : Sets the offset amount of the Cooling system to ™°C. ④ Switch the outside air temperature or water temperature setting by pressing the [② ON/OFF] ^① button.	
⑤ To set the water temperature, outside air temperature, or offset amount, press the [
Water Temp Hot Water (Heating, Heating ECO) : 20°C ~ 90°C (68°F ~ 194°F) *1 Water Temp Anti-freeze : 5°C ~ 45°C (41°F ~ 113°F) *1 Water Temp Cooling : 5°C ~ 30°C (41°F ~ 87°F) *1	
Outside air temperature: -20° C -40° C $(-4^{\circ}$ F -104° F)Temp Offset Heating (Cooling): -15° C -15° C 59° F)	
*1 The adjustment range differs depending on the model of the unit to connect. (a) To cancel the water temperature initial setting, press the [INITIAL SETTING (∇)] (1) button for three seconds or longer.	When normark goes off.
Alternatively, press the [① ON/OFF] ① button.	unit.
(1) Stop the unit by pressing the [(1) ON/OFF] (1) button. (2) To enter the interface (I/F) option setting, press the [INITIAL SETTING (\triangle)] (6) button for three seconds or longer, (1, or 2, will be displayed.)	(2) Switch to the remote controller check mode. When the [CHECK] (a) button is held down for five seconds or longer, the display shown below appears. When the [CIR.WATER] (a) button is pressed, remote controller check begins.
 * Depending on the model of the unit to connect, the "Interface (I/F) Option Setting mode" may not be available. In such case, the screen transitions to the unit stop screen after the display of the error. 3 To select an interface (I/F) option setting 1. or 2., press the [Mode (Back)] (E) button. 	
1. Interface (I/F) option setting Heating system 2. Interface (I/F) option setting Cooling system	③ Remote controller check result
	When remote controller is normal When remote controller is faulty (Error display 1) "NG" flashes → Remote controller send/receive circuit abnormal
value value value value display display display * The available settings differ depending on the model of the unit to connect	
Lower limit value setting: Defines the "4 mA/0 V" input as the "water temperature 1°C" of the Heating, Hot Water, and Anti- freeze modes.	Since there is no problem at the remote controller, check for other causes.
Upper limit value setting: Defines the "20 mA/10 V" input as the "water temperature 2°C" of the Heating, Hot Water, and Anti-freeze modes.	When the problem is other than the checked remote controller $(\text{Error display 3}) \text{``ERC''} and data error count are displayed as Data error er$
Cooling system Upper limit value setting: Defines the "20 mA/10 V" input as the "water temperature ④°C" of the Cooling mode. To switch the upper/lower limit value display, press the [② ON/OFF] ⑨ button.	
 ⑤ To set the upper/lower limit value, press the [I TEMP. (♥) or (△)] ⁽F) (setting temperature) button. The adjustment range for both the upper and lower limit values is -20°C (-4°F) to 90°C (194°F). 	There is noise on the transmission line, or the unit or another remote
⑥ To cancel the interface (I/F) option setting, press the [INITIAL SETTING (△)] ⑧ button for three seconds or longer. Alternatively, press the [① ON/OFF] ① button.	controller is faulty. Check the transmission line and the other remote controllers. controllers. controllers. controllers. controllers.
	C When data error count is 02 Remote controller send data Send data on transmission line
	Remote controller check reset When the [CHECK] (H) button is held down for five seconds or longer, remote controller check resets and the "PLEASE WAIT" and RUN lamp flash. Approximately 30 seconds later, the remote controller returns to the state before remote controller check.
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