Photo



Descriptions

Enables the use of wireless remote controller for ceiling suspended models.

Applicable Models

PCA-M • KA series

Specifications

Operation indication	During operation: LED (green) is lit, Alarm: LED (green) flashes.	
Emergency operation	Cooler/heater button (start/stop) is provided.	
Number of units controlled	Max. 16 refrigerant systems per group (One or more wireless light receivers must be installed for each refrigerant system.)	
Adapter wiring	9-wire cord (standard accessory) with connector is connected to the connector (CN90) on the indoor unit control board.	
Light receiver range	7m or less, at within 45 degrees to the front of receiver (the range varies with conditions)	
Operating conditions	Temperature: 0 to 40 °C , Humidity: 30 to 90% (no condensation)	
Exterior	White gray (Munsell 4.48Y 7.92/0.66), ABS resin	
Installation method	Attached to the brand label case of indoor unit.	

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Dimensions

Unit : mm





How to Use / How to Insta

1 Making Sure of Components)

Make sure that the following components, along with this manual, are packed in the box.

Component	Q'ty
Wireless remote controller receiver	1
Wireless remote controller	1
Remote control holder	1
"AAA" LR03 alkaline batteries	2
4.1×16 wood screws	2
Cord retaining clips	2
Connection cord fixing seal (12×30 size)	1

(2 How to Install) * Be sure to turn the power off before installing.

0 Removing the intake grille and the right side panel

- Slide the catch holding the intake grille backwards to open the grille. Remove the screw holding the side panel,
- and then slide the side panel forward to remove it.







Remove the screw holding the side panel

② Removing the existing brand label case

• Remove the brand label case (name plate with MITSUBISHI ELECTRIC) from the bottom right of the unit. If it is difficult to remove the case, use a flat-blade screwdriver, etc., taking care not to damage the panel.



③ Installing to the indoor unit

• Pass the receiver board connector through the right side of the square hole to which the brand label case was attached and then pull the connector and cord through the slit in the right side of the bottom panel.

· Fit the receiver into the square hole where the brand label case was attached.



Retaining clip



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Clips on the celling side • Pass the lead wire for receiver through the retaining clips. • Fix the lead wire for receiver with the clips on the celling side of the unit. Retaining clip Retaining clip • Removing the beam and the electrical box cover • Remove the beam. • Loosen the two screws at the bottom of the electrical box cover, and then slide the cover to the left to remove it. • Pull down the electrical box. Also on the f Electrical box fixing screw opposite side ⁴ Electrical box cover fixing screw

6 Connecting the receiver board connector to the control circuit board

- Pass the cord through the bush at the top right of the electrical box.
- Connect the connector to CN90 on the right of the control board.
- If the cord is loose, bundle it using the clamps under the above bush.



- Bush



Beam

Electrical box cover

* The positions of the connectors may be different according to the model. Please refer to the wiring diagram to confirm the positions of the connectors.

⑦ Reinstalling the removed components

• Reinstall the removed components in reverse order. (The brand label case is not needed.)

<u>⑧ Remote control holder</u>

• To install the wireless remote controller on a wall, first attach the remote control holder to a wall.



Model Select 3

This remote controller needs model number setting before use. Set the model number in the following order. Without setting the air conditioner will not work property. (The factory setting of model number is "001".)

- - ① Insert batteries.
 - ⁽²⁾ Press the SET button with something sharp at the end. MODE SELECT blinks and Model No. is lighted.
 - ③ Press the temp 🕐 🕥 button to set the Model Number.
 - ④ Press the SET button with something sharp at the end.

MODE SELECT and Model No. are lighted for 3 seconds, then turned off.

Indoor Unit Model	(H/P)/(C/O)	Model No.
	Outdoor Heat pump	001
FCA-WINKA	Outdoor Cooling only	033



Pair Number Setting 4

- This is the setting to specify the unit to operate with the wireless remote controller.
 Make setting for J41, J42 (Jumper wire) of indoor controller board and the pair number of wireless remote controller.
 The pair number setting is available with the 4 patterns as shown in the following table. Make setting for the pair number (J41, J42) of indoor controller board and the pair number of wireless remote controller which is used as shown in the following table. *The initial setting is Pair No. "0".
 - ① Press the SET button with something sharp at the end.
 - Start this operation from the status of remote controller display turned off.
 - MODEL SELECT blinks and Model No. is lighted.
 - ② Press the min button twice continuously. Pair No. "0" blinks.
 - ③ Press the temp () () button to set the pair number you want to set.
 - ④ Press the SET button with something sharp at the end.
 - Set pair number is lighted for 3 seconds then turned off.

A Pair No. of wireless remote controller	Indoor PC board
0	Initial setting
1	Cut J41
2	Cut J42
3~0	Cut I/1 I/2



CN90



The positions of the connectors may be different according to the model. Please refer to the wiring diagram to confirm the positions of the connectors.



Measure an impedance between the power supply terminal block on the outdoor unit and the ground with a 500V Megger and check that it is equal to or greater than 1.0 $\mbox{M}\Omega$

- ① Turn on the main power to the unit.
- ② Press the button twice continuously.
 - (Start this operation from the status of remote controller display turned off.) A TEST RUN and current operation mode are displayed.
- ③ Press the _____ (◊◊♫ ↔◊) button to activate COOL ♀ mode, then check whether cool air is blown out from the unit.
- ④ Press the ^{MODE} (♥◊₲₲ ♦०) button to activate HEATO mode, then check whether warm air is blown out from the unit. (only H/P model)
- I Press the s button and check whether strong air is blown out from the unit.
- 6 Press the $\overbrace{\texttt{K}}^{\texttt{VANE}}$ button and check whether the auto vane operates properly.
- ⑦ Press the ON/OFF button to stop the test run.
- NOTE : Point the remote controller towards the indoor unit receiver while following steps ② to ⑦. It is not possible to run in FAN, DRY or AUTO mode.

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6 **Function Selection**



NOTE : Whenever changes are made to the function settings after construction or maintenance, be sure to record the added functions with an "O", in the "Check" column provided on the chart.

Other function selections Now that you know how to change LOSSANY connectivity setting, there are several other settings that can be changed as well. The following table lists the various settings that can be changed through the remote controller and the default settings.

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Function	Settings	PCA-M·KA
Power failure	Not available	*1
automatic recovery	Available	*1
Indoor temperature	Indoor unit operating average	0
detecting	Set by indoor unit's remote controller	
_	Remote controller's internal sensor	
LOSSNAY connectivity	Not supported	0
	Supported (indoor unit is not equipped with outdoor-air intake)	
	Not supported (indoor unit is not equipped with outdoor-air intake)	
Filter sign	100Hr	
_	2500Hr	0
	No filter sign indicator	
Fan speed	Quiet	
	Standard	0
	High ceiling	
Up/down vane setting	No vanes	
-	Equipped with vanes (No.1 set)	0
	Equipped with vanes (No.2 set)	

*1 Power failure automatic recovery initial setting depends on the connecting outdoor unit.

Things to remember when entering function selections: The basic procedure for entering function selections is the same as described for switching between LOSSNAY connectivity. However, there are some differences at step ⁽²⁾ for selecting the unit number, step ⁽³⁾ for selecting the mode number and

The following Tables 4 and 5 list the various function settings, mode numbers and setting numbers. Table 4 details the function of the entire refrigerant system while Table 5 shows the function that can be set for the indoor unit.

Table 4. Itemized functions of the entire refrigerant system (select unit number 00)

Mode	Settings	Mode No.	Setting No.	Check	Remarks
Power failure	Not available		1		
automatic recovery	Available (Approximately 4-minutes wait-period after power	01	0		Approximately 4-minutes wait-
,	is restored.)		2		period after power is restored.
Indoor temperature	Indoor unit operating average		1		
detecting	Set by indoor unit's remote controller	02	2		
, , , , , , , , , , , , , , , , , , ,	Remote controller's internal sensor		3		
LOSSNAY	Not supported		1		
connectivity	Supported (indoor unit is not equipped with outdoor-air intake)	03	2		
, i i i i i i i i i i i i i i i i i i i	Not supported (indoor unit is not equipped with outdoor-air intake)		3		

Table 5. Itemized functions of the indoor unit (select unit numbers 01 to 04 or 07)

Mode	Settings	Mode No.	Setting No.	Check	Remarks
Filter sign	100Hr		1		
U U	2500Hr	07	2		
	No filter sign indicator		3		
Fan speed	Quiet		1		
	standard	08	2		
	High ceiling		3		
Up/down vane	No vanes		1		
settina	Equipped with vanes (No.1 set)	11	2		
0	Equipped with vanes (No.2 set)		3		

② Setting the unit numbers Set "00" as the unit number when setting function from Table 4.
When setting function from Table 5.
When setting function for an indoor unit in an independent system, set the unit number to 01.
When setting function for a simultaneous-Twin Triple quadruple indoor unit system, assign unit numbers from 01 to 04 to each independent.

When setting function for a simultaneous-rivin triple quadruple indoor unit system, assign unit numbers from 0 to 0 each indoor unit.
 When setting the same functions for an entire simultaneous Twin Triple quadruple-indoor unit system, assign "07" as the unit number.
 Selecting the mode number Select from Table 4 and Table 5.

④ Selecting the setting number.

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(7 Self-Check

- ① Turn on the main power to the unit.
 ② Press the button twice continuously. (Start this operation from the status of remote controller display turned off.) A CHECK begins to light.
 - B "00" begins to blink.

③ While pointing the remote controller toward the unit's receiver, press the button. The check code will be indicated by the number of times that the buzzer sounds from the receiver section and the number of blinks of the operation lamp.

④ Press the ON/OFF button to stop the self-check.

• Refer to the following tables for details on the check codes.





② Check code (Mr.Slim model) [Output pattern A] Errors detected by indoor unit

Wireless remote controller	Wired remote controller		
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code	Symptom	Remarks
1	P1	Intake sensor error	
2	P2, P9	Pipe (Liquid or 2-phase pipe) sensor error	
3	E6,E7	Indoor/outdoor unit communication error	
4	P4	Drain sensor error/Float switch connector open	
5	P5	Drain pump error	
6	P6	Freezing/Overheating safeguard operation	
7	EE	Communication error between indoor and outdoor units	
8	P8	Pipe temperature error	
9	E4	Remote controller signal receiving error	
10	-	-	
11	-	-	
12	Fb	ndoor unit control system error (memory error, etc.)	
No sound	E0, E3	Remote controller transmission error	
No sound	E1, E2	Remote controller control board error	
No sound		No corresponding	

INDOOR UNIT

[Output pattern B] Errors detected by unit other than indoor unit (outdoor unit, etc.)

Wireless remote controller	Wired remote controller		
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code	Symptom	Remarks
1	E9	Indoor/outdoor unit communication error (Transmitting error) (Outdoor unit)	
2	UP	Compressor overcurrent interruption	
3	U3,U4	Open/short of outdoor unit thermistors	1
4	UF	Compressor overcurrent interruption (When compressor locked)	
5	U2	Abnormal high discharging temperature/ insufficient refrigerant	For details, check
6	U1,Ud	Abnormal high pressure (63H worked)/Overheating protection operation	the LED display of the outdoor
7	U5	Abnormal temperature of heat sink	controller board.
8	U8	- (Outdoor unit error)	
9	U6	Compressor overcurrent interruption/Abnormal of power module	
10	U7	Abnormality of super heat due to low discharge temperature	
11	U9,UH	Abnormality such as overvoltage or voltage shortage and abnormal synchronous signal to main circuit/Current sensor error	
12	-	-	
13	_	-	
14	Others	Other errors (Refer to the technical manual for the outdoor unit)	

Other errors (Refer to the technical manual for the outdoor unit.)

14 Others Tother ends (Neter to the continuent interaction the outcost, end) f
 *1 If the beeper does not sound again after the initial 2 beeps to confirm the self-check start signal was received and the OPERATION INDICATOR lamp does not come on, there are no error records.
 *2 If the beeper sounds 3 times continuously "beep, beep, beep, beep (0.4 + 0.4 + 0.4 sec.)" after the initial 2 beeps to confirm the self-check start signal was received, the specified refrigerant address is incorrect.

On wireless remote controller
 The continuous buzzer sounds from receiving section of indoor unit.

Blink of operation lamp

On wired remote controller Check code display in the LCD.

③ Check code (CITY MULTI model)
 [Output pattern A] Errors detected by indoor unit or LOSSNAY unit
 [Output pattern B] Errors detected by unit other than indoor unit (outdoor unit, etc.)

Wireless remote controller	Wired remote controller	
Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times)	Check code	Remarks
1	1000 ~ 1999	
2	2000 ~ 2999	
3	3000 ~ 3999	
4	4000 ~ 4999	
5	5000 ~ 5999	
6	6000 ~ 6999	
7	7000 ~ 7999	
8	0000 ~ 0999	
9	8000 over	

*1 Refer to service handbook of outdoor unit for the detail.

*2 If the beeper does not sound again after the initial 2 beeps to confirm the self-check start signal was received and the OPERATION INDICATOR lamp does not come on, there are no error records.
*3 If the beeper sounds 3 times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 sec.)" after the initial 2 beeps to confirm the self-check start signal was received, the specified address is incorrect.

On wireless remote controller The continuous buzzer sounds from receiving section of indoor unit.

Blink of operation lamp

On wired remote controller Check code display in the LCD.

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