Changes for the Better



CITY MULTI and Mr.SLIM Air Conditioners

MA Remote Controller PAR-21MAA

TECHNICAL MANUAL





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I. Advantage of New MA Remote Controller

1. Weekly Timer

The built-in weekly timer enables you not only to make on/off settings but also temperature settings. Up to 8 patterns can be set for each day of the week.



Setting example (Restaurant in summer)

Economical operation according to air conditioner use



2. Easy Maintenance Function (Only for PUHZ type)

Enables you to check necessary data on site, drastically reducing the time required for maintenance work.

• Information useful for maintenance can be displayed on the remote controller.

Outdoor unit information can be checked even from inside a building. Furthermore, use of maintenance stable-operation control that fixes the operating frequency, allows smooth inspection, even for inverter models.

<Display information> Outputs data for nine items.

Compressor information	Outdoor unit information	Indoor unit information
 Accumulated operating time 	 Heat exchanger temperature 	 Heat exchanger temperature
 Number of ON/OFF times 	 Discharge temperature 	 Room temperature
 Operating current 	Outside air temperature	 Filter operating time

The contact telephone number to be called when an error occurs is displayed automatically.

This helps smooth contact with appropriate personnel when an error occurs. The contact telephone number of the maintenance company to be called when an error occurs can be registered in advance. When an error occurs, the contact telephone number will automatically appear, allowing you to call without difficulty. Displays the contact number in case of abnormality.





CALL·XXX XXXXXXXX Telephone number registered in advance

3. New Display

Various information is displayed and conveyed clearly, enabling more accurate operation of the air conditioner.

3.1 Dot Liquid Crystal Display (LCD)

The dot liquid crystal display enables quick understanding of the operation state.







Display example [Cool mode]

[English]	[German]	[Spanish]	[Russian]
	Kikiihlen	∜ ¥FRÍO	ФХолод
[Itarian]	[Chinese]	[French]	[Japanese]
	《礼》》	≰©≱FROID	〇秋冷房

3.2 Multi-language Display

In addition to English, contents can be displayed in 7 other languages. This function makes the remote controller very useful in facilities where foreigners are present.

4. The Other Functions

4.1 Temperature Range Limit Setting

Enables operation of air conditioner at comfortable temperatures at all times.

Upper and lower limits can be established for the temperature setting. This prevents overcooling or overheating, thereby contributing to energy saving.

4.2 Auto Off Timer

Shuts off wasteful air conditioner operations.

Operation is stopped automatically when the preset time elapses following the start of operation, thereby preventing wasteful operations.

The time can be set from 30 minutes to 4 hours in 30-minute increments.

4.3 Simple Operation Lock

Prevents others from changing settings without permission.

This lets you disable all the buttons or all the buttons except for the [ON/OFF] button, preventing mischief and incorrect operations.

I. New Functions

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			le when nect		
Function	Description	PUHZ series	PU(H) SUZ MXZ series	Go to page	
Easy maintenance function	 Displays information necessary for maintenance. Below information for easy maintenance of air-conditioner can be displayed. Compressor Accumulated operating time Number of ON/OFF times Operating current (A) Outdoor unit Heat exchanger temperature (°C) Discharge temperature (°C) Outside air temperature (°C) Indoor unit Intake air temperature (°C) Heat exchanger temperature (°C) Filter operating time (hours) The operation state of inverter models can be monitored using the state of the state of	0	×	6	
	maintenance stable-operation control (fixed frequency). Information necessary for maintenance can be displayed on the	-			
Operation data monitor function	remote controller.			48	
Error code monitor function	Error code is displayed in the service inspection monitor.	0	0	44	
Contact number display	Displays the contact telephone number to be called when an error occurs.	0	0	33	
Multi language display	 In addition to English, contents can be displayed in 7 other lan- guages. English, German, Spanish, Russian, Italian, Chinese, French, Japanese 	0	0	12	
Temperature display (°C/°F) setting	Enables you to set the unit (°C/°F) in which temperatures are to be displayed.	0	0	35	
Room temperature display setting	Enables you to set whether to show or hide the indoor (room) temperature.	0	0	36	
Auto heat/cool display setting	Enables you to set whether to display or hide "COOL"/"HEAT" in auto mode.	0	0	37	
Weekly schedule timer	Provides a built-in weekly timer that allows you to make on/off and temperature settings. Up to 8 patterns can be set for each day of the week.	0	0	23	
"Operation limit function setting (Operation lock)"	Lets you disable all the buttons or all the buttons except for the [ON/OFF] button, preventing mischief and incorrect operations.	0	0	14	
Temperature range limit function	Enables you to establish upper and lower limits for the tempera- ture setting. This prevents overcooling or overheating, thereby contributing to energy saving.	0	0	18	
Clock function setting	Enables you to set whether to use the clock function.		0	21	
Auto off timer	Stops operation when the preset time elapses following the start of operation.The time can be set from 30 minutes to 4 hours in 30-minute increments.By default, the weekly timer is selected.To switch to the auto off timer, select it using the remote controller's function selection.	0	0	26	
Simple timer	Enables you to set on/off settings in 1-hour increments within 72 hours.	0	0	29	
Remote controller main/sub setting	Enables you to set the remote controller as the main or sub.	0	0	20	

I. Display Section



2. Operation Section



Note:

 If you press a button for a feature that is not installed at the indoor unit, the remote controller will display the "Not Available" message.

If you are using the remote controller to drive multiple indoor units, this message will appear only if the feature is not present at every unit connected.

IV. Easy Maintenance Function (For Mr.SLIM PUHZ series)

- •Reduces maintenance work drastically.
- •Enables you to check operation data of the indoor and outdoor units by remote controller.
- Furthermore, use of maintenance stable-operation control that fixes the operating frequency, allows smooth inspection, even for inverter models.



* The filter operating time is the time that has elapsed since the filter was reset.

1. Maintenance Mode Operating Method

* If you are going to use the "2. Guide for Operation Condition ", set the airflow to "High" before activating maintenance mode.

• Switching to maintenance mode

1

2

3

Maintenance mode can be activated either when the air conditioner is operated or stopped.

It cannot be activated during test run.

* Maintenance information can be viewed even if the air conditioner is stopped.



Indoor unit information

(1) Press the **TEST** button for 3 seconds to switch to maintenance mode.

[Display (A)] MAINTENANCE

If stable operation is unnecessary or if you want to check the data with the air conditioner stopped, skip to step (4).

• Fixed Hz operation

The operating frequency can be fixed to stabilize operation of inverter model. If the air conditioner is currently stopped, start it by this operation.

(2) Press the MODE button to select the desired operation mode.



Remote controller button information

Data measurement

When the operation is stabilized, measure operation data as explained below.

 \rightarrow (4) Press the [TEMP] buttons ((\bigtriangledown) and (\triangle)) to select the desired refrigerant address.



Refrigerant

Outdoor

unit

Indoor unit

01

address

15

2. Guide for Operation Condition

Inspection item					Re	sult	
~	con-		Breaker	Good		Retigh	itened
lddr	Loose c nection	Terminal block	Outdoor Unit	Good		Retigh	itened
Power supply	Loose nectior		Indoor Unit	Good		Retigh	itened
owe		(Insulation resista	ance)				MΩ
ď		(Voltage)					V
Com		 Accumulated o 	perating time				Time
		2 Number of ON	OFF times				Times
pres	SOI	③ Current					А
	le	④ Refrigerant/heat exc	COOL	°C	HEAT	°C	
÷	eratu	5 Refrigerant/discha	COOL	°C	HEAT	°C	
U I	Temperature	6 Air/outside air t	COOL	°C	HEAT	°C	
Outdoor Unit		(Air/discharge t	COOL	°C	HEAT	°C	
Dutd	Cleanli- ness	Appearance	Good		Cleaning	required	
0		Heat exchanger	Good		Cleaning	required	
		Sound/vibration	None		Pres	sent	
	Ire	⑦ Air/Room air te	mperature	COOL	°C	HEAT	°C
	eratu	(Air/discharge t	emperature)	COOL	°C	HEAT	°C
	Temperature	(8) Refrigerant/heat exc	changer temperature	COOL	°C	HEAT	°C
Unit	Te	9 Filter operating	time*				Time
Indoor Unit		Decorative panel		Good		Cleaning	required
pdq	less	Filter		Good		Cleaning	required
	ullin	Fan		Good		Cleaning	required
	Cleanliness	Heat exchanger		Good		Cleaning	required
		Sound/vibration		None		Pres	sent

* The filter operating time is the time that has elapsed since the filter was reset.

Check Points

Enter the temperature differences between (5), (4), (7) and (8) into the graph given below.

Operation state is determined according to the plotted areas on the graph.

For data measurements, set the fan speed to "Hi" before activating maintenance mode.

С	lassification	ltem	Result			
	Inspection	Is "000" displayed stably in Display \textcircled{D} on the remote controller?	Stable	Unstable		
Cool	Temperature difference	(⑤ Discharge temperature) - (④ Outdoor heat exchanger temperature)	or °C			
		(⑦ Indoor room temperature) - (⑧ Indoor heat exchanger temperature)				
	Inspection	Is "000" displayed stably in Display \textcircled{D} on the remote controller?	Stable	Unstable		
Heat	Temperature difference	(⑤ Discharge temperature) - (⑧ Indoor heat exchanger temperature)	•			
		(⑧ Indoor heat exchanger temperature) - (⑦ Indoor room temperature)		°C		

* Fixed Hz operation may not be possible under the following temperature ranges.

- A)In cool mode, outdoor intake air temperature is 40 °C or higher or indoor room temperature is 23 °C or lower
- B)In heat mode, outdoor intake air temperature is 20 °C or higher or indoor room temperature is 25 °C or lower
- * If the air conditioner is operated at a temperature range other than the ones above but operation is not stabilized after 30 minutes or more have elapsed, carry out inspection.
- * In heat mode, the operation state may vary due to frost forming on the outdoor heat exchanger.





Heat mode

	0	С									
		5	Inspection C								
ture	4	0	Filt	Filter inspection							
oera	3	5									
, te	е 3	0									
ger t	ratu	25		No	orm	al					
char	adu 2	20									
at ex	1 te E	5						In	spe	ctio	n B
ndoor heat exchanger temperature)	001 10	0	In	spe	ctic	on A					
	Indoor I	5									
99	Ð		10	20	30	40	50	60	70	80	C

[5] Discharge temperature] - [4] Outdoor heat exchanger temperature] [5] Discharge temperature] - [8] Indoor heat exchanger temperature]

Area	Check item	Judg	jment
Aica	Check Rell	Cool	Heat
Normal	Normal operation state	Ì	
Filter inspection	Filter may be clogged. *1		
Inspection A	Performance has dropped. Detailed in- spection is necessary.		
Inspection B	Refrigerant amount is dropping.		
Inspection C	Filter or indoor heat exchanger may be clogged.		

* The above judgement is just guide based on Japanese standard conditions.

It may be changed depending on the indoor and outdoor temperature.

*1 If may be judged as "Filter inspection" due to the outdoor and indoor temperature, even though it is not clogged.

V. How to Select Functions of remote controller 1. Function Items

The setting of the following remote controller functions can be changed using the remote controller function selection mode. Change the setting when needed.

Item 1	Item 2	Item 3 (Setting content)
1.Change Language ("CHANGE LANGUAGE")	Language setting to display	Display in multiple languages is possible.
2.Function limit	(1) Operation function limit setting (operation lock) ("LOCKING FUNCTION")	Setting the range of operation limit (operation lock)
("FUNCTION SELECTION")	(2) Use of automatic mode setting ("SELECT AUTO MODE")	 Setting the use or non-use of "automatic" operation mode
	(3) Temperature range limit setting ("LIMIT TEMP FUNCTION")	 Setting the temperature adjustable range (maximum, minimum)
3.Mode selection	(1) Remote controller main/sub setting ("CONTROLLER MAIN/SUB")	 Selecting main or sub remote controller
("MODE SELECTION")		* When 2 remote controllers are connected to 1 group, 1 controller must be set to sub.
	(2) Use of clock setting ("CLOCK")	 Setting the use or non-use of clock function
	(3) Timer function setting ("WEEKLY TIMER")	Setting the timer type
	(4) Contact number setting for error situation ("CALL.")	Contact number display in case of error
		 Setting the telephone number
4.Display change	(1) Temperature display °C/°F setting ("TEMP MODE °C /°F")	 Setting the temperature unit (°C or °F) to display
("DISP MODE SETTING")	(2) Room temperature display setting ("ROOM TEMP DISP SELECT")	Setting the use or non-use of the display of indoor (suction) air temperature
	(3) Automatic cooling/heating display setting ("AUTO MODE DISP C/H")	 Setting the use or non-use of the display of "Cooling" or "Heating" display during operation with automatic mode

[Function selection flowchart] Refer to next page.

[1] Stop the air conditioner to start remote controller function selection mode. \rightarrow [2] Select from item1. \rightarrow [3] Select from item2. \rightarrow [4] Make the setting. (Details are specified in item3) \rightarrow [5] Setting completed. \rightarrow [6] Change the display to the normal one. (End)

[4] -1. CHANGE LANGUAGE setting The language that appears on the dot display can be selected.	[4] -3. Mode selection setting (MODE SELECTION) (1) Remote controller main/sub setting ① Main : The controller will be the main controller. ② Sub : The controller will be the sub controller. (2) CLOCK setting ② CNUE The clock of controller will be sub controller.
 (1) Operation function limit setting (operation lock)(LOCKING FUNCTION) (1) Operation function limit setting (operation lock)(LOCKING FUNCTION) (1) Operation lock setting is made on all buttons other than the [(1) ON/OFF] button. (2) no2: Operation lock setting is made on all buttons. (3) OFF (Initial setting value): Operation lock setting is not made * To make the operation lock setting valid on the normal screen, it is necessary to press buttons (Press and hold down the [FILTER] and [(1) ON/OFF] buttons at the same time for 2 seconds.) on the normal screen after the above setting is made. (2) Use of automatic mode setting When the remote controller is connected to the unit that has automatic operation mode, the following settings can be made. (1) ON (Initial setting value): The automatic mode is displayed when the operation mode is not displayed when the operation mode is not displayed when the operation mode is selected. (2) OFF (3) OFF 	 ① ON : The clock function can be used. ② OFF: The clock function cannot be used. ③ OFF: The clock function cannot be used. ③ Imer function setting ① WEEKLY TIMER (initial setting):
 button. The selected setting will blink and the temperature can be set. Settable range Cooling/Dry mode : Lower limit: 19°C ~ 30°C , 67°F~87°F Upper limit: 30°C ~ 19°C , 87°F~67°F Heating mode : Lower limit: 17°C ~ 28°C , 63°F~83°F Upper limit: 28°C ~ 17°C , 83°F~63°F Automatic mode : Lower limit: 19°C ~ 28°C , 67°F~83°F Upper limit: 28°C ~ 17°C , 83°F~63°F Automatic mode : Lower limit: 19°C ~ 28°C , 67°F~83°F 	 (3) Automatic cooling/heating display setting (AUTO MODE DISP C/H) ① ON : One of "Automatic cooling" and "Automatic heating" is displayed under the automatic mode is running. ② OFF: Only "Automatic" is displayed under the automatic mode.

2. Flowchart of Function Setting



3. Screen Structure for Function Setting

Description of each screen

- Function selection of remote controller
- Set day time
- Standard control screen
- Timer monitor screen
- Timer set up screen

- : Used to set the timer function and operation limit function, etc.
- : Used to set the current day of the week and time.
- : Used to set the air conditioner's operating state.
 - : Used to display the current settings of the timers (weekly, simple, auto off).
 - : Used to set the timers (weekly, simple, auto off).



How to change the screen display

- (a): Press the [ON/OFF] button for two seconds while holding down the [MODE] button.
- B: Press the [MENU] button.
- ©: Press the [MODE] (BACK) button.
- O: Press the [CLOCK] buttons (\bigtriangledown and \triangle).



4. Function Setting Mode

4.1 Change Language

The language that appears on the dot display can be selected.

The following languages can be selected.							
①English (GB)	②German (D)	③Spanish (E)	④Russian (RU)				
⑤Italian (I)	⑥Chinese (CH)	⑦French (F)	Image (JP)				

Changing the Display Language

Display example



(1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.

(2) Press the MODE button until CHANGE appears on the screen (at (A)).



(4) While pressing the MODE button, press the ON/OFF button for two seconds to return to normal mode. Setting is now complete.

Display example	English	German 🏹 Kijhlen	Spanish 🎇 FRÍO Russian 🖾 🎗 ОЛО/	П
	Italian	Chinese (算制) 令	French 《非ROID Japanese 《》令月	5

Multi Language Display

[Dot display table]

Selecting language		English	German	Spanish	Russian	Italian	Chinese	French	Japanese
Waiting for start-up		PLEASE WAIT	÷	←	←	÷	4	÷	←
Operation mode	Cool	©€COOL	Ö Kühlen	©FRíO	©Холоа	©COOL	◎制冷	©FROID	◎冷房
	Dry	⊖ DRY	OTrocknen		ОСушка	⊖ DRY	○除湿	○DESHU	0ドライ
	Heat	☆HEAT	☆Heizen	¤(ALOR	☆Тепло	≍HEAT	☆制热	¤(HAUD	☆暖房
	Auto	‡;‡AUTO	‡‡AUTO	∱→AUTO- ←∳MÁTICO	‡;‡Авто	‡‡AUTO	\$\$1自动	‡ ‡ AUTO	\$\$1自動
	Auto(Cool)	‡‡COOL	‡‡Kühlen	‡ ‡ FRíO	ДЗХолоа	‡‡COOL	試制冷	‡∓FROID	\$\$冷房
	Auto(Heat)	‡;‡HEAT	‡∓Heizen	‡‡(ALOR	‡ ∓ Тепло	‡;‡HEAT	⇔封制热	‡‡(HAUD	\$\$暖房
	Fan	S FAN	SSL üfter	S LACIÓN	\$68ент		\$ 送风	S UENTI LATION	\$\$送風
Ventilation		382 LATION	₩Gebläse ‱betrieb	SELACIÓN	₩Венти-		燹换气	305 VENTI LATION	382换気
	Stand by (Hot adjust)	STAND BY	STAND BY	CALENTANDO	ОБОГРЕВ: Пауза	STAND BY	准备中	PRE CHAUFFAGE	準備中
Defrost		DEFROST	Altaven	DESCONGE - LACIÓN	ОТТАИВАНИЕ	SBRINA MENTO	除霜中	DEGIVRAGE	霜取中
Set temperature		SET TEMP	TEMP einstellen	TEMP. CONSIGNA	ЦЕЛЕВАЯ Температура	IMPOSTAZIONE TEMPERTURN	设定温度	REGLAGE	設定温度
Fan speed		FAN SPEED	Lüftersesch windiskeit	VELOCIDAD VENTILADOR	СКОРОСТЬ ВЕНТИЛЯТОРА	VELOCITA' VENTILATORE	凤速	VITESSE DE VENTILATION	風速
Not use button		NOT AVAILABLE	Nicht Verfusbar	NO DISPONIBLE	НЕ АОСТУПНО	NON DISPONIBILE	无效按钮	NON DISPONIBLE	無効がり
Check (Error)		Снеск	Prüfen	COMPROBAR	Проверка	Снеск	检查	CONTROLE	点検
Test run		TEST RUN	Testbetrieb	TEST FUNCIO NAMIENTO	Тестовый Запуск	TEST RUN	试运转	TEST	試ウソテソ
Self check		SELFCHECK	selbst- diagnose	AUTO REVISIÓN	Самодиаг- Ностика	SELF CHECK	自我诊断	AUTO CONTROLE	自己リッグリ
Unit function select	ction	FUNCTION	FUNKTION SAUSWAHI	SELECCIÓN DE FUNCIÓN	Выбор Функции	SELEZIONE	功能选择	SELECTION	キノウ選択
Setting of ventilati	on	SETTING OF	Lüfterstufen Wahlen	CONFIG. VENTILACIÓN	Настройка вентустан.	IMPOSTAZIONE ARIA ESTERNA	换气设定	SELECTION	換氮定

Selecting language	English	German	Spanish	Russian	Italian	Chinese	French	Japanese
CHANGE LANGUAGE	CHANGE	←	←	←	←	←	←	←
Function selection	FUNCTION	Funktion auswahien	SELECCIÓN DE FUNCIONES	Выбор Функции	SELEZIONE	功能限制	SELECTION	もノウ制限
Operation function limit setting	LOCKING FUNCTION	Sperr - Funktion	FUNCIÓN BLOQUEADA	ФУНКЦИЯ Блокировки	BLOCCO FUNZIONI	操作限制	BLOCAGE FONCTIONS	操作段
Use of automatic mode setting	SELECT AUTO MODE	AUSWAhl AVto Betrieb	SELECCIÓN MODO AUTO	ВЫБОР Режима Авто	SELEZIONE MODO AUTO	自动模式	SELECTION DU MODE AUTO	自動調
Temperature range limit setting	LIMIT TEMP FUNCTION	Limit TemP FUNKtion	LÍMIT TEMP CONSIGNA	ОГРАНИЧЕНИЕ УСТ. ТЕМПЕРАТ	LIMITAZIONE TEMPERATURA	温度限制	LIMITATION	温度制限
Limit temperature cooling/day mode	LIMIT TEMP COOL MODE	Limit Kuhl Temp	LÍMIT TEMP Modo Frío	ОГРАНИЧЕНО ОХЛАЖАЕНИЕ	LIMITAZIONE MODO COOL	制冷范围	LIMITE TEMP MODE FROID	都冷房
Limit temperature heating mode	LIMIT TEMP HEAT MODE	Limit Heiz Temp	LÍMIT TEMP MODO CALOR	ОГРАНИЧЕН ОБОГРЕВ	LIMITAZIONE MODO HEAT	制热范围	LIMITE TEMP MODE CHAUD	都暖房
Limit temperature auto mode	LIMIT TEMP AUTO MODE	Limit AUto Temp	LÍMIT TEMP Modo Auto	ОГРАНИЧЕН РЕЖИМ АВТО	LIMITAZIONE MODO AUTO	自动范围	LIMITE TEMP MODE AUTO	襟自動
Mode selection	MODE SELECTION	Betriebsart Wahlen	SELECCIÓN DE MODO	Вывор Режима	SELEZIONE MODO	基本模式	SELECTION DU MODE	基本キノウ
Remote controller setting MAIN	CONTROLLER	Haupt controller	CONTROL PRINCIPAL	Основной Пульт	CONTROLLO	遥控 主	TELCOMMANDE MAITRE	^{班11} 重従
Remote controller setting SUB	CONTROLLER SUB	Neben controller	CONTROL SECUNDARIO	Дополните- Ланын пульт	CONTROLLO SUB	遥控 辅	TELCOMMANDE	「ロコ」主题
Use of clock setting	CLOCK	Uhr	RELOJ	Часы	OROLOGIO	时钟	AFFICHAGE HORLOGE	時計頭力
Setting the day of the week and time	TIME SET	Uhrstellen Heinstellen	CONFIG RELOJ	ЧАСЫ:УЕТ. ₩:ВВОА		时间filter	HORLOGE	トケイセッティ #:カフティ
Timer set		Zeitschaltuhr 44:einstellen	TEMPORIZA - DOR#:CONFIG	Таймер:уст. ₩÷ввод	TIMER #:ENTER	定機都E	PROG HORAIRE	タイマーセッティ 半:カクティ
Timer monitor	TIMER MONITOR	Uhrzeit Anzeise	VISUALIZAR Temporizad.	ПРОЕМОТР Таймера	VISUALIZ TIMER	定艦状态	AFFICHAGE PROG HORAIRE	917-E=9-
Weekly timer	WEEKLY TIMER	Wochenzeit Schalt Uhr	TEMPORIZA - DOR SEMANAL	НЕДЕЛЬНЫЙ ТАЙМЕР	TIMER SETTIMANALE	每周定端器	PROG HEBDO Madaire	⁹¹⁷⁻ 週間
Timer mode off	TIMER MODE OFF	Zeitschaltuhr AUS	TEMPORIZA - Dor apagado	Таймер выкл.	TIMER OFF	定擺放	PROG HORAIRE INACTIF	⁹¹⁷⁻ 無効
Auto off timer	AUTO OFF TIMER	Auto Zeit funktion aus	APAGADO Automático	АВТООТКЛЮЧ. ПО ТАЙМЕРУ	AUTO OFF TIMER	解除定时	PROG HORAIRE ARRET AUTO	タイマ-ケシウスレ 赤ウシ
Simple timer	SIMPLE	Einfache Zeitfunktion	TEMPORIZA - DOR SIMPLE	ПРОСТОЙ ТАЙМЕР	TIMER SEMPLIFICATO	简易定据	PROG HORAIRE SEMPLIFIE	⁹¹⁷⁻ カンイ
Contact number setting of error situation	CALL	←	←	←	←	←	←	←
Display change	DISP MODE SETTING	Anzeise Befriebsart	MOSTRAR MODO	НАЕТРОЙКА ИНА РЕЖИМА	IMPOSTAZIONE MODO DISPLAY	转换表示	AFFICHAGE SOUS MENU	表示切替
Temperature display °C/°F setting	TEMP MODE *C/*F	Wethsel *C/*F	TEMPGRADOS	EANH.TEMNER *C/*F	TEMPERATURA *C/*F	温度°%₽	TEMPERATURE *C/*F	温度*%₽
Room air temperature display setting	ROOM TEMP DISP SELECT	Raum temp sewahit	MOSTRAR TEMP	Показывать темп.в комн.	TEMPERATURA AMBIENTE	吸入温度	TEMPERATURE AMBIANTE	スイロミオンド と3ウン
Automatic cooling/heating display setting	AUTO MODE DISP C/H	Auto Betrieb C/H	MOSTRAR F/C EN AUTO	HHA.T/X B PEXHME ABTO	AUTO C/H	自动表示	AFFICHAGE AUTO F/C	餔瞈

4.2 Function Setting

4.2.1 Operation Lock (Operation Function Limit Setting)

 The following settings can be made.

 ①no1
 :All buttons except for the [ON/OFF] button are locked.

 ②no2
 :All buttons are locked.

③OFF (default) :No buttons are locked.

* To activate this operation lock function on the normal screen, hold down the ON/OFF button for 2 seconds while holding down the FILTER (+) button.

How to Lock the Buttons Display example A MITSUBISHI ELECTRIC Locking A FUNCTION D пп 🗄 TEMP. () ON/OFF (6)(7)(1)(5)୍ର**୫୦୦୦୦୦** ଡMENU . OON/OFF FILTER (2 CHECK TEST × 1 ----(3) \bigcirc \bigcirc Δ PAR-21MAA CLEAR (1) While pressing the (MODE) button, press the (ON/OFF) button for 2 seconds to activate the remote controller's function selection mode. FUNCTION (2) Press the MODE button to select on the screen (at \triangle). SELECTION FUNCTION CHANGE MODE DISP MODE [Display A] LANGUAGE SELECTION SELECTION SETTING (3) Press the (MENU) button until "LOCKING FUNCTION" appears on the screen (at A). LOCKING SELECT LIMIT TEMP [Display A] FUNCTION AUTO MODE FUNCTION * Displays the mode that is set in "Temperature Range Limit Setting". (4) Press the (ON/OFF) button until the desired lock mode appears on the screen (at **D**). Lock All Except No limitation [Display **D**] ON/OFF 088 nol no2

(5) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode. Setting is now complete.

Completing steps (1) to (5) allows use of the operation lock function. To enable the lock function, carry out the following steps.

Enabling the Lock Function

(6) While pressing the FILTER (←) button, press the ON/OFF button for 2 seconds to enable the operation lock function.

FUNGTION appears on the screen (at 🕒).

* If a locked button is pressed while the operation lock function is in use, FUNCTION will blink on the screen (at ()).

Display example when operation lock function is in use



How to Unlock the Buttons

(7) While pressing the FILTER (←) button, press the ON/OFF button for 2 seconds. FUNGTION disappears from the screen (at (3)).





4.2.2 Auto Mode Setting

The following settings can be made.

ON (default) : Auto mode is displayed when selecting an operation mode only if the unit to be connected supports the auto mode.

However, this does not apply if the unit to be connected does not support the auto mode.

Operation mode can be switched :

 \rightarrow COOL \rightarrow DRY \rightarrow FAN \rightarrow AUTO \rightarrow HEAT-

②OFF : Even if the unit supports the auto mode, auto mode is not displayed when selecting an operation mode. Operation mode can be switched :

 \rightarrow COOL \rightarrow DRY \rightarrow FAN \rightarrow HEAT -

How to Set Auto Mode

- Display example MITSUBISHI ELECTRIC SELECT A AUTOMODE D ПП 🖁 TEMP. ()) ON/OFF (1)(5)(**□\$\$\$\$\$\$\$** @MENU OON/OFF FILTER 3 × 1 CHECK TEST \bigcirc \bigcirc PAR-21MAA CLEAR
- (1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.



- (3) Press the (Image) button so that SELECT AUTO MODE appears on the screen (at (A)). * The current setting is displayed.
- (4) Press the (ON/OFF) button to select whether auto mode is to be used (on) or not (off).

 $[Display] \xrightarrow{SELECT}_{AUTO MODE} \xrightarrow{SELECT}_{AUTO MODE} - \sigma FF on$

(5) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode. Setting is now complete.

* If you press the ON/OFF button before the MODE button, the settings you have made will be cancelled.

• Screen display when auto mode is set to ON

(1) Press the ON/OFF button.

The ON lamp lights up and operating contents are displayed on the LCD.

(2) Press the MODE button.

Each time the MODE button is pressed, the operation mode switches from one to another. "AUTO" is also displayed.

$$\longrightarrow \text{COOL} \longrightarrow \text{DRY} \longrightarrow \text{FAN} \longrightarrow \text{AUTO} \longrightarrow \text{HEAT}$$

- *1: If the remote controller is connected with the unit for cool operation only, "AUTO" and "HEAT" will not be displayed, nor will it be possible to select them.
 - Display example when auto mode is set to ON







• Screen display when auto mode is set to OFF

(1) Press the ON/OFF button.

The ON lamp lights up and operating contents are displayed on the LCD.

(2) Press the (MODE) button.

Each time the (MODE) button is pressed, the operation mode switches from one to another, but "AUTO" is not displayed.



*1: If the remote controller is connected with the unit for cool operation only, "HEAT" will not be displayed.

4.2.3 Temperature Range Limit Setting

The temperature setting range can be limited.

It can be limited for each mode.

- ①Cool mode : The temperature setting range for cool/dry mode can be changed.
- ②Heat mode : The temperature setting range for heat mode can be changed.
- ③Auto mode : The temperature setting range for auto mode can be changed.
- (4) OFF (default) : The temperature setting range is not limited.
- * When a mode other than OFF mode is set, temperature setting range limit setting for cool, heat and auto modes will be made simultaneously.

However, limit setting will not be made unless the range has been changed.

	Sett	Standard setting	
COOL-DRY Mode	Lower limit	Lower limit 19 °C – 30 °C	
	Upper limit	30 °C – 19 °C	19 °C – 30 °C
HEAT Mode	Lower limit	17 °C – 28 °C	17 °C – 28 °C
	Upper limit	28 °C – 17 °C	17 0-20 0
AUTO Mode	Lower limit	19 °C – 28 °C	19 °C – 28 °C
	Upper limit	28 °C – 19 °C	19 C-20 C

* Temperatures can be set within the range of "upper limit \geq " "lower limit".

Limiting the Temperature Range



(1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.



* No operation modes will be displayed if auto mode has been set to OFF.

(5) Press the **Section** button to select lower limit or upper limit.

Lower limit blinks. Upper limit blinks.

[Display 🕒]

 $\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & &$

(6) Press the [TEMP] buttons (\bigcirc and \bigcirc) to set the desired temperature setting range.

[Setting example for lower limit]

- (7) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode. Setting is now complete.
 - * If you press the ON/OFF button before the MODE button, the settings you have made will be cancelled.
 - * If an attempt is made to set a temperature outside the range when the temperature range limit function is in use, "LIMIT TEMP FUNCTION" will blink.

Display example when the temperature range limit function is in use

If employees tend to lower the temperature excessively in the office without permission, set the temperature setting range for cool/dry mode to 25 °C - 30 °C.

Setting



Even if someone who feels hot tries to press remote the controller's buttons to lower the temperature below 24 °C, or lower...

LIMIT TEMP FUNCTION blinks and the command is not accepted.



4.3 Basic Functions Setting

4.3.1 Remote Controller Main/Sub Setting

When using 2 remote controllers, they must be designated as the main and sub remote controllers.

The following settings can be made.

MAIN (default) : The remote controller is set as the main controller.

②SUB : The remote controller is set as the sub controller.

To Change the Main/Sub Setting



(1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.

(2) Press the MODE button until MODE selection appears on the screen (at (A)).



- (3) Press the (MENU) button to select "CONTROLLER" on the screen (at ().
- (4) Press the ON/OFF button to select "CONTROLLER MAIN" or "CONTROLLER SUB" on the screen (at \Lambda).

[Display \Lambda]	MAIN	

(5) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode.

4.3.2 Timer function setting (Weekly timer/Auto off timer/Simple timer)

The following settings can be made.

OWeekly Timer (default) : The weekly timer can be used.

- ②Auto Off Timer : The auto off timer can be used.
- ③Simple Timer : The simple timer can be used.
- (4) Timer Mode Off : Timer mode cannot be used.

* If the clock function is disabled (OFF), "Weekly Timer" cannot be selected.

Clock function setting

The following settings can be made.

OON (default) : The clock function can be used.

②OFF : The clock function cannot be used.

* If "OFF" is selected to disable the clock function, the weekly timer cannot be used to make day of the week/time settings. To use the weekly timer to set the day of the week and time, the clock function must be set to "ON" (default).

To Use the Clock



(1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.

(2) Press the MODE button until MODE selection appears on the screen (at (A))

CHANGE FUNCTION MODE DISP MODE [Display (A)] LANGUAGE SELECTION SELECTION SETTING

- (3) Press the (MENU) button to select "CLOCK" on the screen (at ().
- (4) Press the ON/OFF button so that "ON" appears on the screen (at **D**).

on $\rightarrow off$ -[Display D]

(5) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode.

* If you press the ON/OFF button before the MODE button, the settings you have made will be cancelled.

- Day of the week and time setting
- The day of the week and time can be set and changed. [The time can be set in 1-minute increments.]

Notes

- This setting is not possible if the clock function is disabled by the function setting.
- The day of the week and time are not displayed if the clock function is disabled by function selection.
- This setting is not possible if the simple timer or auto off timer has been selected.

Setting the Day of the Week and Time

	Display example
@ ——	
	₽ TEMP. ①ON/OFF
(0)	
(2)—— (5)——	
(1)(3)	PAR-21MAA / OCLOCK / VOPERATION A CLEAR
	and \bigtriangleup) to display $\underset{\leftarrow : \in NTER}{TIME SET}$ on the screen (at (A)).
[Display 🕒] 🔂 Sun — M	on \longrightarrow Tue \longrightarrow Wed \longrightarrow Thu \longrightarrow Fri \longrightarrow Sat $_$
	and \bigtriangleup) to set the desired time. and \bigtriangleup) longer will switch the time in 10-minute and 1-hour increments.
[Display 🕞] 💛 One-minute	> Ten-minute> One hour
(4) Press the FILTER (+) button to	confirm the time.
Note The time you have set can be cance	elled by pressing the MODE (BACK) button without confirming it.
(5) Proce the MODE (DACK) button	a to return to the normal corport and complete the day of the week/time cotting

(5) Press the MODE (BACK) button to return to the normal screen and complete the day of the week/time setting.
 * The day of the week and time you have set are displayed on the normal screen.

① Weekly Timer

- The weekly timer allows you to set up to 8 operations per day of the week.
- For each operation, you can set the ON (start) or OFF (stop) timer and temperature. The start timer, stop timer and temperature can also be set individually.
- The air conditioner is operated at the times you have set and according to the settings you have made.
- The time for the weekly timer can be set in 1-minute increments.
- * If "OFF" is selected to disable the clock function, the weekly timer cannot be used to make day of the week/time settings. To use the weekly timer to set the day of the week and time, the clock function must be set to "ON" (default). (Refer to 4.3.2)

Note

With the weekly timer, it is not possible to designate an operation mode.

The air conditioner will be operated in the currently selected operation mode. (Cool, Dry, Heat or Auto)

How to set the Weekly Timer



(1) Make sure that "WEEKLY" is displayed on the screen (at (3)).

(2) Press the 2 MENU button to select $\overrightarrow{}$ Image on the screen (at 3).

[Display \Lambda]		IMER MONITOR					
→ (3) Press the 🕘	ON/OFF) button unt	il the desire	d day of th	e week appe	ars.	
[Display 🕒]		Sun-Sat —	→ Sun →	Mon → -	→ Fri → S	at —]
(4) Press the 🏾	د. and		buttons to s	et the desi	red operatior	n No. (Up to 8 patterns can be set.)
[Display D]	n	₀¦↔	no2←	\rightarrow —	↔ ne	, 1 ≁	→ no8 ←
* A cell from the	s following Set up N	•	ix is selecte	d accordin	g to the settir	ngs yo	u have made in steps (2) and (3).
	Op No.	Sunday	Monday		Saturday		
	no1	• 8:30	Monuay		Gaturuay	-	- Setting contents -
		• ON • 23 °C					Starts the air conditioner at 8:30 with the temperature set to 23 °C.
	no2	• 10:00	• 10:00	• 10:00	• 10:00		
		• OFF	• OFF	• OFF	• OFF -		- Setting contents -
	 no8		_	├		-	Stops the air conditioner at 10:00.
	1100						
	Note						
	If "Sun	- Sat" is s	et in step (3), the same	e pattern can	be se	t for each day of the week.
					reas in the al		1
	(Exam	pie: Selecti	ng "Sun – S	at" and se	tting operatio	n No.	"no2")

(5) Press the [CLOCK] buttons (\bigcirc and \triangle) to set the desired time. (0:00 to 23:59)
$[Display \odot] \longrightarrow 9:00 \leftrightarrow 9:01 \leftrightarrow 23:59 \leftrightarrow 0:00 \leftrightarrow 0:01 \leftrightarrow - \leftrightarrow 8:58 \leftrightarrow 8:59 \leftarrow 0:00 \leftrightarrow 0:01 \leftrightarrow - \leftrightarrow 8:58 \leftrightarrow 8:59 \leftarrow 0:00 \leftrightarrow 0:01 \circ 0:01 $
(6) Press the ON/OFF button to select whether to start or stop the air conditioner at the time you have set in step (5).
$[Display \bigcirc] \longrightarrow ON \longrightarrow OFF - (Space)$
(7) Press the [TEMP] buttons (\bigcirc and \triangle) to set the desired room temperature. (12 °C to 30 °C)
$[Display \ \textbf{B}] \xrightarrow{(Space)} (Space) \xrightarrow{(C_1)} (Space) $
Temperature setting range : The temperature can be set within a range of 12 °C to 30 °C. However, the setting range varies with the type of the air conditioner. (Refer to 4-2-3.)
(8) After completing the settings in steps (4) to (7), press the FILTER (+) button to confirm them.
To cancel the settings you have made, press the CHECK (CLEAR) button once. * The time setting will change to ":", and the ON/OFF and temperature settings will all disappear.
(To clear all the weekly timer settings you have made, hold down the CHECK (CLEAR) button for 2 seconds or more until the settings blink. All of the settings will be cleared.)
Note The settings you have made can be cancelled by pressing the MODE (BACK) button before pressing FILTER (,) button. When 2 or more different operations for the same time are set, only the operation with the large operation No. will be effective.
(9) Repeat steps (3) to (8) to set the contents in the setup matrix.
(10) Press the MODE (BACK) button to return to the normal screen and complete weekly timer setting.
(11) If you press the ON/OFF button, the weekly timer will start and " 🕲 " will disappear from the screen.
Make sure that " 🕲 " disappears.
How to Review the Weekly Timer Settings
(1) Make sure that "WEEKLY" is displayed on the screen (at 🕒).
(2) Press the (Image) button to display TIMER MONITOR on the screen (at (A)).
(3) Press the ON/OFF button to select the day of the week you want to check.
(4) Press the And Att a time.
* The settings are displayed in order of time setting.
(5) To close the TIMER and return to the normal screen, press the MODE button.

To Turn Off the Weekly Timer

(1) Press the \bigcirc ON/OFF button to display N on the screen (at P).



To Turn On the Weekly Timer

(1) Press the ON/OFF button so that 🕲 disappears from the screen (at 🕞).



• Weekly timer setting procedure

To facilitate weekly timer setting, it is recommended to input the set up table below with the settings (day of the week, time, operation (on/off)) that you are going to make.

Weekly timer setup table (up to 8 patterns can be set for each day of the week, 56 patterns in total for a week).

	Operation No.		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Time setting							
1	no 1	On/off setting							
		Temperature							
		Time setting							
2	no 2	On/off setting							
		Temperature							
		Time setting							
3	no 3	On/off setting							
		Temperature							
		Time setting							
4	no 4	On/off setting							
		Temperature							
	no 5	Time setting							
5		On/off setting							
		Temperature							
		Time setting							
6	no 6	On/off setting							
		Temperature							
		Time setting							
7	no 7	On/off setting							
		Temperature							
		Time setting							
8	no 8	On/off setting							
		Temperature							

Operation No. : Use the 😻 and 👾 buttons to select the desired operation No.

Day of the week : Use the ON/OFF button to select the desired day. ("Sun to Sat", "Sun", "Mon", "Tue", "Wed", "Thu", "Fri" or "Sat" can be selected.)

Time : Use the [\bigcirc CLOCK] buttons (\bigtriangledown and \bigtriangleup) to set the desired time. (The time can be set from 0:00 to 23:59 in 1-minute increments.)

Operation (ON/OFF) : Use the ON/OFF button to select the desired operation (ON, OFF, (space)).

Temperature : Press the [$\mbox{tremperature}$ TEMP] buttons (\bigtriangledown and \bigtriangleup) to set the desired temperature.

② Auto Off Timer

- The auto off timer begins counting down when the air conditioner starts, and shuts off the air conditioner when the set time passed.
- The time on the auto off timer can be set in a range of 30 minutes to 4 hours, in 30-minute increments.
 - * By default, the weekly timer is selected as the remote controller's timer function.

To use the auto off timer, switch the timer function to the auto off timer using the remote controller's function selection.

Note 1 : If the auto off timer is selected, it is not possible to use the weekly and simple timers.

Note 2: Timer operation is not possible when:

A timer is operating, an error has occurred, the air conditioner is operating, the remote controller is diagnosing a problem, function selection is in progress, timer setting is in progress, or the system is centrally controlled. (ON/OFF operation is prohibited under the above conditions.)

Selecting the Auto Off Timer



Steps (1) to (5) are necessary when switching the timer function from simple timer, weekly timer and no timer.

(1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.



* If you press the ON/OFF button before the MODE button, the settings you have made will be cancelled.

How to Set the Auto Off Timer



Display example



To Turn Off the Auto Timer...

- (1) Press the ON/OFF button for 3 seconds so that the timer execution time disappears from the screen (at O).
 - If the air conditioner is operated with the auto off timer turned OFF, N will appear on the screen (at **(**).
 - * The auto off timer will be effective the next time that the air conditioner is operated.

Display example (auto off timer is off)



To Turn On the Auto Off Timer...

- (1) Press the ON/OFF button for 3 seconds while the timer is OFF, so that (a disappears from the screen (at) and the timer execution time appears on the screen (at).
 - * The timer execution time that was set previously will be displayed.
 - Display example (auto off timer is on)



③ Simple Timer

- You can set the simple timer in any of 3 ways.
- Start time only : The air conditioner starts when the set time has passed.
- Stop time only : The air conditioner stops when the set time has passed.
- Start & Stop times : The air conditioner starts and stops at the respective passed times.
- The simple timer (Start and stop) can be set only once within a 72-hour period. The time setting is made in hour increments.
- Note 1: Timer operation is not possible when:

A timer is operating, an error has occurred, the air conditioner is operating, the remote controller is diagnosing a problem, function selection is in progress, timer setting is in progress, or the system is centrally controlled. (ON/OFF operation is prohibited under the above conditions.)

If the simple timer is not currently selected, select it and make the necessary changes to the current settings as explained below.



Steps (1) to (5) are necessary when switching the timer function from auto off timer, weekly timer and no timer.

(1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's func-
tion selection mode.
(2) Press the MODE button until MODE SELECTION appears on the screen (at (A)).
[Display (A)] CHANGE LANGUAGE FUNCTION SELECTION MODE SELECTION
(3) Press the OMENU button so that "TIMER" appears on the screen (at A).
(4) Press the ON/OFF button until "SIMPLE TIMER" appears on the screen (at (A)).
$[Display \textcircled{0}] \longrightarrow \underset{OFF}{\text{TIMER MODE}} \longrightarrow \underset{TIMER}{\text{AUTO OFF}} \longrightarrow \underset{TIMER}{\text{SIMPLE}} \longrightarrow \underset{TIMER}{\text{WEEKLY}} \longrightarrow$
(5) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode.
* If you press the (PON/OFF) button before the MODE button, the settings you have made will be cancelled.

How to Set the Simple Timer



Make sure that "SIMPLE TIMER" is displayed on the screen (at (2)).

(1) Press the \bigcirc MENU button to select $\xrightarrow{\text{TIME SET}}_{\leftarrow : \text{ENTER}}$ on the screen (at A).

TIMER TIMER SET [Display (Display)] MONITOR ← :ENTER

(2) Press the ON/OFF button to select "Start time only" or "Stop time only".



• Start time only (Displays the time at which the air conditioner starts) : "Hr AFTER ON"

• Stop time only (Displays the time at which the air conditioner stops) : "Hr AFTER OFF"

(3) Press the [\bigcirc CLOCK] buttons (\bigtriangledown and \bigtriangleup) to set the desired time. (The time can be set up to 72 hours in 1-hour increments.)

 $[Display \bigcirc] \longrightarrow 1 \iff 2 \iff - \iff 71 \iff 72 \longrightarrow 72$

* To cancel the time you have set, press the (CHECK) (CLEAR) button.

(4) Press the FILTER (+) button to confirm the setting.

*1. When using only the start timer or stop timer, make sure that "--" is displayed for the timer you are not going to use.

*2. To cancel the time you have set, press the CHECK (CLEAR) button to display "---", and then press the FILTER (+) button to confirm it.

(5) When using both the start and stop timers, carry out steps (2) to (4) to set both the start and stop times.

* It is not possible to set the same time for both the start and stop times.

(6) Press the (MODE) button to complete the setting procedure.

[Display 🕒]	ιΩ	Hr AFTER	ON	[Display 🕒]	SIMPLE	
	Ten hours	ALLER				

(7)Press the ON/OFF button. The simple timer will start to operate and the timer execution time you have set will be displayed.

If both start and stop timers are set, whichever time will come first will be displayed.

Review the Current Simple Timer Settings

- (1) Be sure that the "SIMPLE" indicator is visible on the screen (at \blacksquare).
- (2) Press the OMENU button, so that the TIMER Appears on the screen (at A).
- The time you have set to start or stop the timer appears on the screen (at $oldsymbol{\Theta}$).
- (3) Press the MODE button to close the TIMER display and return to the standard control screen.



To Turn Off the Simple Timer...

(1) Press the ON/OFF button so that the timer setting no longer appears on the screen (at C).





④ Timer Mode Off

Timer mode cannot be used.

Display example



How to set the Timer mode Off

- (1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.
- (2) Press the (MODE) button until appears on the screen (at (Δ)).

(3) Press the (Image) button so that "TIMER" appears on the screen (at (A)).

(4) Press the (ON/OFF) button until "TIMER MODE OFF" appears on the screen (at ().

		AUTO OFF		WEEKLY
--	--	----------	--	--------

- (5) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode.
 - * If you press the ON/OFF button before the MODE button, the settings you have made will be cancelled.

4.3.3 Contact Number Setting for Error Situation

The following settings can be made.

- ① CALL OFF (default) : The preset contact number is not displayed even when an error occurs.
- ② CALL *********** : The preset contact number is displayed when an error occurs. (The contact number can consist of up to 12 digits.)
- CALL - : The contact number is not set in default setting. It is displayed.

Setting the Contact Numbers



- (1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.
- (2) Press the MODE button until appears on the screen (at \triangle).

[Display ▲] → CHANGE → FUNCTION → MODE SELECTION → SETTING			
(3) Press the OMENU button until "CALL" appears on the screen (at (A)).			
(4) Press the ON/OFF button to select whether or not to show the contact number. Do not show Show			
[Display (A)] CALL CALL			
(5) Press the [\bigcirc CLOCK] buttons (\bigtriangledown and \bigtriangleup) to set the desired contact number, one digit at a time. To move the input			
digit position left or right, press the [TEMP] buttons (\bigcirc and \triangle).			
$[Display \textcircled{0}] \longrightarrow 0 \nleftrightarrow 1 \bigstar - \bigstar 9 \bigstar [\\ Space]$			
The contact number can contain up to 12 digits.			
[When entering "012"]			
[Display 🔕] CALL • 012_			
"0" \rightarrow Press the [\bigcirc CLOCK] button (\bigtriangleup) once.			
Each time a value is entered, press the [TEMP] button (
"1" \rightarrow Press the [\bigcirc CLOCK] button (\bigtriangleup) twice.			
"2" \rightarrow Press the [\bigcirc CLOCK] button (\bigtriangleup) 3 times.			

- (6) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode.
 - * If you press the ON/OFF button before the MODE button, the settings you have made will be cancelled.
- (7) If you press the CHECK (CLEAR) button, the contact number will be displayed for 5 seconds.
- Once the contact number has been set, the error code and contact number will be displayed alternately when an error occurs.


4.4 Display Change Setting

4.4.1 Temperature Display °C/°F Setting

Switching the Temperature Display Unit between °F and °C



4.4.2 Room Temperature Display Setting

The following settings can be made. ① ON (default) : The room temperature is displayed.

② OFF : The room temperature is not displayed.

Setting the Room Temperature



(1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.



- (5) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode.
 - * If you press the ON/OFF button before the MODE button, the settings you have made will be cancelled.
 - Room temperature display example when "ON" is selected
- Room temperature display example when "OFF" is selected



4.4.3 Automatic Cooling/Heating Display Setting

- This section explains how to set whether to display "COOL"/ "HEAT" in auto mode. It will not be displayed if auto mode is set to OFF.
- ① ON (default) : One of "Automatic cooling" and "Automatic heating" is displayed under the automatic mode is displayed.
- ② OFF : Only "Automatic" is displayed under the automatic mode.

Selecting Whether to Display "COOL"/"HEAT" in Auto Mode



(1) While pressing the MODE button, press the ON/OFF button for 2 seconds to activate the remote controller's function selection mode.



- (3) Press the (MENU) button so that "AUTO MODE DISP C/H" appears on the screen (at ().
- (4) Press the ON/OFF button to select "on" or "oFF" on the screen (at **D**).

$$[\text{Display } \bullet] \longrightarrow on \longrightarrow oFF -$$

(5) While pressing the MODE button, press the ON/OFF button for 2 seconds to return to normal mode.

* If you press the (ON/OFF) button before the (MODE) button, the settings you have made will be cancelled.

■ Display example when "AUTO MODE DISP C/H" is set to "ON"

```
[During auto (cool) mode]
```



[During auto (heat) mode]



Display example when "AUTO MODE DISP C/H" is set to "OFF"



VI. Unit Function Setting by the Remote Controller (for Mr. SLIM)

Perform the following settings only to change the functions for Mr. Slim series. (This setting is not possible with the City-Multi series.)

Each function can be set according to necessity using the remote controller. The setting of function for each unit can only be done by the remote controller. Select available function from the table. (For details regarding initial settings and operation modes of each unit, refer to the unit installation manual.)

Function	Settings	Mode No.	Setting No.	Check	Remarks
Power failure	OFF	1	1		
automatic recovery	ON		2		
Indoor temperature	Average data from each indoor unit		1		
detecting *1	Data from the indoor unit with remote controller	2	2		
	Data from main remote controller		3		
	Not supported		1		
	Supported (indoor unit does not intake outdoor air		2		
LOSSNAY	through LOSSNAY)	3	2		
connectivity	Supported (indoor unit intakes outdoor air through		3		
	LOSSNAY)		3		
Doworvoltogo	240V	4	1		
Power voltage	220V, 230V	4	2		
Auto operating mode	Auto energy-saving operation ON	5	1		
*2	Auto energy-saving operation OFF	5	2		
Frost prevention	2℃ (Normal)	15	1		
temperature	3°C	15	2		
Defrecting control	Standard	17	1		
Defrosting control	For high humidity		2		
Refrigerant leakage	70% (RP35, 50) / 80% (RP60-140, HRP)	21	1		
setting(%) *3	50% (RP35, 50) / 60% (RP60-140, HRP)		2		

(1) Itemised functions of the entire refrigerant system (select unit number 00)

*1. Can be set only when a wired remote controller is used. This function cannot be set for floor type models. When using 2 remote controllers (two-remote controller operation), the remote controller with built-in sensor must be set as a main remote controller.

*2. Can be set only when the outdoor unit is an inverter type.

*3. Can be set only when the outdoor unit is (H)RP type.

Meaning of "Function setting"

Mode02 : indoor temperature detecting

No	indoor temperature(ta)		OUTDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR		OUTDOOR INDOOR REMOTE (MAIN) © (SUB) 0	
No.1	Average data of the sensor on all the indoor units	Intial setting	ta=(A+B)/2	ta=(A+B)/2	ta=A	ta=A
No.2	The data of the sen- sor on the indoor unit that connected with remote controller		ta=A	ta=B	ta=A	ta=A
No.3	The data of the sen- sor on main remote controller.		ta=C	ta=C	ta=C	ta=C

(2) Itemised functions of the indoor unit

(select unit numbers 01 to 03 or AL [Wired remote controller] / 07 [Wireless remote controller])

Function	Settings			Mode No.	Setting No.	Check	Remarks
	100Hr				1		
Filter sign	2500Hr			07	2		1
	"Clean the filter" ind	licator is not disp	layed.]	3]
Airflow	Silent	Standard]		1		1
Air flow (Fan speed) *2	Standard	High ceiling	PLA-RP-AA type	08	2		1
(Fail speed) 2	High ceiling	High ceiling [®]	_]		3]
No. of air outlets	4 directions				1		1
(not for SLZ)	3 directions			09	2]
	2 directions]	3		
Installed options	Not supported	Not supported		10	1]
(high performance filter) *2	Supported			10 ך	2]
	No vanes (Vane No	.3 setting : PLA	only)		1		
Vane setting	Vane No. 1 setting			11	2		
	Vane No. 2 setting				3		
Swing	Not available Swing			23	1		
Swing	Available Wa	ve air flow	PLA-RP-BA type	23	2		
Set temperature in heating	ON			24	1		
mode 4deg-up *1	OFF			24	2]
For encoding the boot	Extra low				1		1
Fan speed when the heat- ing thermostat is OFF *1	Stop			25	2		1
ing thermostat is OFF 1	Set fan speed]	3		1	
Fan speed when the cool-	Set fan speed		27	1			
ing thermostat is OFF	Stop] 2/	2		
Detection of abnormality (P8)	Detect				1]
of the pipe temperature	Neglect			28	2		1

*1 SLZ/SEZ-KC/SEZ-KA type : when SW3-5 (indoor controller board) is ON, the setting of SW3 takes precedence.

			Function	Action by switch operation		
		Dip switch	FUNCTION	OFF	ON	
		SW3-1	Power failure automatic recovery	OFF	ON	
SW3	SW3 Function setting	SW3-2	Set temperature in heating mode (4 deg up)	Available	Not available	
		SW3-3	Fan speed when the heating the thermostat is OFF	Extra low	Stop	
			—	_	_	
		SW3-5*	SW3 function	Not available	Available	

• Function setting becomes effective, when the Dip switch SW3-5 is ON. * Switch off SW3-5 when the function setting is done by wired remote controller.

· SEZ-KD·VA(L) model is excluded.

*2 SEZ-KD · VA(L) MODE No. 08,10

Function	Settings	Mode No.	Setting No.	Check	Remarks
	15Pa		1		
External static pressure	35Pa		2		
	50Pa		3		
	The same as setting of mode No. 08	10	1		
	5Pa (set made No. 08 to 1)	10 2			

Note

If a function of an indoor unit is changed by function selection after installation is complete, make sure that a " $\sqrt{}$ " mark, etc., is given in the "Check" column of Table to indicate the change

[Flow of function selection]

First, try to familiarize yourself with the flow of the function selection procedure. In this section, an example of setting the room temperature detection position is given.

For actual operations, refer to steps ${\mathbb O}$ to ${\mathbb O}.$



Selecting functions using the wired remote controller



[Operating Procedure] ① Check the setting items provided by function selection. If settings for a mode are changed by function selection, the functions of that m

If settings for a mode are changed by function selection, the functions of that mode to ⑦, fill in the "Check" column in Table, and then change them as necessary. For	de will be changed accordingly. Check all the current settings according to steps $\textcircled{0}$ or initial settings, refer to the indoor unit's installation manual.
 Switch off the remote controller. Hold down the FILTER (mode is 15 to 28) and (B) TEST buttons simultaneously for at least 2 seconds. FUNCTION will start to blink, and then the remote controller's display content will change as shown below. 	 ③ Set the outdoor unit's refrigerant address. ⑥ Press the [④ CLOCK] buttons ((▽) and △)) to select the desired refrigerant address. The refrigerant address changes from "00" to "15". (This operation is not possible for single refrigerant systems.)
Refrigerant address	
* If the unit stops after FUNCTION SELECTION blinked for 2 seconds or "88" blinks in the room tem Check to see if there are any sources of noise or interference near the transmiss	
Note If you have made operational mistakes during this procedure, exit function select	tion (see step $(\overline{\mathbb{M}})$ and then restart from step $(\overline{\mathbb{R}})$
 Set the indoor unit number. 	© Press the [\bigcirc CLOCK] buttons (\bigtriangledown) and \frown) to select the unit number
Or all integer and management of the second seco	of the indoor unit for which you want to perform function selection. The unit number changes to "00", "01", "02","03",04" and "AL" each time a button is pressed.
Unit number display section	
 * To set modes 01 to 06 or 15 to 22 select unit number "00". * To set modes 07 to 14 or 23 to 28 carry out as follows: To set each indoor unit individually, select "01" to "04". To set all the indoor units collectively, select "AL". 	© When the refrigerant address and unit number are confirmed by pressing the MODE button, the corresponding indoor unit will start fan operation. This helps you find the location of the indoor unit for which you want to perform function selection. However, if "00" or "AL" is selected as the unit number, all the indoor
 ⑤ Confirm the refrigerant address and unit number. ⑥ Press the MODE button to confirm the refrigerant address and unit number. 	units corresponding to the specified refrigerant address will start fan operation. Example) When the refrigerant address is set to 00 and the unit number is 02.
After a while, " " will start to blink in the mode number display area.	00 refrigerant address
	Outdoor unit
display section	Indoor unit Unit number 01 Unit number 02
address does not exist in the system. Furthermore, if "F" appears and blinks in the unit number display area and the refrigerant address display area also blinks, there are no units that corre- spond to the selected unit number. In this case, the refrigerant address and unit number may be incorrect, so repeat steps ② and ③ to set the correct ones.	* When grouping different refrigerant systems, if an indoor unit other than the one to which the refrigerant address has been set performs fan operation, there may be another refrigerant address that is the same as the specified one. In this case, check the DIP switch of the outdoor unit to see whether such a refrigerant address exists.
 ⑧ Select the mode number. ⑨ Press the [∯ TEMP] buttons ((▽) and (△)) to set the desired mode number. (Only the selectable mode numbers can be selected.) 	Mode number
 ③ Select the setting content for the selected mode. ⑤ Press the ④ MENU button. The currently selected setting number will blink, so check the currently set content. 	
Setting number display section	Init operating average
 Register the settings you have made in steps ③ to ⑦. Press the MODE button. The mode number and setting number will start to blink and registration starts. 	The mode number and setting number will stop blinking and remain lit, indicating the end of registration.
FUNCTION 00 00 \$	FUNCTION 00 00
* If " " is displayed for both the mode number and setting number and "BB" blinks Check to see if there are any sources of noise or interference near the transmiss	
If you wish to continue to select other functions, repeat steps ③ to ③.	
 © Complete function selection. ③ Hold down the FILTER (mode is 15 to 28) and TEST buttons simultaneously for at least 2 seconds. After a while, the function selection screen will disappear and the air conditioner OFF screen will reappear. 	 * Do not operate the remote controller for at least 30 seconds after completing function selection. (No operations will be accepted even if they are made.)
Note If a function of an indoor unit is changed by function selection after installation is complete, m	ake sure that a "O" mark, etc., is given in the "Check" column of Table to indicate the change.

VII. Test Run by the Remote Controller (for Mr. SLIM) 1. Check Points Under Test Run

Before test run

- After installation of indoor and outdoor units, piping work and electric wiring work, re-check that there is no refrigerant leakage, loosened connections and incorrect polarity.
- Measure impedance between the ground and the power supply terminal block(L, N) on the outdoor unit by 500V Megger and check that it is 1.0MΩ or over.
- *Don't use 500V Megger to indoor/outdoor connecting wire terminal block(S1, S2, S3) and remote controller terminal block (1, 2). This may cause malfunction.
- Make sure that test run switch (SW4) is set to OFF before turning on power supply.
- Turn on power supply 12 hours before test run in order to protect compressor.
- For specific models which requires higher ceiling settings or auto-recovery feature from power failure, make proper changes of settings referring to the description of Selection of Functions through Remote Controller.
- Make sure to read operation manual before test run. (Especially items to secure safety.)

2.Test Run using the Wired Remote Controller



- In case of test run, the OFF timer will be activated, and the test run will automatically stop after 2 hours.
- The room temperature display section shows the pipe temperature of indoor units during the test run.
- Check that all the indoor units are running properly in case of simultaneous twin and triple operation. Malfunctions may not be displayed regardless of incorrect wiring.
- *1 After turning on the power supply, the system will go into startup mode, "PLEASE WAIT" will blink on the display section of the room temperature, and lamp(green) of the remote controller will blink.

As to INDOOR BOARD LED, LED1 will be lit up, LED2 will either be lit up in case the address is 0 or turned off in case the address is not 0. LED3 will blink.

As to OUTDOOR BOARD LED, LED1(green) and LED2(red) will lit up. (After the startup mode of the system finishes, LED2(red) will be turned off.)

In case OUTDOOR BOARD LED is digital display, [-] and [-] will be displayed alternately every second.

If one of the above operations doesn't function correctly, the causes written below should be considered. Find causes from the symptoms.

The below symptoms are under test run mode. "start up" in the table means the display status of *1 written above.

Symptoms in test	run mode	Causa
Remote Controller Display	OUTDOOR BOARD LED Display < > indicates digital display.	Cause
Remote controller displays "PLEASE	After "startup" is displayed, only	After power is turned on, "PLEASE WAIT" is displayed for 2
WAIT", and cannot be operated.	green lights up. <00>	minutes during system startup. (Normal)
After power is turned on, "PLEASE WAIT"	After "startup" is displayed, green(once) and red(once) blink alternately. <f1></f1>	\bullet Incorrect connection of outdoor terminal block (L1, L2, L3 and S1, S2, S3.)
is displayed for 3 minutes, then error code is displayed.	After "startup" is displayed, green(once) and red(twice) blink alternately. <f3, f5,="" f9=""></f3,>	Outdoor unit's protection device connector is open.
	After "startup" is displayed, green(twice) and red(once) blink	• Incorrect wiring between the indoor and outdoor unit (Polarity
No display appears even when remote	alternately. <ea. eb=""></ea.>	is wrong for S1, S2, S3.)
controller operation switch is turned on.	allemately. <ea. ed=""></ea.>	Remote controller transmission wire short.
(Operation lamp does not light up.)	After "startup" is displayed, only	There is no outdoor unit of address 0.
	green lights up. <00>	(Address is other than 0.)
		Remote controller transmission wire open.
Display appears but soon disappears	After "startup" is displayed, only	After canceling function selection, operation is not possible for
even when remote controller is operated.	green lights up. <00>	about 30 seconds. (Normal)

* Press the remote controller's CHECK button twice to perform self-diagnosis. See the table below for the contents of LCD display. For details, please refer to " VII.2.Error code list "

LCD	Contents of inferior phenomena	
P1~9	Malfunction outdoor unit	
Fb	Malfunction indoor unit	
U1~UP	Malfunction outdoor unit	
F3~F9	Malfunction outdoor unit	
E0~E5	Remote controller transmitting error	
E6~EF	Indoor/outdoor unit communication error	
	No error history	
FFFF	No applied unit	

See the table below for details of the LED display (LED 1, 2, 3) on the indoor controller board.

LED1 (microcomputer power supply)	Lits when power is supplied.		
LED2 (remote controller)	Lits when power is supplied for wired remote controller.		
(The indoor unit should be connected to the outdoor unit with address "0" setting.		
LED3 (indoor/outdoor communication)	Blink when indoor and outdoor unit are communicating.		

W. Self-Diagnosis by the Remote Controller (for Mr.SLIM)

1. How To Proceed "Self-Diagnosis"

1-1. When a Problem Occurs During Operation

If a problem occurs in the air conditioner, the indoor and outdoor units will stop, and the problem is shown in the remote controller display.

[CHECK] and the refrigerant address are displayed on the temperature display, and the error code and unit number are displayed alternately as shown below.

- ① (If the outdoor unit is malfunctioning, the unit number will be "00".)
- (2) In the case of group control, for which one remote controller controls multiple refrigerant systems, the refrigerant address and error code of the unit that first experienced trouble (i.e., the unit that transmitted the error code) will be displayed.
- ③To clear the error code, press the (① ON/OFF) button.





When using remote operation of remote/local combined control, clear the error code by pressing the (ON/OFF) button on remote controller after changing operation from remote to local. During central control by a MELANS controller, clear the error code by pressing the (ON/OFF) button on MELANS remote controller.

1-2. Self-Diagnosis During Maintenance or Service

Since each unit has a function that stores error codes, the latest check code can be recalled even if it is cancelled by the remote controller or power is shut off.

Check the error code history for each unit using the remote controller. ① Switch to self-diagnosis mode.

 \oplus Press the CHECK) button twice within 3 seconds. The display content will change as shown below.

SELF CHECK

to be diagnosed

 $\Pi\Pi$

- ② Set the unit number or refrigerant address you want to diagnose.
 - E Press the [TEMP] buttons (\bigtriangledown and \frown)) to select the desired number or address. The number (address) changes between [01] and [50] or [00] and [15].



selected and the self-diagnosis process will begin.

3 Display self-diagnosis results <When there is error code history:

(For the definition of each error code, refer to the indoor unit's installation manual or service handbook.)

(Alternating Display)





Reset the error history.

Display the error history in the diagnosis result display screen (see step ③).

| | | |



Press the ON/OFF button twice within 3 seconds. The self-diagnosis address or refrigerant address will blink.

When the error history is reset, the display will look like the one shown below. However, if you fail to reset the error history, the error content will be displayed again.



5 Cancel self-diagnosis.

Self-diagnosis can be cancelled by the following 2 methods.



Press the $\bigcirc ON/OFF$ button.

 \rightarrow Self-diagnosis will be cancelled and the indoor unit will stop.

1-3. Remote Controller Diagnosis

 First, check that the power-on indicator is lit. If the correct voltage (DC12 V) is not supplied to the remote controller, the indicator will not light. If this occurs, check the remote controller's wiring and the indoor unit. 	SELF CHECK
 ② Switch to the remote controller self-diagnosis mode. ④ Press the <u>CHECK</u> button for 5 seconds or more. The display content will change as shown below. 	Press the FILTER button to start self-diagnosis.
SELF CHECK	SELF CHECK
 Remote controller self-diagnosis result 	
[When the remote controller is functioning correctly]	[When the remote controller malfunctions] (Error display 1) "NG" blinks. → The remote controller's transmitting-receiv- ing circuit is defective.
₽ ₽ ⁻ ₩-	
Check for other possible causes, as there is no problem with the remote controller.	The remote controller must be replaced with a new one.
[Where the remote controller is not defective, but cannot be operated.] (Error display 2) [E3], [6833] or [6832] blinks. → Transmission is not possible.	(Error display 3) "ERC" and the number of data errors are displayed. → Data error has occurred.
	KL KL <t< td=""></t<>
There might be noise or interference on the transmission path, or the indoor unit or other remote controllers are defective. Check the transmission path and other controllers.	The number of data errors is the difference between the number of bits sent from the remote controller and the number actually transmitted through the transmission path. If such a problem is occurring, the transmitted data is affected by noise, etc. Check the transmission path.
	Transmission data from remote controller المعالية ال معالية المعالية المعا

B Press the CHECK button for 5 seconds or more. Remote controller diagnosis will be cancelled, "PLEASE WAIT" and operation lamp will blink. After approximately 30 seconds, the state in effect before the diagnosis will be restored.

2.Error Code List (for Mr.SLIM)

<Display function of inspection for outdoor unit>

The blinking patterns of both LED1(green) and LED2(red) indicate the types of abnormality when it occurs. Types of abnormality can be indicated in details by connecting an optional part A-Control Service Tool (PAC-SK52ST) to connector CNM on outdoor controller board.

[Display]

(1)Normal condition

Lipit condition	Outdoor con	troller board	A-Control Service Tool	
Unit condition	LED1 (Green)	LED2 (Red)	Error code	Indication of the display
When the power is turned on	Lighted	Lighted	$-\Leftrightarrow-$	Alternately blinking display
When unit stops	Lighted	Not lighted	00, etc.	Operation mode
When compressor is warming up	Lighted	Not lighted	08, etc.	
When unit operates	Lighted	Lighted	C5, H7 etc.	-

(2)Abnormal condition

Indic	ation			Error
Outdoor con	troller board	Contents	Error	Inspection method
LED1 (Green)	LED2 (Red)	Contents	code *1	Inspection method
1 blinking	2 blinking	Connector(63L) is open.	F3	①Check if connector (63L or 63H) on the outdoor controller board is not
		Connector(63H) is open.	F5	disconnected.
		2 connectors are open.	F9	②Check continuity of pressure switch (63L or 63H) by tester.
2 blinking 1 blinking		Miswiring of indoor/outdoor unit conne- cting wire, excessive number of indoor units (4 units or more)	(EA)	 ①Check if indoor/outdoor connecting wire is connected correctly. ②Check if 4 or more indoor units are connected to outdoor unit.
	Miswiring of indoor/outdoor unit co- nnecting wire (converse wiring or di- sconnection)	(Eb)	③Check if noise entered into indoor/outdoor connecting wire or power supply.	
		Startup time over	(EC)	
	Indoor/outdoor unit communication error (signal receiving error) is detected by in- door unit.	E6	 ①Check if indoor/outdoor connecting wire is connected correctly. ②Check if noise entered into indoor/outdoor connecting wire or power 	
	Indoor/outdoor unit communication error (transmitting error) is detected by indoor unit.	E7	supply. ③Check if noise entered into indoor/outdoor controller board.	
	Indoor/outdoor unit communication error (signal receiving error) is detected by outdoor unit.	(E8)	④Re-check error by turning off power, and on again.	
	Indoor/outdoor unit communication error (transmitting error) is detected by outdoor unit.	(E9)		
	3 blinking	Remote controller signal receiving error is detected by remote controller.	E0	①Check if connecting wire of indoor unit or remote controller is connected correctly.
		Remote controller transmitting error is detected by remote controller.	E3	 Check if noise entered into transmission wire of remote controller Re-check error by turning off power, and on again.
		Remote controller signal receiving error is detected by indoor unit.	E4	
		Remote controller transmitting error is detected by indoor unit.	E5	
	4 blinking	Error code is not defined.	EF	 ①Check if remote controller is MA remote controller(PAR-21MAA). ②Check if noise entered into transmission wire of remote controller. ③Check if noise entered into indoor/outdoor connecting wire. ④Re-check error by turning off power, and on again.
	5 blinking	Serial communication error <communication between="" outdoor<br="">controller board and outdoor power board> <communication between="" outdoor<br="">controller board and MNET BC, board</communication></communication>	Ed	 ① Check if connector (CN4) on outdoor controller board and outdoor power board is not disconnected. ② Check if there is poor connection of connector on outdoor controller board(CNMNT and CNVMNT).
		controller board and M-NET P.C. board> Communication error of M-NET	A0~A8	③Check M-NET communication signal.
		system		

*1.Error code displayed on remote controller.Error codes given in () are not displayed on remote controller.

Outdoor con	ation troller board		Error	Error
_ED1 (Green)		Contents	code *1	Inspection method
3 blinking	1 blinking	Abnormality of shell thermistor (TH32) and discharging temperature (TH4)	U2	 ①Check if stop valves are open. ②Check if connectors (TH4, TH32, LEV-A and LEV-B) o
		Abnormality of superheat due to low dis- charge temperature	U7	 outdoor controller board are not disconnected. ③Check if unit fills with specified amount of refrigerant. ④Measure resistance values among terminals on indoor valve and outdoor linear expansion valve with a tester
	2 blinking	Abnormal high pressure (High pressure switch 63H worked.)	U1	 Check if indoor/outdoor units have a short cycle on their air ducts. Check if connector (63H) on outdoor controller board i not disconnected. Check if heat exchanger and filter is not dirty. Measure resistance values among terminals on linear expansion valve with a tester.
	3 blinking	Abnormality of outdoor fan motor rotational speed	U8	①Check the outdoor fan motor.
		Protection from overheat operation (TH3)	Ud	
	4 blinking	Compressor over current breaking (Start-up locked)	UF	①Check if stop valves are open. ②Check looseness, disconnection, and converse con-
		Compressor over current breaking	UP	nection of compressor wiring.
		Abnormality of current sensor (P.B.) Abnormality of power module	UH U6	 ③Measure resistance values among terminals on compressor with a tester. ④Check if outdoor unit has a short cycle on its air duct.
	5 blinking	Open/short of discharge thermistor (TH4) and shell thermistor (TH32)	U3	 ①Check if connectors (TH3, TH4, TH7/6, TH32) on out- door controller board and connector (CN3) on outdoor
		Open/short of outdoor thermistors (TH3, TH6, TH7 and TH8)	U4	power board are not disconnected. ②Measure resistance value of outdoor thermistors
	6 blinking	Abnormality of heatsink temperature	U5	 ①Check if indoor/outdoor units have a short cycle on their air ducts. ②Measure resistance value of outdoor thermistor(TH8).
	7 blinking	Abnormality of voltage	U9	 Check looseness, disconnection, and converse connection of compressor wiring. Measure resistance value among terminals on compressor using a tester. Check the continuity of contactor (52C). Check if power supply voltage decreases. Check the wiring of CN52C. Check the wiring of CNAF.
4 blinking	1 blinking	Abnormality of room temperature thermis- tor (TH1)	P1	①Check if connectors (CN20, CN21, CN29 and CN44) on indoor controller board are not disconnected.
		Abnormality of pipe temperature thermistor /Liquid (TH2)	P2	[©] Measure resistance value of indoor thermistors.
		Abnormality of pipe temperature thermis- tor/Condenser-Evaporator	P9	
	2 blinking	Abnormality of drain sensor (DS) Float switch (FS) connector open	P4	 ①Check if connector (CN31,CN4F) on indoor controller board is not disconnected. ②Measure resistance value of indoor thermistors.
		Indoor drain overflow protection	P5	 Measure resistance value of indoor treministors. Measure resistance value among terminals on drain-u machine using a tester. Check if drain-up machine works. Check drain function.
	3 blinking	Freezing (cooling)/overheating (heating) protection	P6	 ①Check if indoor unit has a short cycle on its air duct. ②Check if heat exchanger and filter is not dirty. ③Measure resistance value on indoor and outdoor fan motors. ④Check if the inside of refrigerant piping is not clogged.
	4 blinking	Abnormality of pipe temperature	P8	 Check if indoor thermistors (TH2 and TH5) are not disconnected from holder. Check if stop valve is open. Check converse connection of extension pipe. (on plural units connection) Check if indoor/outdoor connecting wire is connected correctly. (on plural units connection)
	5 blinking	Abnormality of Indoor controller board	Fb	①Replace indoor controller board.
		Abnormality of remote controller board	E1, E2	①Replace the remote controller.

*1. Error code displayed on remote controller. Error codes given in () are not displayed on remote controller.

IX. Monitoring the Operation Data by the Remote Controller (for Mr. SLIM PUHZ series)

1. How to "Monitor the Operation Data"

Turn on the [Monitoring the operation data]



(1) Press the TEST button for 3 seconds so that [Maintenance mode] appears on the screen (at (A)).

- (2) Press the CHECK button for 3 seconds to switch to [Maintenance monitor].
 - Note) It is not possible to switch to [Maintenance monitor] during data request in maintenance mode (i.e., while "----" is blinking), since no buttons are operative.
- Operating the service inspection monitor
- $[\mbox{---}]$ appears on the screen (at $\ensuremath{\mathbb{O}})$ when [Maintenance monitor] is activated.
- (The display (at $\ensuremath{\mathbb{O}}$) now allows you to set a request code No.)
- (3) Press the [TEMP] buttons (\bigcirc and \bigcirc) to select the desired refrigerant address.

[Screen ®]	\rightarrow 00 \leftrightarrow		· /5 🗲
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- (4) Press the [CLOCK] buttons (\bigcirc) and \bigcirc) to set the desired request code No.
- (5) Press the (FILTER) button to perform data request.

(The requested data will be displayed at [©] in the same way as in maintenance mode.)

Data collected during operation of the remote controller will be displayed. The collected data such as temperature data will not be updated automatically even if the data changes. To display the updated data, carry out step (4) again.

- Canceling the Monitoring the operation data
- (6) While [Maintenance monitor] is displayed, press the CHECK button for 3 seconds to return to maintenance mode.

(7) To return to normal mode, press the ON/OFF button.

2. Request Code List

* Certain indoor/outdoor combinations do not have the request code function; therefore, no request codes are displayed.

				1
de				
t co		Description		
les	Request content	(Display range)	Unit	Remarks
Request code				
0	Operation state	Refer to 2-1. Detail Contents in Request Code.		
1	Compressor-Operating current (rms)	0 - 50	A	
2	Compressor-Accumulated operating time	0 – 9999	10 hours	
3	Compressor-Number of operation times	0 – 9999	100 times	
4	Discharge temperature (TH4)	3 – 217	°C	
5	Outdoor unit - Liquid pipe 1 temperature (TH3)	-40 - 90	°C	
6	Outdoor unit - Liquid pipe 2 temperature	-40 - 90	°C	
7	Outdoor unit-2-phase pipe temperature (TH6)	-39 – 88	°C	
8	Outdoor unit-Suction pipe temperature (TH32)	-39 – 88	°C	PUHZ-HRP type
9	Outdoor unit-Outside air temperature (TH7)	-39 – 88	°C	
10	Outdoor unit-Heatsink temperature (TH8)	-40 - 200	°C	
11				
12	Discharge superheat (SHd)	0 – 255	C	
13	Sub-cool (SC)	0 – 130	°C	
14				
15				
16	Compressor-Operating frequency	0 – 255	Hz	
17	Compressor-Target operating frequency	0 – 255	Hz	
18	Outdoor unit-Fan output step	0 – 10	Step	
19	Outdoor unit-Fan 1 speed	0 – 9999	rpm	
13	(Only for air conditioners with DC fan motor)	0 - 3333	ipin	
20	Outdoor unit-Fan 2 speed	0 – 9999	rom	"0" is displayed if the air conditioner is a single-fan
20	(Only for air conditioners with DC fan motor)	0 - 9999	rpm	type.
21				
22	LEV (A) opening	0 – 500	Pulses	
23	LEV (B) opening	0 - 500	Pulses	
24	LEV (C) opening	0 – 500	Pulses	
25	Primary current	0 - 50	А	
26	DC bus voltage	180 – 370	V	
27				
28				
29	Number of connected indoor units	0-4	Units	
30	Indoor unit-Setting temperature	17 – 30	°C	
31	Indoor unit-Intake air temperature <measured by="" thermostat=""></measured>	8 – 39	°C	
	Indoor unit-Intake air temperature (Unit No. 1)	8 – 39		"0"is displayed if the target unit is not present.
32	<heat correction="" mode-4-deg=""></heat>		C	
	Indoor unit-Intake air temperature (Unit No. 2)	8 – 39	0.5	
33	<heat correction="" mode-4-deg=""></heat>		C	†
	Indoor unit-Intake air temperature (Unit No. 3)	8 – 39		
34	<heat correction="" mode-4-deg=""></heat>		C	1
	Indoor unit-Intake air temperature (Unit No. 4)	8 – 39		
35	<heat correction="" mode-4-deg=""></heat>		°C	↑
36				
37	Indoor unit - Liquid pipe temperature (Unit No. 1)	-39 – 88	°C	"0" is displayed if the target unit is not present.
38	Indoor unit - Liquid pipe temperature (Unit No. 1)	-39 - 88		↑ Is displayed if the target unit is not present.
39	Indoor unit - Liquid pipe temperature (Unit No. 2)	-39 - 88	 ຕ	↑ ↑
39 40	Indoor unit - Liquid pipe temperature (Unit No. 3) Indoor unit - Liquid pipe temperature (Unit No. 4)	-39 - 88	 ຕ	
40			C	↑
	Indeer unit Cond /Eva nine temperature (Unit No. 4)	20 88	°C	"0" is displayed if the target unit is not present
42	Indoor unit-Cond./Eva. pipe temperature (Unit No. 1)	-39 - 88	ິ ຕ	"0" is displayed if the target unit is not present.
43	Indoor unit-Cond./Eva. pipe temperature (Unit No. 2)	-39 - 88		<u>↑</u>
44	Indoor unit-Cond./Eva. pipe temperature (Unit No. 3)	-39 - 88	<u>ີ</u>	↑
45	Indoor unit-Cond./Eva. pipe temperature (Unit No. 4)	-39 – 88	°C	↑
46				
47				
48	Thermostat ON operating time	0 - 999	Minutes	
49	Test run elapsed time	0 – 120	Minutes	← Not possible to activate maintenance mode during the test run.

Begins in the section of the					
60 Industry unit Control statio Adv 0.21 DeadConversion Research Dob	Request code	Request content		Unit	Remarks
10 Diday unit. Control statie Refr = 3.1 back/ control Resput Code					
Sector	50	Indoor unit-Control state	Refer to 2-1. Detail Contents in Request Code.	-	
50 Outdoor unit-Am control attain Network-10 back/control information/sequed/cost	51	Outdoor unit-Control state	Refer to 2-1. Detail Contents in Request Code.	-	
50 Outdoor unit-Am control attain Network-10 back/control information/sequed/cost	52	Compressor-Frequency control state	Refer to 2-1. Detail Contents in Request Code.	_	
54 Advance output statuti Refer as 2-1 Decal Contents in Request Costs 55 Error content (UP) Ref rad 2-1 Decal Contents in Request Costs 56 Even content (UP) Ref rad 2-1 Decal Contents in Request Costs 57 58 Bignal transmission demand capacity 0 - 255 - 1 Decal Contents in Request Costs 51 Cutteral demand capacity 0 - 255 - 1 Decal Contents in Request Costs 52 External input state (altert mode, etc.) Ref rad -1 Decal Contents in Request Costs 53 External input state (altert mode, etc.) Ref rad -1 Decal Contents in Request Costs 54 External input state (altert mode, etc.) Ref rad -1 Decal Contents in Request Costs 55 Error mode (altert mode, etc.) Ref rad -1 Decal Contents in Request Costs 66 76 Outdor unit-Capacity setting (altertar) Ref rad -1 Decal Contents in Request Costs 77 Outdor unit-Capacity setting (altertar) Ref rad -1 Decal Contents in Request Costs 77 Outdor unit-Capacity setting (altertar) Ref rad -1 Decal Contents in Request Costs 78 Outdor unit-SWY setting (altertar)					
58 Encounter (U0) Pader to 2-1 Deal Contents in Request Code					
96 Image: Section of the sectin of the section of the section of the section of the section of t				-	
97 Image: Second seco	55	Error content (U9)	Refer to 2-1. Detail Contents in Request Code.	-	
98 Instrument Part of the second of the sec	56				
98 memory of the second s	57				
98 memory of the second s	58				
60 Sympatrixesimilian and capacity 0 – 255 % 61 Control demand capacity Refer 0x1 Deal Contents in Request Code 63 External input state (alter mode, etc.) Refer 0x1 Deal Contents in Request Code 64					
1 Contract demand capacity Refer to 2-1 Deal Contents Request Code.					
62 External input state (silent mode, etc.) Peter to 2-1 Denia Contentian Request Code. - 63 - - - 64 - - - 65 - - - - 66 - - - - 67 - - - - 68 - - - - 69 - - - - 70 Outdoor unit-Setting information Refr to 2-1 Denia Contentian Request Code. - 71 Outdoor unit-SW1 setting information Refr to 2-1 Denia Contentian Request Code. - 71 Outdoor unit-SW1 setting information Refr to 2-1 Denia Contentian Request Code. - 72 Outdoor unit-SW1 setting information Refr to 2-1 Denia Contentian Request Code. - 73 Outdoor unit-SW1 setting information Refr to 2-1 Denia Contentian Request Code. - 74 Outdoor unit-SW1 setting information Refr to 2-1 Denia Contentian Request Code. - 74 Outdoor unit-SW1 setting inform	60	Signal transmission demand capacity	0 – 255	%	
63 main set of the set of	61	Contact demand capacity	Refer to 2-1. Detail Contents in Request Code.	-	
63 main set of the set of	62	External input state (silent mode, etc.)	Refer to 2-1. Detail Contents in Request Code.	-	
64 Instrumentation Instrumentation 65 Instrumentation Instrumentation 67 Instrumentation Instrumentation 68 Instrumentation Instrumentation 69 Instrumentation Instrumentation 70 Outdoor unit-Capacity setting display Refer to 2-1 Detail Contents in Request Code. - 71 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 71 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 72 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 73 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 74 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 74 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 75 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 74 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 76 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. - 76 Outdoor unit-SW1	63				
66 Instrumentary and the second sec					
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67 Include Include Include 88 Include Include Include 70 Outdoor unit-Setting information Refer to 2-1. Detail Contents in Request Cods. - 73 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 74 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 74 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 75 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 76 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 77 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 78 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 80 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 81 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 82 Outdoor unit-SWI setting information Refer to 2-1. Detail Contents in Request Cods. - 83 Information Request Cods. - - 84 M-NET adapter	65				
68 Address of the second sec	66				
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89 Provide Computer Version Information Refer to 2-1 Detail Contents in Request Code - 73 Outdoor unit-Setting information Refer to 2-1 Detail Contents in Request Code - 74 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 74 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 75 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 76 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 76 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 77 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 78 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 80 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 81 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 82 Outdoor unit-SWI setting information Refer to 2-1 Detail Contents in Request Code - 84 M-NET adapter connection (presence/absence) "0000": Not connected - 90 Outdoor unit-Microcomputer vers					
70 Outdoor unit-Setting display Refer to 2-1 Detail Contents in Request Code. 71 Outdoor unit-Setting information Refer to 2-1 Detail Contents in Request Code. 73 Outdoor unit-SW1 setting information Refer to 2-1 Detail Contents in Request Code. 74 Outdoor unit-SW2 setting information Refer to 2-1 Detail Contents in Request Code. 74 Outdoor unit-SW5 setting information Refer to 2-1 Detail Contents in Request Code. 75 Outdoor unit-SW5 setting information Refer to 2-1 Detail Contents in Request Code. 74 Outdoor unit-SW5 setting information Refer to 2-1 Detail Contents in Request Code. 76 Outdoor unit-SW5 setting information Refer to 2-1 Detail Contents in Request Code. 79 Outdoor unit-SW8 setting information Refer to 2-1 Detail Contents in Request Code. 81 Outdoor unit-SW8 setting information Refer to 2-1 Detail Contents in Request Code. 82 Outdoor unit-SW8 setting information Refer to 2-1 Detail Contents in Request Code. 83 84 M-NET adapter connection (presence/absence) '0000': Not washed '000': Not w					
71 Outdoor unit-Setting information Refer to 2-1. Detail Contents in Request Code. - 72 Outdoor unit-SW1 setting information Refer to 2-1. Detail Contents in Request Code. - 73 Outdoor unit-SW2 setting information Refer to 2-1. Detail Contents in Request Code. - 74 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 74 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 75 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 75 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 76 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 76 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 77 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 78 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 78 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 79 Outdoor unit-SW3 setting information Refer to 2-1. Detail Contents in Request Code. - 79 <td></td> <td></td> <td></td> <td></td> <td></td>					
12 12 12 73 Outdoor unit-SW1 setting information Refer to 2-1.Detail Contents in Request Code. - 75 Outdoor unit-SW2 setting information Refer to 2-1.Detail Contents in Request Code. - 76 Outdoor unit-SW3 setting information Refer to 2-1.Detail Contents in Request Code. - 79 Outdoor unit-SW6 setting information Refer to 2-1.Detail Contents in Request Code. - 79 Outdoor unit-SW8 setting information Refer to 2-1.Detail Contents in Request Code. - 70 Outdoor unit-SW8 setting information Refer to 2-1.Detail Contents in Request Code. - 70 Outdoor unit-SW8 setting information Refer to 2-1.Detail Contents in Request Code. - 80 Outdoor unit-SW8 setting information Refer to 2-1.Detail Contents in Request Code. - 81 Outdoor unit-SW8 setting information Refer to 2-1.Detail Contents in Request Code. - 82 Outdoor unit-SW8 setting information Refer to 2-1.Detail Contents in Request Code. - 83 - - - - 84 M-NET adapter connection (presence/absence) '0000': Not connected - - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 - '0501'' Ver 91 Outdoo	70	Outdoor unit-Capacity setting display	Refer to 2-1. Detail Contents in Request Code.	-	
73 Outdoor unit-SW1 setting information Refer to 2.1 Detail Contents in Request Code. - 74 Outdoor unit-SW2 setting information Refer to 2.1 Detail Contents in Request Code. - 76 Outdoor unit-SW3 setting information Refer to 2.1 Detail Contents in Request Code. - 70 Outdoor unit-SW3 setting information Refer to 2.1 Detail Contents in Request Code. - 70 Outdoor unit-SW3 setting information Refer to 2.1 Detail Contents in Request Code. - 71 Outdoor unit-SW3 setting information Refer to 2.1 Detail Contents in Request Code. - 81 Outdoor unit-SW3 setting information Refer to 2.1 Detail Contents in Request Code. - 82 Outdoor unit-SW3 setting information Refer to 2.1 Detail Contents in Request Code. - 83 - - - - 84 M-NET adapter connection (presence/absence) '0000': Not connected - - 85 - - - - - 86 - - - - - 87 - - - - - 88 - - - - - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 + Vos01' Ver	71	Outdoor unit-Setting information	Refer to 2-1. Detail Contents in Request Code.	-	
74 Dutdoor unit-SW2 setting information Refer to 2-1. Detail Contents in Request Code. - 75 Outdoor unit-SW4 setting information Refer to 2-1. Detail Contents in Request Code. - 77 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 78 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 79 Outdoor unit-SW7 setting information Refer to 2-1. Detail Contents in Request Code. - 80 Outdoor unit-SW7 setting information Refer to 2-1. Detail Contents in Request Code. - 81 Outdoor unit-SW10 setting information Refer to 2-1. Detail Contents in Request Code. - 82 Outdoor unit-SW10 setting information Refer to 2-1. Detail Contents in Request Code. - 83 6 - - - 84 M-NET adapter connection (presence/absence) '0000': Not connected '0001': Connected '0001': Washed' - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 → '0501'' Ver 91 Outdoor unit-Microcomputer version information (sub-No). Examples) Ver 5.01 A000 → 'A000' - 92 - -	72				
74 Dutdoor unit-SW2 setting information Refer to 2-1. Detail Contents in Request Code. - 75 Outdoor unit-SW4 setting information Refer to 2-1. Detail Contents in Request Code. - 77 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 78 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 79 Outdoor unit-SW7 setting information Refer to 2-1. Detail Contents in Request Code. - 80 Outdoor unit-SW7 setting information Refer to 2-1. Detail Contents in Request Code. - 81 Outdoor unit-SW10 setting information Refer to 2-1. Detail Contents in Request Code. - 82 Outdoor unit-SW10 setting information Refer to 2-1. Detail Contents in Request Code. - 83 6 - - - 84 M-NET adapter connection (presence/absence) '0000': Not connected '0001': Connected '0001': Washed' - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 → '0501'' Ver 91 Outdoor unit-Microcomputer version information (sub-No). Examples) Ver 5.01 A000 → 'A000' - 92 - -	73	Outdoor unit-SW1 setting information	Refer to 2-1. Detail Contents in Request Code.	_	
76 Utdoor unit-SW setting information Refer to 2-1. Detail Contents in Request Code. - 78 Outdoor unit-SW setting information Refer to 2-1. Detail Contents in Request Code. - 79 Outdoor unit-SW setting information Refer to 2-1. Detail Contents in Request Code. - 79 Outdoor unit-SW setting information Refer to 2-1. Detail Contents in Request Code. - 81 Outdoor unit-SW setting information Refer to 2-1. Detail Contents in Request Code. - 82 Outdoor unit-SW setting information Refer to 2-1. Detail Contents in Request Code. - 83 - - - - 84 M-NET adapter connection (presence/absence) '0000': Not connected '0001': Connected '0001': Connected '0001': Connected '0001': Connected '0001': Weshed '0000': Not washed '0001': Weshed '0001': Weshed '0000': Adveshed '0000': Weshed '0000': Weshed '0000': Weshed '0000': Weshed '0000': Weshed '0000': Weshed '0000': Adveshed	H				
76 Outdoor unit-SW4 setting information Refer to 2-1. Detail Contents in Request Code. - 77 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 79 Outdoor unit-SW7 setting information Refer to 2-1. Detail Contents in Request Code. - 79 Outdoor unit-SW8 setting information Refer to 2-1. Detail Contents in Request Code. - 80 Outdoor unit-SW9 setting information Refer to 2-1. Detail Contents in Request Code. - 81 Outdoor unit-SW9 setting information Refer to 2-1. Detail Contents in Request Code. - 82 Outdoor unit-SW9 setting information Refer to 2-1. Detail Contents in Request Code. - 83 '0000': Not connected - - 84 M-NET adapter connection (presence/absence) '0000': Not washed '0001': Washed '0000': Not washed '0001': Washed '0000': Not washed '0001': Washed '0000': Washed '0001': Washed '0000': Washed '0000': Washed '0000': Washed '0000'			Telef 102-1.Detail Contents in Tequesi Code.	_	
77 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 78 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 90 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 81 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 82 Outdoor unit-SW5 setting information Refer to 2-1. Detail Contents in Request Code. - 83	75				
78 Outdoor unit-SW6 setting information Refer to 21.0 tabil Contents in Request Code. - 80 Outdoor unit-SW9 setting information Refer to 21.0 tabil Contents in Request Code. - 81 Outdoor unit-SW9 setting information Refer to 21.0 tabil Contents in Request Code. - 82 Outdoor unit-SW10 setting information Refer to 21.0 tabil Contents in Request Code. - 83	76	Outdoor unit-SW4 setting information	Refer to 2-1. Detail Contents in Request Code.	-	
79 Outdoor unit-SW7 setting information Refer to 21. Detail Contents in Request Code. - 80 Outdoor unit-SW9 setting information Refer to 21. Detail Contents in Request Code. - 81 Outdoor unit-SW10 setting information Refer to 21. Detail Contents in Request Code. - 83 Control or unit-SW10 setting information Refer to 21. Detail Contents in Request Code. - 84 M-NET adapter connection (presence/absence) '0000': Not connected - 86 - - - 87 - - - 88 - - - 89 Display of execution of replace/wash operation '0000': Not washed 'o001': Washed '- - 90 Outdoor unit-Microcomputer version information (sub No.) Examples) Ver 5.01 → '0501'' Ver 91 Outdoor unit-Microcomputer version information (sub No.) Examples) Ver 5.01 A000 → 'A000' - 92 - - - - 93 - - - - 94 - - - - 95 - - - -	77	Outdoor unit-SW5 setting information	Refer to 2-1. Detail Contents in Request Code.	-	
79 Outdoor unit-SW7 setting information Refer to 21. Detail Contents in Request Code. - 80 Outdoor unit-SW9 setting information Refer to 21. Detail Contents in Request Code. - 81 Outdoor unit-SW10 setting information Refer to 21. Detail Contents in Request Code. - 83 Control or unit-SW10 setting information Refer to 21. Detail Contents in Request Code. - 84 M-NET adapter connection (presence/absence) '0000': Not connected - 86 - - - 87 - - - 88 - - - 89 Display of execution of replace/wash operation '0000': Not washed 'o001': Washed '- - 90 Outdoor unit-Microcomputer version information (sub No.) Examples) Ver 5.01 → '0501'' Ver 91 Outdoor unit-Microcomputer version information (sub No.) Examples) Ver 5.01 A000 → 'A000' - 92 - - - - 93 - - - - 94 - - - - 95 - - - -	78		Refer to 2-1 Detail Contents in Request Code	_	
80 Outdoor unit-SW8 setting information Refer to 2-1. Detail Contents in Request Code	\vdash				
81 Outdoor unit-SW9 setting information Refer to 2-1.DetailContents in Request Code.					
82 Outdoor unit-SW10 setting information Refer to 2-1 DetailContents in Request Code.	80			-	
100000* ON Or of outing monitoring 00000*: Not connected - 84 M-NET adapter connection (presence/absence) '0000*: Not connected - 85 0001*: Connected - 86 - - 87 - - 88 - - 89 Display of execution of replace/wash operation '0000*: Not washed '0001*: Washed - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 -> '0501* Ver 91 Outdoor unit-Microcomputer version information (sub No.) existing information (displayed after version information) - 92 - - - - 93 - - - 94 - - - 95 - - - 96 - - - 97 - - - 98 - - - 99 - - - 100 Outdoor unit - Error postponement history 1 (latest) Displays postponement code. [** is displayed if no postponement code. [*-* is displayed if no postponement	81	Outdoor unit-SW9 setting information	Refer to 2-1.Detail Contents in Request Code.	-	
84 M-NET adapter connection (presence/absence) "0000": Not connected "0001": Connected - 85 - - 86 - - 87 - - 88 - - 89 Display of execution of replace/wash operation '0000": Not washed '0001": Washed - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 -> '0501" Ver 91 Outdoor unit-Microcomputer version information (sub No.) Examples) Ver 5.01 A000 -> "A000" - - 92 - - - - 93 - - - - 94 - - - - 95 - - - - 96 - - - - 97 - - - - 98 - - - - 99 - - - - 100 Outdoor unit - Error postponement history 1 (latest) Displays postponement code. ("" is displayed if no postponement code is present) Code	82	Outdoor unit-SW10 setting information	Refer to 2-1. Detail Contents in Request Code.	-	
84 M-NET adapter connection (presence/absence) "0000": Not connected "0001": Connected - 85 - - 86 - - 87 - - 88 - - 89 Display of execution of replace/wash operation '0000": Not washed '0001": Washed - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 -> '0501" Ver 91 Outdoor unit-Microcomputer version information (sub No.) Examples) Ver 5.01 A000 -> "A000" - - 92 - - - - 93 - - - - 94 - - - - 95 - - - - 96 - - - - 97 - - - - 98 - - - - 99 - - - - 100 Outdoor unit - Error postponement history 1 (latest) Displays postponement code. ("" is displayed if no postponement code is present) Code	83				
86		M-NET adapter connection (presence/absence)		-	
86	85				
87					
88 - - 89 Display of execution of replace/wash operation "0000": Not washed "0001": Washed - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 → "0501" Ver 91 Outdoor unit-Microcomputer version information (sub No.) Auxiliary information (displayed after version information) - 92 - - - 93 - - - 94 - - - 95 - - - 96 - - - 97 - - - - 98 - - - - 99 - - - - 100 Outdoor unit - Error postponement history 1 (latest) Displays postponement code. ("" is displayed if no postponement code is present) Code 101 Outdoor unit - Error postponement history 2 (previous) Displays postponement code is present) Code 102 Outdoor unit - Error postponement history 3 (last hut ope) Displays postponement code is present) Code					
89 Display of execution of replace/wash operation "0000": Not washed "0001": Washed - 90 Outdoor unit-Microcomputer version information Examples) Ver 5.01 → "0501" Ver 91 Outdoor unit-Microcomputer version information (sub No.) Auxiliary information (displayed after version information) - 92 - - - 93 - - - 94 - - - 95 - - - 96 - - - 97 - - - 98 - - - 99 - - - 100 Outdoor unit - Error postponement history 1 (latest) Displays postponement code. (** is displayed if no postponement code is present) Code 101 Outdoor unit - Error postponement history 2 (previous) Displays postponement code. (** is displayed if no postponement code. (** is displayed if no postponement code. (** is Code 102 Outdoor unit - Error postponement bistory 3 (last but one) Displays postponement code. (** is Code	87				
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102 Outdoor unit - Error postponement history 3 (last but one)					
	102	Outdoor unit - Error postponement history 3 (last but one)		Code	

Request code	Request content	Description (Display range)	Unit	Remarks
103	Error history 1 (latest)	Displays error history. ("" is displayed if no history is present.)	Code	
104	Error history 2 (second to last)	Displays error history. ("" is displayed if no history is present.)	Code	
105	Error history 3 (third to last)	Displays error history. ("" is displayed if no history is present.)	Code	
106	Abnormal thermistor display (TH3/TH6/TH7/TH8)	3 : TH3 6 : TH6 7 : TH7 8 : TH8 0 : No thermistor error	Sensor number	
107	Operation mode at time of error	Displayed in the same way as request code "0".	-	
108	Compressor-Operating current at time of error	0 - 50	А	
109	Compressor-Accumulated operating time at time of error	0 – 9999	10 hours	
110	Compressor-Number of operation times at time of error	0 – 9999	100 times	
111	Discharge temperature at time of error	3 – 217	°C	
112	Outdoor unit - Liquid pipe 1 temperature (TH3) at time of error	-40 - 90	°C	
-	Outdoor unit - Liquid pipe 1 temperature (1113) at time of error		ື ເ	
113		-40 - 90		
114	Outdoor unit-2-phase pipe temperature (TH6) at time of error	-39 – 88	°C	
115			-	
116	Outdoor unit-Outside air temperature (TH7) at time of error	-39 – 88	Ĵ	
117	Outdoor unit-Heatsink temperature (TH8) at time of error	-40 - 200	°C	
118	Discharge superheat (SHd) at time of error	0 – 255	C	
119	Sub-cool (SC) at time of error	0 – 130	°C	
120		0 – 255	Hz	
	Outdoor unit at time of error			
121	Fan output step	0 – 10	Step	
122	Outdoor unit at time of error	0 – 9999	rpm	
	• Fan 1 speed (Only for air conditioners with DC fan)			
123	Outdoor unit at time of error	0 – 9999	rpm	"0" is displayed if the air conditioner is a single-
	Fan 2 speed (Only for air conditioners with DC fan)			fan type.
124				
125	LEV (A) opening at time of error	0 - 500	Pulses	
126	LEV (B) opening at time of error	0 – 500	Pulses	
127				
128				
129				
130	Thermostat ON time until operation stops due to error	0 – 999	Minutes	
130		0 - 333	Williace3	
132	Indoor - Liquid pipe temperature at time of error	-39 – 88	ĉ	Average value of all indoor units is displayed if the air condi- tioner consists of two or more indoor units (twin, triple, quad).
133	Indoor-2-phase pipe temperature at time of error	-39 – 88	°C	Average value of all indoor units is displayed if the air condi- tioner consists of two or more indoor units (twin, triple, quad).
134	Indoor at time of error	20 89		
	Intake air temperature < Thermostat judge temperature >	-39 – 88	Ĉ	
135	Intake air temperature < Thermostat judge temperature >	-39 - 66	Ċ	
135 136	Intake air temperature < Thermostat judge temperature >	-39 - 66	С	
136	Intake air temperature < Thermostat judge temperature >	-39 - 00	C	
136 137	Intake air temperature < Thermostat judge temperature >	-39 - 00	С	
136 137 138	Intake air temperature < Thermostat judge temperature >	-39 - 00	C	
136 137 138 139	Intake air temperature < Thermostat judge temperature >	-39 - 00	C	
136 137 138 139 140	Intake air temperature < Thermostat judge temperature >	-39 - 00		
136 137 138 139 140 ~	Intake air temperature <thermostat judge="" temperature=""></thermostat>	-39 - 00	C	
136 137 138 139 140 ~ 146	Intake air temperature <thermostat judge="" temperature=""></thermostat>	-39 - 00		
136 137 138 139 140 ~	Intake air temperature <thermostat judge="" temperature=""></thermostat>	-39 - 00		
136 137 138 139 140 ~ 146	Intake air temperature <thermostat judge="" temperature=""></thermostat>	-39 - 00		
136 137 138 139 140 ~ 146 147	Intake air temperature <thermostat judge="" temperature=""></thermostat>			
136 137 138 139 140 ~ 146 147 148	Intake air temperature <thermostat judge="" temperature=""></thermostat>	-39 - 88	C	
136 137 138 139 140 ~ 146 147 148 149				
136 137 138 139 140 ~ 146 147 148 149 150 151	Indoor-Actual intake air temperature	-39 – 88	°C	

Request code	Request content (Display range)		Unit	Remarks
153				
154	Indoor-Fan operating time (After filter is reset)	0 – 9999	1 hour	
155	Indoor-Total operating time (Fan motor ON time)	0 – 9999	10 hours	
156				
157	Indoor fan output value (Sj value)	0 – 255 Fan control data	-	For indoor fan phase control
158	Indoor fan output value (Pulsation ON/OFF)	"00 **" "**" indicates fan control data.	-	For indoor fan pulsation control
159	Indoor fan output value (duty value)	"00 **" "**" indicates fan control data.	-	For indoor DC brushless motor control
160				
161				
162	Indoor unit-Model setting information	Refer to 2-1. Detail Contents in Request Code.	-	
163	Indoor unit-Capacity setting information	Refer to 2-1. Detail Contents in Request Code.	-	
164	Indoor unit-SW3 information	Undefined	-	
165	Wireless pair No. (indoor control board side) setting	Refer to 2-1. Detail Contents in Request Code.	-	
166	Indoor unit-SW5 information	Undefined	-	
167				
~				
189				
190	Indoor unit-Microcomputer version information	Examples) Ver 5.01 → "0501"	Ver	
191	Indoor unit-Microcomputer version information (sub No.)	Auxiliary information (displayed after version information)	_	
		Examples) Ver 5.01 A000 \rightarrow "A000"		
192				
~				
764				
765	Stable operation (Heat mode)	This request code is not provided to c	ollect data. It is	s used to fix the operation state.
766	Stable operation (Cool mode)	This request code is not provided to c	ollect data. It is	s used to fix the operation state.
767	Stable operation cancellation	This request code is not provided to confixed by request codes "765" and "76		used to cancel the operation state that has been

2-1. Detail Contents in Request Code



Relay output state

Example) Request code "004" Discharge temperature 69°C Refrigerant address "00"

B: Refrigerant address C: Data display area

D: Request code display area

[Operation state] (Request code "0")



Display	Power currently supplied to compressor	Compressor	Four-way valve	Solenoid valve
0	-	-	-	-
1				ON
2			ON	
3			ON	ON
4		ON		
5		ON		ON
6		ON	ON	
7		ON	ON	ON
8	ON			
А	ON		ON	
A	UN		UN	

Operation mode

Display	Operation mode
0	STOP • FAN
С	COOL • DRY
Н	HEAT
d	Defrost

[Indoor unit - Control state] (Request code : " 50")

Data display



Display	State
0	Normal
1	Preparing for heat operation.
2	_
3	-
4	Heater is ON.
5	Anti-freeze protection is ON.
6	Overheat protection is ON.
7	Requesting compressor to turn OFF.
F	There are no corresponding units.

Frequency control state 2

[Outdoor unit - Control state] (Request code "51")

Data display		ıy	State	
0	0	0	0	Normal
0	0	0	1	Preparing for heat operation.
0	0	0	2	Defrost

[Compressor - Frequency control state] (Request code "52")

Data display

0	0	*	*	
				Frequency control state 2

Frequency control state ①

Display	Current limit control
0	No current limit
1	Primary current limit control is ON.
2	Secondary current limit control is ON.

Display	Discharge temperature	Condensation temperature	Anti-freeze	Heat sink temperature
	overheat prevention	overheat prevention	protection control	overheat prevention
0				
1	Controlled			
2		Controlled		
3	Controlled	Controlled		
4			Controlled	
5	Controlled		Controlled	
6		Controlled	Controlled	
7	Controlled	Controlled	Controlled	
8				Controlled
9	Controlled			Controlled
А		Controlled		Controlled
b	Controlled	Controlled		Controlled
С			Controlled	Controlled
d	Controlled		Controlled	Controlled
E		Controlled	Controlled	Controlled
F	Controlled	Controlled	Controlled	Controlled

[Fan control state] (Request code : " 53 ")

Data display

0 0 * *

Fan step correction value by heat sink temperature overheat prevention control

Fan step correction value by cool condensation temperature overheat prevention control

Display	Correction value
- (minus)	- 1
0	0
1	+1
2	+2

[Actuator output state] (Request code :"54")

Data display 0 0 * * Actuator output state ① Actuator output state 2

Actuator output state ①

Display	SV1	Four-way valve	Compressor	Compressor is warming up
0				
1	ON			
2		ON		
23	ON	ON		
4			ON	
5	ON		ON	
6		ON	ON	
7	ON	ON	ON	
8				ON
9	ON			ON
А		ON		ON
b	ON	ON		ON
С			ON	ON
d	ON		ON	ON
E		ON	ON	ON
F	ON	ON	ON	ON

Actuator output state 2

Display	52C	SV2	SS
0			
1	ON		
2		ON	
3	ON	ON	
4			ON
5	ON		ON
6		ON	ON
7	ON	ON	ON

[Error content (U9)] (Request code : "55")



Error conte	nt ①			• : Detected
Display	Overvoltage	Undervoltage	L1-phase	Power synchronizing
Display	error	error	open error	signal error
0				
1	•			
2		•		
3	•			
4			•	
5	•			
6				
7			•	
8				
9				
А				
b		•		
С				
d	•		•	
E				
F			•	

Error cont	•: Detected	
Display	Converter Fo error	PAM error
0		
1		

•

2 3 •

[Contact demand capacity] (Request code "61")

Data display	0	0	0	*	
					— Setting content

Setting content

Display	Setting value	Set	ting
		SW7-1	SW7-2
0	0%		
1	50%	ON	
2	75%		ON
3	100%	ON	ON

[External input state] (Request code "62")



____ Input state

			: Input present
Contact demand	Silent mode	Spare 1	Spare 2
input	input	input	input
	•		
	•		
	•		
	•		
	•		
	•		
	•	•	•
	•		•

[Outdoor unit -- Capacity setting display] (Request code : "70")

Data display	Capacity
9	35
10	50
11	60
14	71
20	100
25	125
28	140
40	170/200
50	250

[Outdoor unit - Setting information] (Request code "71")

*

Data display 0 0

*

-Setting information ①

-Setting information 2

Setting	info	rmation	1

Display	Defrost mode
0	Standard
1	For high humidity

Setting information 2

Display	Single-/	Heat pump/	
	three-phase	cooling only	
0	Single-phase	Heat pump	
1	Single-phase	Cooling only	
2	Three-phase	Heat pump	
3	iniee-phase	Cooling only	

[Outdoor unit switch setting display (SW1 to SW10, except SW3)] Request codes: 73 to 820: Swich OFF1: Swich ON0: Swich OFF1: Swich ON

	vich (ch O	
		SW2,		1		Data display
1	2	3	4	5	6	
0	0	0	0	0	0	00 00
1	0	0	0	0	0	00 01
0	1	0	0	0	0	00 02
1	1	0	0	0	0	00 03
0	0	1	0	0	0	00 04
1	0	1	0	0	0	00 05
0	1	1	0	0	0	00 06
1	1	1	0	0	0	00 07
0	0	0	1	0	0	00 08
1	0	0	1	0	0	00 09
0	1	0	1	0	0	00 00
1	1	0	1	0	0	00 0h
0	0	1	1	0	0	00 00 00 0C
1	-	1	1	0	0	00 00 00 0d
	0					
0	1	1	1	0	0	00 0E
1	1	1	1	0	0	00 0F
0	0	0	0	1	0	00 10
1	0	0	0	1	0	00 11
0	1	0	0	1	0	00 12
1	1	0	0	1	0	00 13
0	0	1	0	1	0	00 14
1	0	1	0	1	0	00 15
0	1	1	0	1	0	00 16
1	1	1	0	1	0	00 17
0	0	0	1	1	0	00 18
1	0	0	1	1	0	00 19
0	1	0	1	1	0	00 1A
1	1	0	1	1	0	00 1B
0	0	1	1	1	0	00 1C
1	0	1	1	1	0	00 1D
0	1	1	1	1	0	00 1E
1	1	1	1	1	0	00 1E
0	0	0	0	0	1	00 20
1	0	0	0	0	1	00 21
0	1	0	0	0	1	00 22
1	1	0	0	0	1	00 23
0	0	1	0	0	1	00 24
1	0	1	0	0	1	00 25
0	1	1	0	0	1	00 26
1	1	1	0	0	1	00 27
0	0	0	1	0	1	00 28
1	0	0	1	0	1	00 29
0	1	0	1	0	1	00 2A
1	1	0	1	0	1	00 2B
0	0	1	1	0	1	00 2C
1	0	1	1	0	1	00 2D
0	1	1	1	0	1	00 2E
1	1	1	1	0	1	00 2E
0	0	0	0	1	1	00 21
1	0	0	0	1	1	00 30
				1		
0	1	0	0		1	00 32
1	1	0	0	1	1	00 33
0	0	1	0	1	1	00 34
1	0	1	0	1	1	00 35
0	1	1	0	1	1	00 36
1	1	1	0	1	1	00 37
0	0	0	1	1	1	00 38
1	0	0	1	1	1	00 39
0	1	0	1	1	1	00 3A
1	1	0	1	1	1	00 3B
0	0	1	1	1	1	00 3C
1	0	1	1	1	1	00 3D
		1	1	1	1	00 3D
0	1					

0. 30	U. Swich OFF T. Swich ON				
	SW5			Data display	
1	2	3	4	Data display	
0	0	0	0	00 00	
1	0	0	0	00 01	
0	1	0	0	00 02	
1	1	0	0	00 03	
0	0	1	0	00 04	
1	0	1	0	00 05	
0	1	1	0	00 06	
1	1	1	0	00 07	
0	0	0	1	00 08	
1	0	0	1	00 09	
0	1	0	1	00 0A	
1	1	0	1	00 0b	
0	0	1	1	00 OC	
1	0	1	1	00 0d	
0	1	1	1	00 0E	
1	1	1	1	00 OF	

0: Swich OFF): Swich OFF 1: Swich ON	
	SW8		Data display
1	2	3	Data display
0	0	0	00 00
1	0	0	00 01
0	1	0	00 02
1	1	0	00 03
0	0	1	00 04
1	0	1	00 05
0	1	1	00 06
1	1	1	00 07

SW4, SW	/9, SW10	Data diaplay	
1	2	Data display	
0	0	00 00	
1	0	00 01	
0	1	00 02	
1	1	00 03	

[Indoor unit – Model setting information] (Request code : 162)





Display	Model setting state	Display	Model setting state
00	PSA-RP•GA, PSH-PGAH	20	
01		21	PKA-RP•FAL(2), PKH-P•FALH
02	PEAD-RP•EA(2)/GA, PEHD-P•EAH	22	PCA-RP•GA(2), PCH-P•GAH, PLA-RP•BA(2)
03	SEZ-KA•VA	23	
04		24	
05	SLZ-KA•VA(L)	25	
06	PCA-RP•HA	26	
07		27	
08		28	
09	PEA-RP400/500GA	29	
0A		2A	
0b	PEA-RP200/250GA	2b	PKA-RP•GAL, PKH-P•GALH
0C		2C	
0d		2d	
0E		2E	
0F		2F	PLA-RP•AA
10		30	
11	PEA-RP•EA	31	PLH-P•AAH
12	MEXZ-GA•VA(L)	32	
13		33	
14		34	
15		35	
16		36	PLA-RP•AA2
17		37	
18		38	
19		39	
1A		3A	
1b		3b	
1C		3C	
1d		3d	
1E		3E	
1F		3F	

[Indoor unit - Capacity setting information] (Request code 163)





Display	Capacity setting state	Display	Capacity setting state
00	12	10	112
01	16	11	125
02	22	12	140
03	25	13	
04	28	14	
05	32	15	
06	35, 36	16	
07	40	17	
08	45	18	
09	50	19	
0A	56	1A	
0b	63	1b	
0C	71	1C	
0d	80	1d	
0E	90	1E	
0F	100	1F	

[Wireless pair No. (indoor control board side) setting] (Request code 165)





— See the table on the right.

Display	Pair No. setting state				
00	No. 0				
01	No. 1 J41 disconnected				
02	No. 2 J42 disconnected				
03	No. 3 J41, J42 disconnected				

X. System Control (for Mr. SLIM)

■ VARIETY OF SYSTEM FUNCTION

System Name	System Diagram	Features	Parts Required in Addition to Standard System Components (Indoor/Outdoor Units, Remote Controller)
A.Remote control- ler operation (Standard)	Indoor unit Outdoor Remote unit Controller	There are 2 types of remote controllers: wired type and wireless type. Simultaneous twin, triple and quad units are counted as 1 unit, and the indoor units are started or stopped simultaneously.	<i></i>
B.Remote control- ler operation Use of 2 con- trollers enables operation of the air conditioner both from a distance and nearby.	* One of the wired remote con- trollers must be set as a sub remote controller.	Up to 2 remote controllers can be connected to one group. Simultaneous twin, triple and quad units are counted as 1 unit. Operation control by the latest command (last en- tered priority) Wired and wireless remote controllers can be com- bined as a pair.	Wired remote controller (addi- tional) (PAR-21MAA) For PKA type, use remote controller (PAR-21MAAT-E) * For models equipped with a terminal block.
C.Group control operation Use of 1 remote controller to con- trol multiple air conditioners with the same settings simultaneously. * Outdoor unit's re- frigerant address needs to be set.	Remote Controller	One group can consist of up to 16 indoor units, and they can be started sequentially by connecting the remote controller to them and assigning an address to each outdoor unit. Simultaneous twin, triple and quad units are counted as 1 unit. All the units belonging to the same group are oper- ated in the same mode, but thermostats can be turned ON/OFF individually for each outdoor unit. Up to 2 remote controllers can be connected.	For PKA type, use remote controller (PAR-21MAAT-E) * For models equipped with a terminal block.
D.Remote/local combined control operation Allows start/stop of the air condi- tioner from a dis- tance, and prohib- its/permits start/ stop from remote controllers.	Relay box	All the air conditioners can be turned ON/OFF collectively from a distance. Operation can be switched between the remote operat- ing panel and local controller. Operations (e.g., temperature adjustment, airflow, air- flow direction) except for start/stop operations can be performed even if operations from the local remote controller are prohibited. In the case of simultaneous twin, triple, quad units, connect the controller to one indoor unit only. If connected to 2 or more indoor units, an error may occur.(operation stop) Control by an external timer is possible by connecting it.	Remote ON/OFF adapter (PAC-SE55RA-E) Relay box (Part to be provided at your site) Remote operating panel (Part to be provided at your site)
E.Operation by external signal		Use of optional "remote ON/OFF adapter" enables remote control via relay. (Level signal)	Remote ON/OFF adapter (PAC-SE55RA-E)
F.Control by external signal and remote display	Adapter Indoor unit Indoor unit Remote Controller Remote display panel (operation, error)	Extraction of non-voltage contact output Use of optional "remote operation adapter" and "remote display panel" (Part to be provided at your site) provides non-voltage contact outputs of signals (operation, error) and operation/stop input function.	Remote operation adapter (PAC-SF40RM-E) Remote display panel (Part to be provided at your site)
control start/stop from a distance.		Extraction of DC12 V contact output Use of optional "Multiple remote controller adapter and "remote display panel" (Part to be provided at your site)provides DC12 V contact outputs of signals (operation, error) and operation/stop input function.	Multiple remote controller adapter (PAC-SA88HA) Remote display panel (Part to be provided at your site)

System Name	System Diagram	Features	Parts Required in Addition to Standard System Components (Indoor/Outdoor Units, Remote Controller)
G. Timer operation Enables control of start and stop. * For control by external timer, refer to Remote/ local combined control operation".		 Weekly timer: In addition to ON/OFF, up to 8 temperature patterns can be set for each day of the week. * Only one timer can be selected; the auto off, simple and weekly timers cannot be combined. Simple timer: Start and stop operations can each be performed once within 72 hours (can be set in 1-hour increments). Auto off timer: Operation is stopped when the preset time elapses following the start of operation. The time can be set from 30 minutes to 4 hours in 30-minute increments. * Only one timer can be selected; the simple and auto off timers cannot be combined. 	MA Remote controller (PAR-21MAA)
H.Interlock opera- tion with periph- eral equipment Enables control of Mitsubishi Lossnay ventilator by remote controller.	Lossnay ventilator Remote Controller	 Connecting a Lossnay ventilator and an indoor unit enables control of interlock/solo ventilation opera- tion and airflow. (Only the microcomputer type Lossnay ventilator can be used.) 	
I.Central control	<connection m-net="" system="" with=""> Outdoor unit unit unit Indoor unit Central controller, etc.</connection>	 Connecting the M-NET connection adapter to outdoor unit enables connection of MELANS system control- ler (for M-NET). When using A-control operation, the number of indoor units in a MELANS system is limited to the number of outdoor units. (Simultaneous twin, triple and quad units are counted as 1 unit.) Number of controlled outdoor units Central controller: 50 units Group remote controller (PAC-SC30GR): 16 units 	M-NET adapter (Option PARTS) Central controller (G-50A) Group remote controller (PAC-SC30GR), etc.
J.Demand control	Adaptor to input external demand signal Relay box Outdoor unit Remote Indoor unit Operating panel	• Demand control is available by external input. In this mode, power consumption is decreased within the range of usual 0-100%.	Adapter to input external demand signals. (PAC-SC36NA) Relay box (Part to be provided at your site) Remote operating panel (Part to be provided at your site)
K.Rotation	Main Sub Indoor Unit Unit Outdoor	 Rotation Main and sub unit operate alternately according to the interval of roration setting. Back-up When abnormality occurs while operation, it changes into operating the backup unit, and operation is continued. 2nd stage cut-in Number of operating units is determined according to the room temperature and set point. When room temperature becomes higher than set point, standby unit starts.(2 units operation) When room temperature falls below set point -4°C, standby unit stops.(1 unit operation) 	 This function is available when only 2 indoor units are connected to each PUHZ type outdoor unit. Application model Indoor unit PLA-RP • BA2/BA#2.UK PCA-RP • GA(2)#1/HA#1 PKA-RP • GAL#1/FAL(2)#1 PSA-RP • GA#1 PEAD-RP • EA(2)#1/GA#1

1. 1 Remote Controller (Standerd) Operation

1-1 1 Wired Remote Controller

(OC: Outdoor unit IC: Indoor unit R: Remote controller (for wireless type: optical receiver adapter)

Slim Air Co	onditioners System	Standard	1:1	Simultaneous Twin	Simultaneous Triple	Simultaneous Quad
diagram emote er)	Outdoor unit OC	Indoor/Outdoor connection	OC ∤³		OC	OC $3^{(2)}, 3^{(2)}$
	Indoor unit IC	cable Remote controller	IC-1	IC-1 IC-2	$\begin{array}{c} 3(2) \\ \hline 3(2) $	3(2) 3(2) 3(2) 3(2) IC-1 IC-2 IC-3 IC-4
System (Wired I controll	Wired remote controller R	cable	R	R	1 2 R	12 R

(Reference)

* Numbers given in () apply when power is supplied to the indoor and outdoor units separately.

① If simultaneous twin or triple or quad, connect the remote controller to any one of the indoor units. All functions of the

indoor unit can be controlled even if different models (different types) are mixed.

(2) Do not use crossover wiring among indoor units with simultaneous twin, triple, quad units. (Prohibited item.)

③ Electrical wiring diagram



1-2 Wireless remote controller



(Reference)

* Numbers given in () apply when power is supplied to the indoor and outdoor units separately.

① If simultaneous twin or triple or quad, connect the remote controller to any one of the indoor units. All functions of the indoor unit can be controlled even if different models (different types) are mixed.

2 Do not use crossover wiring among indoor units with simultaneous twin, triple, quad units. (Prohibited item.)

③ Electrical wiring diagram



1-3 Wired Remote Controller or Wireless Remote Controller Receiver Built into Indoor Unit

[Floor type (wired remote controller)/4-way ceiling cassette type, ceiling suspended type, wall mounted type (wireless remote controller)]

Slim Air Condi	itioner System	Standard 1:1	Simultaneous Twin	Simultaneous Triple	Simultaneous Quad		
System diagram (Wired remote controller or wireless remotecontroller receiver)	Outdoor unit OC	Indoor/outdoor connection cable 3(2)		[oc]	OC		
	Indoor unit IC		3(2) 3(2) IC-1 IC-2 R-1 R-2	3(2) 3(2) 1C-1 1C-2 1C-3	3(2) 3(2) 3(2) 3(2) IC-1 IC-2 IC-3 IC-4		
	Wired remote controller or reciever R			R-1 R-2 R-3	<u>R-1</u> <u>R-2</u> <u>R-3</u> <u>R-4</u>		
* Numbers given in () apply when power is supplied to the indoor and outdoor units separately.							

[Reference]

① For systems containing built-in wired remote controllers (or built-in wireless receiver adapters) and consisting of simultaneous twin, triple and quad units only, the installed remote controllers (or receiver adapters) must be connected without changing any settings. If the system consists of different models, keep only one of the remote controllers built into the indoor units, or remove all the remote controller cables and connect them to other models according to 1-1 or 1-2.

② Use the wired remote controllers without setting them as the main and sub controllers.

2. 2-remote Controller Operation

2-1 2 Wired Remote Controllers

<u>2-1 2 Wi</u>	2-1 2 Wired Remote Controllers (R: Wired remote controller)							
Slim Air Cond	litioner System	Standard 1:1	Simultaneous Twin					
System	Outdoor unit OC	Indoor/outdoor connection cable { ³⁽²⁾	OC $\frac{3(2)}{3(2)}$					
	Indoor unit IC	Remote controller	IC-1 IC-2					
diagram (Wired remote	Wired remote controller R	cable R-1 R-2	12 R-1 R-2					
controller)	Outdoor unit OC							
	Indoor unit IC							
	Wired remote controller R	R-1 R-2	R-1 R-2 R-2					
Slim Air Cond	litioner System	Simultaneous Triple	Simultaneous Quad					
	Outdoor unit OC	$\begin{bmatrix} OC \\ 3(2) & 3(2) \\ 3(2) & 3(2) \end{bmatrix}$	$\begin{bmatrix} OC \\ 3(2), 3(2), 3(2), 3(2), 3(2) \end{bmatrix}$					
System	Indoor unit IC		$\begin{array}{c c} \hline & \hline & \hline \\ \hline & \hline \\ \hline & \hline \\ \hline \\ & \hline \\ & 2 \end{array} \xrightarrow{2} \begin{array}{c} \hline \\ \hline \\ \hline \\ \hline \\ & \hline \\ & 2 \end{array} \xrightarrow{2} \begin{array}{c} \hline \\ \hline \\ \hline \\ & \hline \\ \\ \\ & \hline \\ \\ \\ & \hline \\ \\ \\ \\$					
diagram (Wired remote	Wired remote controller R	R-1 R-2	R-1 R-2					
controller)	Outdoor unit OC							
		3(2) 3(2) 3(2)	3(2), 3(2), 3(2), 3(2), 3(2), 3(2)					
	Indoor unit IC	(3(2) 3(2) 3(2) (C-1) (C-2) (C-3) (2) (2) (C-3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

* Numbers given in () apply when power is supplied to the indoor and outdoor units separately.

[Reference]

① If simultaneous twin or triple or quad, connect the remote controller to any one of the indoor units. All functions of the indoor unit can be controlled even if different models (different types) are mixed.

② Do not use crossover wiring among indoor units with simultaneous twin, triple, quad units. (Prohibited item.)

③ Set one of the remote controllers as the main controller (initial setting) and the other as the sub controller using the remote controller's function selection.

2-2 2 Wireless Remote Controllers

	Teless Kelliot	c oontroners	(R': Wireless remote controller receiver)		
Slim Air Cond	litioner System	Standard 1:1	Simultaneous Twin		
System diagram	Outdoor unit OC		Indoor/outdoor		
(Wireless remote	Indoor unit IC	_	connection cable		
controller receiver)	Wireless remote controller receiver section R'		connection 1 9 1 9 cable R'-1 R'-2		
Slim Air Cond	litioner System	Simultaneous Triple	Simultaneous Quad		
System diagram	Outdoor unit OC	OC , 3(2) , 3(2) , 3(2)	$\begin{array}{c} OC \\ 3^{(2)}, 3^{(2)}, 3^{(2)}, 3^{(2)}, 3^{(2)} \end{array}$		
(Wireless remote	Indoor unit IC	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
controller receiver)	Wireless remote controller receiver section R'	R'-1 R'-2	1° 1° R'-1 R'-2		

[Reference]

* Numbers given in () apply when power is supplied to the indoor and outdoor units separately.

① If simultaneous twin or triple or guad, connect 2 wireless remote controller receivers (one each) to any 2 of the indoor units. All the functions of the indoor unit can be controlled even if different models (different types) are mixed.

② Do not use crossover wiring among indoor units with simultaneous twin, triple, quad units. (Prohibited item.)

③ In the case of "standard 1:1" connection, it is not possible to connect 2 remote controller receivers to the indoor units. However, with systems consisting of simultaneous twin or triple or quad units, it is possible to connect a remote controller receiver to 2 indoor units. In this case, all the pair numbers will be "0" (intial setting, no change necessary), and all the units will be turned ON/OFF simultaneously.

④ When using 2 or more wireless remote controllers, the display contents on the remote controllers may differ from the actual settings, since the operation mode last by any of the remote controllers will be effective.

2-3 1 Wired and 1 Wireless Remote Controller

(R: Wired remote controller, R': Wireless remote controller receiver) Slim Air Conditioner System Standard 1:1 Simultaneous Twin System Outdoor unit OC OC diagram OC Indoor/outdoor connection cable (Wired remote 3(2) 3(2) 3(2) controller Receiver IC-2 and wireless Indoor unit IC IC IC-1 Remote controller cable connection remote 2 cable Wired remote 2 controller R R' controller R R' receiver) Receiver R-R' Slim Air Conditioner System Simultaneous Triple Simultaneous Quad System Outdoor unit OC OC oc diagram 3(2) 3(2 3(2) 3(2) (Wired remote controller IC-2 IC-1 IC-3 IC-2 IC-3 IC-4 IC-1 and wireless Indoor unit IC remote 12 Wired remote 2 controller R R' R R' controller receiver) Receiver R-R

* Numbers given in () apply when power is supplied to the indoor and outdoor units separately.

[Reference]

① If simultaneous twin or triple or quad, connect both the wired remote controller and wireless remote controller receiver to any one of the indoor units. All the functions of the indoor unit can be controlled even if different models (different types) are mixed.

2 Do not use crossover wiring among indoor units with simultaneous twin, triple, quad units. (Prohibited item.)

③ When using 2 or more remote controllers, the display contents on the remote controllers may differ from the actual settings, since the operation mode last by any of the wireless remote controllers will be effective.

3. Group Control Operation

(Collective Operation and Control of Multiple Refrigerant Systems (2 to 16))

- Multiple Mr.Slim air conditioners can be operated with the same settings (e.g., operation mode, preset temperature, etc.) by using 1 remote controller. Each outdoor unit can be turned ON/OFF individually by the intake sensor.
- Up to 16 refrigerant systems can be controlled as a group by 1 remote controller.
- A refrigerant address must be set for each outdoor unit. Addresses "0" to "15" can be set with no duplicates. Address "0" must be set for one of the outdoor units.
- * In the case of simultaneous twin, triple and quad units, only 1 refrigerant system is used.



[Reference]

* Numbers given in () apply when power is supplied to the indoor and outdoor units separately.

- ① For 2-remote controller control. refer to "2.2-Remote Controller Operation". However, when using both wired and wireless remote controllers. receivers must be connected to indoor units that are connected by crossover wiring.
- 2 Connect an indoor unit having the highest functions among the group to the outdoor unit assigned to refrigerant address "0". < Refer to the example given below> If indoor units with vanes are used with those without vanes, connect the outdoor unit to a unit with vanes.

Function specifications <Example>

		4-way ceiling cassette			Ceiling suspended	Wall mounted		Floor mounted	Ceiling suspended (suitable for kitchen)	Coling concooled				
		PLA-RP.AA PLH-RP.AAH	PLA-RP.BA(2)				PKA-RP.FAL(2) PKH-RP. FALH		PCA-RP.HA	PEAD-RP.EA(2) /GA PEHD-RP.EAH		SEZ-KA/KC.VA	SEZ-KD.VA	
	Fan	Number of fan speeds	4	4+Auto	3	4	4	2	2	2	2	2	2	3
iti	Up/down	Presence/absence	0	0	0	0	0	0	×	×	×	×	×	X
- un		Swing function	0	0	0	0	0	0	×	×	×	×	×	×
	Left/right swing louver	Presence/absence	×	×	×	×	×	×	0	×	×	×	×	×
Function order		1	1	2	1	1	3	4	6	6	6	6	5	

③ In the case of multi type systems consisting of simultaneous twin, triple and quad units, the indoor units should not be connected by crossover wiring. (Prohibited)

Outdoor unit address setting

- For group control, an address must be set for each outdoor unit.
- To set addresses to outdoor units, use the DIP switch SW1 (3-6) provided on each outdoor control board (initial setting: all are set to "OFF"). Address setting by SW1 is as follows.

		• •				
		Function	Operation by switch			
		Function	ON	OFF		
	1	Forced defrosting	Start	Normal		
SW1	2	Error history clear	Clear	Normal		
Function	3	Refrigerant address setting				
selection	4	↑	Used to set outdo	or unit addresses		
	5	↑	("0" to "15").			
	6	1 1				



Factory setting: All switches are set to OFF (i.e., refrigerant address "0").

* Checking the outdoor unit refrigerant addresses

To find the location of an outdoor unit with a specific refrigerant address, specify the address in self-diagnosis mode. The outdoor unit will operate intermittently. (For details on using self-diagnosis mode.)

Group operation by multiple remote controllers

• Up to 2 remote controllers can be connected to each group. For details, refer to "2.2-REMOTE CONTROLLER OPERATION".

4. Rotation Function (and back-up function, 2nd stage cut-in function)

4-1. Operation

(1) Rotation function (and Back-up function)

• Outline of functions

- \cdot Main and sub units operate alternately according to the interval of rotation setting.
- * Main and sub unit should be set by refrigerant address. (Outdoor Dip switch setting)
 - Refrigerant address "00" → Main unit
 - Refrigerant address "01" → Sub unit
- · When error occurrs to one unit, another unit will start operation. (Back-up function)

System constraint

- This function is available only by the grouping control system(INDOOR UNIT : OUTDOOR UNIT=1:1) of 2 refrigerant groups. (Refer to Fig. 1)
- Main indoor unit should be connected for wired remote controller and the transmission line(TB5) for main and sub unit should also be connected. (Refer to Fig. 1)
- (This function cannot be set by wireless remote controller.)
- · Set refrigerant address of each unit. (Dip switch on the outdoor unit --- Refrigerant address 00/01)



Note:

- When the uint is restarted to operate after turning off the power or OFF operation, the unit which was operating will start operation.
- To operate the main unit, refer to the 4-2. and set the requet code No. which is not the same as the current one, and set again the former request code No.

(2) 2nd stage cut-in function

• Outline of functions

- · When the 1st unit can NOT supply with sufficient capacity for exceptionally high-demand conditions and the actual room temperature reaches set point *, the 2nd unit starts operation in conjunction with the 1st unit.
- Once the actual room temperature goes down to 4degrees C below set point *, the 2nd unit stops operation automatically. (* set point = set temperature by R/C (remote controller) + 4, 6, 8°C (selectable))
- · Number of operating units is determined according to the room temperature and set point.
- · When room temperature becomes higher than set point, standby unit starts.(2 units operation)
- · When room temperature falls below set point -4°C, standby unit stops.(1 unit operation)

System constraint

• This function is available only in cooling mode.



4-2. How to set rotation function(Back-up function, 2nd stage cut-in function)

You can set these functions by wired remote controller.(Maintenance monitor)

NOTICE -

Both main and sub unit should be set in same setting. Every time replacing indoor controller board for servicing, the function should be set again.

(1) Request Code List

Rotation setting

Setting No. (Request code)	Setting contents	
No.1 (310)	Monitoring the request code of current setting.	
No.2 (311)	Rotation and Back-up OFF (Normal group control operation)	\bigcirc
No.3 (312)	Back-up function only	
No.4 (313)	Rotation ON (Alternating interval = 1day) and back up function	
No.5 (314)	Rotation ON (Alternating interval = 3day) and back up function	
No.6 (315)	Rotation ON (Alternating interval = 5day) and back up function	
No.7 (316)	Rotation ON (Alternating interval = 7day) and back up function	
No.8 (317)	Rotation ON (Alternating interval = 14day) and back up function	
No.9 (318)	Rotation ON (Alternating interval = 28day) and back up function	

2nd stage cut-in setting

Setting No. (Request code)	Setting contents	Initial setting
No.1 (320)	Monitoring the request code of current setting.	
No.2 (321)	Cut-in function OFF	\bigcirc
No.3 (322)	Cut-in Function ON(Set point = Set temp.+ 4°C(7.2°F))	
No.4 (323)	Cut-in Function ON(Set point = Set temp.+ 6°C(10.8°F))	
No.5 (324)	Cut-in Function ON(Set point = Set temp.+ 8°C(14.4°F))	

(2) Setting method of each function by wired remote controller



- B: Refrigerant address
- C: Data display area
- D: Request code display area

- 1. Stop operation(①).
- 2. Press the TEST button ([®]) for 3 seconds so that [Maintenance mode] appears on the screen ([®]). After a while, [00] appears in the refrigerant address number display area.(at [®])
- Press the CHECK button (③) for 3 seconds to switch to [Maintenance monitor].
 Note) It is not possible to switch to [Maintenance monitor] during data request in maintenance mode (i.e., while "----" is blinking) since no buttons are operative.

[----] appears on the screen (\bigcirc) when [Maintenance monitor] is activated. (The display (\bigcirc) now allows you to set a request code No.)

4. Press the [TEMP (\bigtriangledown and \frown)] buttons (④) to select the desired refrigerant address.



5. Press the [CLOCK (\bigcirc) and \bigcirc)] buttons (5) to set the desired request code No.("311~318", "321~324")

6. Press the (FILTER) button (6) to perform function setting.

If above setting operations are done correctly, "Request code number" will appear in data display area.(©) [Example: When the "311" of "Request code number" is set, [311] appears on the screen.(©)]

[Reference]

You can check current "request code number" setting by setting the "request code number"("310" or "320") and pressing the FILTER button.([®])

[Example: When the current setting is "Setting No.2(Request code 311)", [311] appears on the screen.(©)]

7. To return to normal mode, press the $\bigcirc ON/OFF$ button (\bigcirc) .

XI. External Dimensions

unit : mm





External colors : Cover Pure white (Munsell 6.9Y 8.9/0.4) LCD peripheral area Medium gray

MEMO





MEMO





MEMO

CITY MULTI and Mr.SLIM Air Conditioners

MA Remote Controller PAR-21MAA



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