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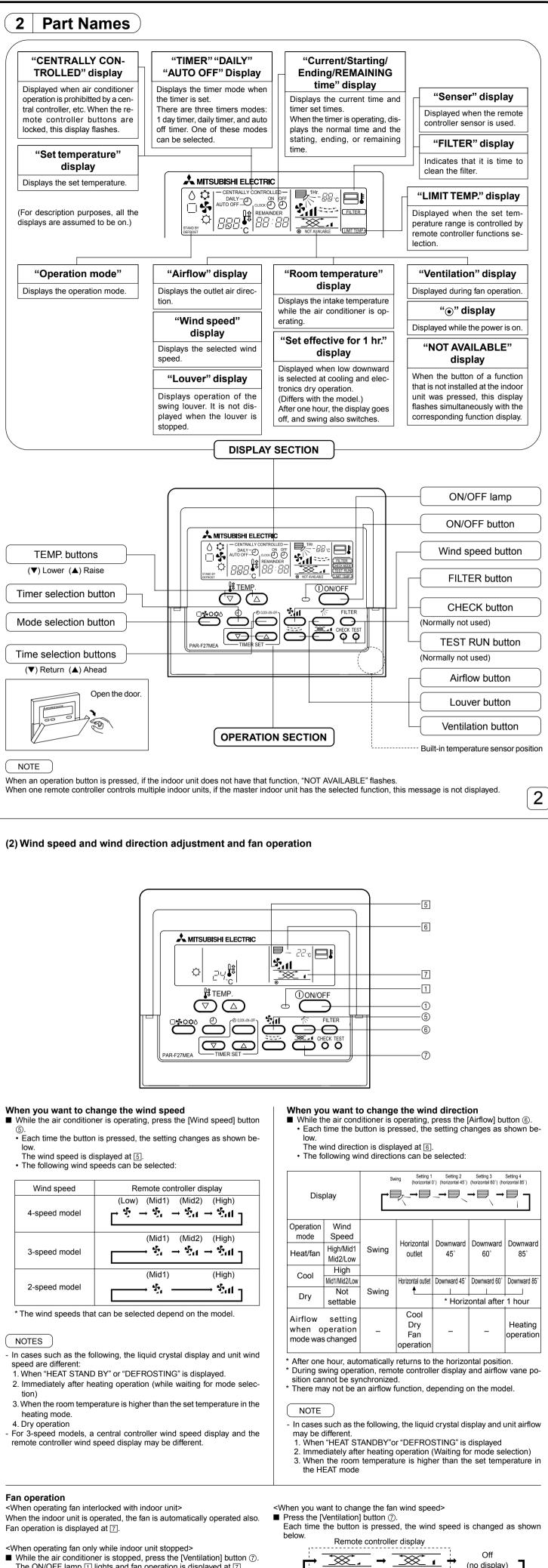
MITSUBISHI ELECTRIC **CITY MULTI Control System ME Remote Controller**

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PAR-F27MEA

Instruction Book

Thank you for purchasing a Mitsubishi CITY MULTI system. • To use your CITY MULTI system correctly and safely, please read this book before use. • After reading this book, keep it and the installation manual in a place where the final user can see them at anytime. • When the end user has changed, forward this book and the instruction manual to the new final user. • Do not try to install or move this system by yourself. (Safety and functions cannot be ensured) **1** Safety Precautions • The following two symbols are used to dangers that may be caused by incorrect use and their degree: MARNING This symbol denotes what could lead to serious injury or death if you misuse the PAR-F27MEA. CAUTION | This symbol denotes what could lead to a personal injury or damage to your property if you misuse the PAR-F27MEA. Ask your dealer or technical representative to install the unit. Do not move and re-install the PAR-F27MEA yourself. Any deficiency caused by installation may result in an electric shock or fire. Ask your distributor or special vendor for moving and installation. Any deficiency caused by your own installation may result in an electric shock or fire. Securely install in a place which can withstand the weight of the con-To dispose of this product, consult your dealer. Never modify or repair the PAR-F27MEA by yourself. If it is not enough, the controller may drop and cause an injury. Any deficiency caused by your modification or repair may result in an electric Make sure that the controller is connected to a rated power supply. shock or fire. If the controller is not connected to a rated power supply, it may cause a fire Consult with your dealer about repairs. or damage to the controller. Stop the operation immediately and notify the your dealer if an error Stop the operation if any malfunction occurs. code is displayed or malfunction occurs. If malfunction occurs (burning smell, etc.) stop the operation and turn off the Fire or damage may cause it the controller is operated in this condition. power supply. Contact the your dealer or technical representative immediate. If the controller continues to operate after a malfunction occurs, this may cause damage, electric shock or fire. **∧** CAUTION Do not install in any place exposed to flammable gas leakage. Do not use in any special environmen Using in any place exposed to oil (including machine oil), steam and sulfuric Flammable gases accumulated around the body of PAR-F27MEA may cause gas may deteriorate the performance significantly or give damage to the coman explosion. onent parts. Do not wash with water. Doing so may cause an electric shock or a malfunction Do not press any control button using a sharp object. Doing so may cause an electric shock or a malfunction Do not touch any control button with your wet hands. Doing so may cause an electric shock or a malfunction. Operate the controller within the specified temperature range. Observe the specified temperature range when operating the controller. If Do not use the controller for special applications. This product is designed for use with the CITY MULTI CONTROL SYSTEM. the controller is used outside the specified temperature range, it may cause serious damage. Be sure to check the operation temperature range in the Do not use the system for other air condition management operation or applioperation manual. cations. It may cause malfunctions. Do not pull or twist the transmission line. Do not apply insecticide or flammable sprays to the controller. It may cause a fire or malfunction Do not place flammable spray near the controller and make sure it does not Do not dismantle the unit. blow directly on the controller as this may cause in fire. It is dangerous to touch the internal circuit board. It may cause a fire or mal-Do not clean the unit using benzene, thinner or other chemicals. functior It may cause discoloration or other damage. If the unit should become particularly dirty, apply a mild cleaner that has been diluted with water to a soft



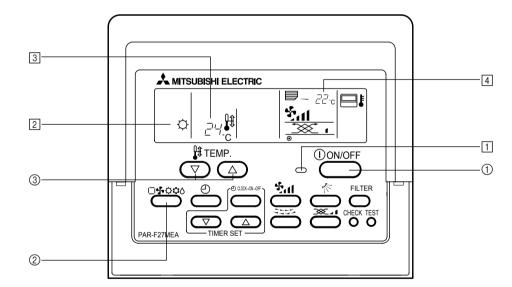
1

3 How to Operate

with a dry cloth.

(1) On/off and operation mode selection and room temperature adjustment

cloth and wipe the unit clean. Be sure to wipe away any residual moisture



When starting operation Press the [ON/OFF] button ①

• The ON lamp 1 and display light.

NOTE) The restarting operation contents are shown below.

Remote controller settings Operation Last operation mode mode Temperature Last set temperature setting Wind speed Last set wind speed Horizontal \Diamond outlet Operatior Airflow Ċ. Last setting mode Horizontal 4 outlet

When stopping operation Press the [ON/OFF] button ①

The ON lamp 1 and display go off.

- When selecting the operation mode Press the [Mode selection] button ② while the air conditioner is oper-The setting is switched each time the button is pressed.
- The operation mode is displayed at 2.

NOTE

The auto and heating functions may not be installed, depending on the outdoor unit model.

When you want to change the set temperature <When you want to lower the room temperature> ■ Press the [TEMP. (▽)] button ③.

- <When you want to raise the room temperature>
- Press the [TEMP. (△)] button ③. • The set temperature changes 1 °C each time the button is pressed. The set temperature is displayed at 3. • The following specified temperatures can be set:

Cool/dry operation	Heat operation	Auto operation	Fan
19(14) to 30 °C	17 to 28 °C	19 to 28 °C	Cannot be set.

NOTE

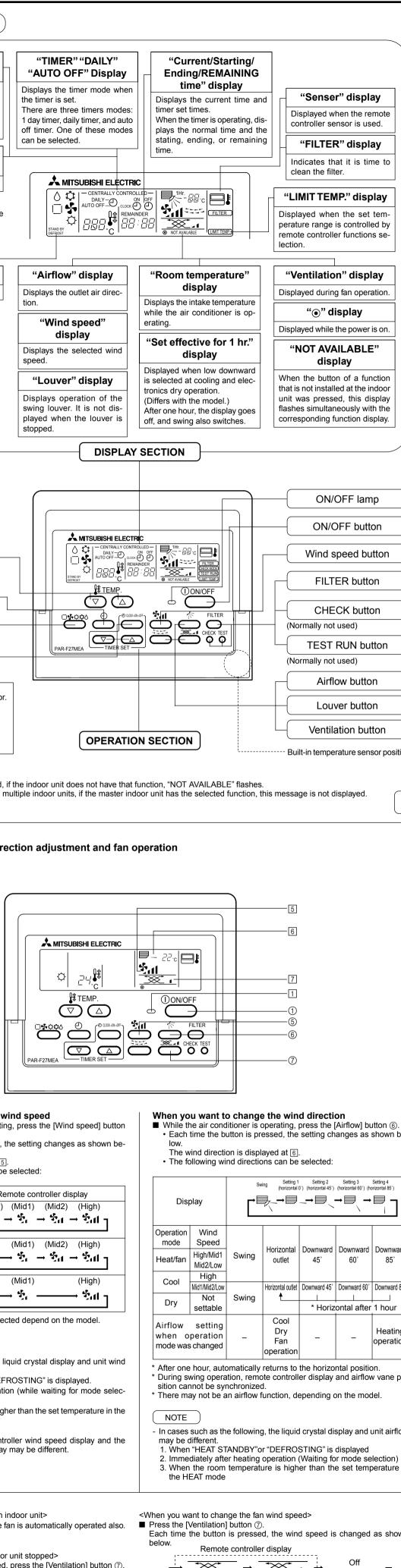
When "LIMIT TEMP." is displayed on the screen, the specified temperature range is limited. Therefore, the temperature range that can be changed becomes narrow.

Room temperature display

During operation, the intake temperature is displayed at 4.

NOTES

- The display range is 8 to 39 °C. When this range is exceeded, the room temperature display flashes at 8 °C or 39 °C. When multiple indoor units are controlled, the contents of the master indoor unit are displayed on the remote controller. The room temperature sensor position can be selected from "INDOOR
- UNIT" and "REMOTE CONTROLLER". The initial setting is "INDOOR UNIT". When you want to change the room temperature sensor position to "REMOTE CONTROLLER", consult vour dealer.
- When "no room temperature display" was selected by remote controller function selection, the room temperature is not displayed.



Wind speed	Remote controller display
4-speed model	(Low) (Mid1) (Mid2) (High)
3-speed model	(Mid1) (Mid2) (High)
2-speed model	(Mid1) (High) (Mid1) (High)

3

■ While the air conditioner is stopped, press the [Ventilation] button ⑦. The ON/OFF lamp 1 lights and fan operation is displayed at 7.

- Depending on the indoor unit and fan model, the indoor unit may operate even when only the fan was operated. NOTES - When "NOT AVAILABLE" is displayed when the [Ventilation] button ⑦ was pressed, the fan is not interlocked.

- (3) How to operate the timer There are the following three timer modes. Select one of them. 1) 1 day timer mode In this mode, the ON and OFF timers (10-minute units) can each be set to one time within 24 hours. This mode has the following three setting methods: ON timer operation : Timer only starts the air conditioner OFF timer operation : Timer only stops the air conditioner ON/OFF timer operation: Timer both starts and stops the air conditioner. 2) Daily timer mode Operation of this mode is the same as that of the 1 day timer mode. However, timer operation can be set to the same time each day in accordance with the set ON/OFF timer time. (ON/OFF timer each 1 time/daily) 3) Auto off timer mode The OFF timer can be easily set in 30-minute units. (30 minutes to 4 hours range) When the remaining time reaches 0:00, the air conditioner stops. When the Auto off timer mode is selected, the next time the air conditioner is started, the OFF timer operates automatically so that the timer can be used to turn off the air conditioner if you should forget. NOTE When ON/OFF operation from the central controller, etc. was restricted when timer operation was set, the set ON/OFF timer is not executed. After the restriction is removed, timer operation is performed at the ON/OFF time. When ON/OFF operation was restricted during AUTO OFF timer operation, the remaining time at the point operation was restricted is memorized and the air conditioner is stopped after the memorized remaining time from the time the restriction was removed. [Timer setting display example] 1 day timer mode e b ← 1 day timer mode 8 A.M. operation start 📩 MITSUBISHI ELECTRIC - 8 : DC **-** 22.0 **-**<u>* 11</u> Daily timer mode \leftarrow Daily timer mode $\dot{\bigtriangledown}$ 5 P.M. daily operation stop Auto off timer mode \leftarrow Auto off timer mode AUTO OFF_ Operation stop when 2 hours remain When setting the current time Press the [Time selection] button ① and display "CLOCK". Each time the button is pressed, the time is switched as shown below. \rightarrow CLOCK \rightarrow (\rightarrow) \rightarrow (\rightarrow) \rightarrow (\rightarrow) \rightarrow REMAINDER \rightarrow No display
- Each time the [Time selection (\triangle)] button ② is pressed, the time advances one minute and each time the [Time selection (\bigtriangledown)] button ② is pressed, the time returns one minute • When the button is held down, the time advances or returns continuously. The time changes in 1 minute units \rightarrow 10 minutes units \rightarrow 1 hour units order. About 10 seconds after the end of setting, the remote controller display goes off. * When a power failure occurs, the current time is reset. Reset the clock.
- When performing ON timer operation (1 day timer mode/daily timer mode) ■ Press the [Time selection] button ① and check "Current time (CLOCK)" and display "Starting time (쓴)".
- Set the ON time by pressing the [Time selection (\triangle) or (∇)] button (2). Set the OFF time to "-- : --" display
- "-- : --" display is displayed between 23 : 50 and 0 : 00. ■ Press the [Timer selection] button ③ and set the display to "O" (1 day timer mode) or "O" + "DAILY" (daily timer mode). Each time the button is pressed, the timer mode is switched as shown below

┍	Off	$\rightarrow \bigcirc \rightarrow \square AILY - \bigcirc \rightarrow AUTO OFF - \bigcirc \neg$
		(1 day timer mode) (Daily timer mode) (Auto off timer mode)
* The A	uto off	timer mode is skipped at the OFF window.

- When performing OFF timer operation (1 day timer mode/daily timer mode) ■ Press the [Time selection] button ① and check "Current time (CLOCK)" and set the display to "Ending time (资)".
- Set the OFF time by pressing the [Time selection (\triangle) or (∇)] button (2). Set the ON time to "-- : --" display
- Press the [Timer selection] button ③ and set the display to "②" (1 day timer mode) or "②" + "DAILY" (daily timer mode).

(5) Other displays and flashing - "CENTRALLY CONTROLLED" display -- "Operation mode" flashing -🙏 MITSUBISHI ELECTRIC 🙏 MITSUBISHI ELECTRIC <u>ية ا</u>

 Displayed when operation is controlled by central controller, etc. Restricted operations are shown below. ON/OFF (including timer operation) Operation mode Set temperature NOTE May also be individually restricted.	 <when continuously="" flashes=""></when> Displayed when another indoor unit connected to the outdoor unit i already operating in a different operation mode. Match with the operation mode of the other indoor unit. <when after="" display="" flashes="" mode="" switched=""></when> Displayed when operation mode is restricted for each season by cer tral controller, etc. Use another operation mode.
 - "FILTER" flashing – Indicates that the filter needs cleaning. Clean the filter. When resetting "FILTER" display When the [FILTER] button is pressed two times successively after cleaning the filter, the display goes off and is reset. 	 NOTES When two or more different types of indoor unit are controlled, the clean ing period differs with the type of filter. When the master unit cleaning period arrives, "FILTER" is displayed. When the filter display goes off the cumulative time is reset. "FILTER" indicates the cleaning period when the air conditioner was used under general indoor air conditions by criteria time. Since the de gree of dirtiness depends on the environmental conditions, clean the filter accordingly. The filter cleaning period cumulative time differs with the model.
– "ERROR CODE" flashing –	shed)

- When both the "ON" lamp and "ERROR CODE" flash, trouble occurred in the air conditioner and the air conditioner stops. Jot down the unit number and error code and turn off the air condi-
- When only "ERROR CODE" flashes (ON lamp remains a steady light)
- The air conditioner continues to operate, but there is the possibility of trouble occurring. Jot down the error code and consult your dealer.

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(6) How to select the remote controller functions

tioner power and consult your dealer.

- In the remote controller function selection mode, three functions can be selected and changed. Select and change them as required. 1) Operation mode display selection mode (Automatic mode cool/heat display selection) When the AUTO operation mode was set by remote controller, the indoor unit is judged from the room temperature and the cooling or heating operation is performed automatically. In this case, "AUTO" "COOL" or "AUTO" "HEAT" is displayed at the remote controller. However, "AUTO" can be displayed alone without the "COOL" or "HEAT" display.
- 2) Room temperature display selection mode (Room temperature display/no display selection) Normally, the intake temperature is displayed at the remote controller, but setting can be performed so that it is not displayed.
- Set temperature range limit mode
- Ordinarily, the set temperature adjustment range can be freely set to the 19 °C to 30 °C range for cooling and dry and the 17 °C to 28 °C range for heating. However, the lower limit temperature can be preset to an arbitrary value for cooling and dry and the upper limit temperature can be preset to an arbitrary value for heating. If the set temperature range for cooling and dry is set to a value higher than normal and the set temperature range for heating is set lower than normal in this way, overcooling and overheating can be prevented and energy can be saved.
- NOTE

(no display)

When the set temperature adjustment range was changed from the normal set temperature adjustment range by remote controller connected to a cooling/ heating simultaneous air conditioner with an AUTO mode, the AUTO mode cannot be selected with the [Mode selection] button.

Image: Sector Secto	Function selection mode transition] unction selection modes splay selection mode ↓ ② display selection mode ↓ ② justment range limit mode (cool/dry) ↓ ② justment range limit mode (heat) ↓ ③
3 CHORE CHORE <td< td=""><td>display selection mode$(2)$$(3)$$(3)$$\downarrow$ (2)(3)(3)(3)\downarrow (2)(3)(3)\downarrow (2)(3)(3)\downarrow (2)(3)(3)\downarrow (2)(3)</td></td<>	display selection mode (2) (3) (3) \downarrow (2)(3)(3)(3) \downarrow (2)(3)(3) \downarrow (2)(3)(3) \downarrow (2)(3)(3) \downarrow (2)(3)

See the setting when performing (er operation (1 day timer mode/daily timer mode) DN timer and OFF timer operation and check "Current time (CLOCK)" and set both the ON time and OFF time. ③ and set the display to "④" (1 day timer mode) or "④" + "DAILY" (daily timer mode).
 The Auto off timer can only be set Press the [Timer selection] button 	mer operation (AUTO OFF timer mode) while the air conditioner is operating. ③ and set the display to"⊙" + "AUTO OFF" (Auto off timer mode). pressing the [Time selection (△) or (▽)] button ②. (30 minutes units, 30 minutes to 4 hours) mer automatically starts.
When releasing timer operation ■ Press the [Timer selection] button	
$\rightarrow \text{Off} \rightarrow (1 \text{ day ti})$	DAILY O AUTO OFF O
	s skipped at the OFF window.
1) All buttons lock: Locks all the re	can be locked. There are two kinds of auto lock. mote controller buttons. on: Locks all the remote controller buttons except the [ON/OFF] button.
NOTE When auto lock is set, "– CENTRALL	Y CONTROLLED –" flashes.
 When locking/unlocking all but ■ When the [TEMP. (△)] button ① is or unlocked. 	ttons pressed two seconds successively while pressing the [FILTER] button, all the remote controller buttons are locked
All buttons lock	
While locked, all the remote cont	roller buttons cannot be operated. When all the buttons are locked in the timer mode, timer operation is performed
even though the buttons are lock When locking/unlocking all the	e buttons other than the [ON/OFF] button ressed and held down for two seconds while pressing the [FILTER] button, all buttons other than [ON/OFF] button
are locked or unlocked.	
[ON/OFF] button	
 While locked, buttons other than though the buttons are locked. 	the [ON/OFF] button cannot be operated. When locked in the timer mode, the timer operation is performed even
	6
shown at the left. 2. When the [CHECK] and [Mode sel the remote controller function sele can be selected by operating the OPERATION MODE DISPLAY S	tate with the remote controller [ON/OFF] button. The remote controller display shifts to the OFF window display dection] buttons ① are pressed and held down at the same time for two seconds, the remote controller switches to action mode and the "OPERATION MODE DISPLAY SELECTION MODE" window appears. The other three modes [TEMP.] (\bigtriangledown) button ② or (\triangle) button ③. Display the mode whose function you want to change. SELECTION MODE (When you want to change the AUTO mode display) nd "ON" or "OFF" lights. Each time the [Time selection (\triangle) or (\bigtriangledown)] button ④ is pressed in this state, the "ON" and
	[Time selection (\triangle) ((∇))] button
	 "COOL" or "AUTO" "HEAT" is displayed during AUTO mode operation. "AUTO" is displayed during AUTO mode operation.
 "88 °C" flashes at the room temp 	AY SELECTION MODE (When you want to change room temperature display/no display) berature display and "ON" or "OFF" lights. Each time the [Time selection (\triangle) or (∇)] button ④ is pressed in this
state, the "ON" and "OFF" displa	
	[Time selection (\triangle) ((∇))] button
When "OFF" was selected, the re-	om temperature is continuously displayed in the ON window. oom temperature is not displayed in the ON window. .IMIT MODE (When you want to change the set temperature adjustment range)
 <u>Cool/dry mode temperature sel</u> "COOL/DRY" and "LIMIT TEMP The lower limit temperature of t 	ection ?" light on the display and the set temperature adjustment range in the cool (dry) mode is displayed. the set temperature display flashes. This temperature value can be set and changed. ment range]: 19 °C ⇐⇒ 30 °C (Mid temperature indoor unit: 14 °C ⇐⇒ 30 °C) (Upper limit temperature 30 °C is
	instment range in cool/dry mode is 19 °C to 30 °C]
2) Each time the [Time selection (set temperature adjustment ran	\triangle) or (\bigtriangledown)] button ④ is pressed, the lower limit temperature value is increased or decreased. Set it to the desired
set temperature adjustment ran	(\bigtriangledown) or (\bigtriangledown)] button ④ is pressed, the lower limit temperature value is increased or decreased. Set it to the desired age.
set temperature adjustment ran [(\bigcirc) or (\bigtriangledown)] button ④ is pressed, the lower limit temperature value is increased or decreased. Set it to the desired age. ustment range was set to 24 °C to 30 °C] is pressed after the setting above, the remote controller switches to the <u>heat mode temperature selection window</u> . on the display and the heat mode set temperature adjustment range is displayed. ue can be changed by pressing the [Time selection (\triangle) or (\bigtriangledown)] button ④, the same as cool/dry mode temperature ment range: 17 °C to 28 °C (17 °C \iff 28 °C for mid temperature indoor unit also) (The lower limit temperature
 set temperature adjustment ran ○ ○ □ □ □ □ □ □ □ □ [When set temperature adj 3) When the [TEMP. (▽)] button ② "HEAT" and "LIMIT TEMP." light The upper limit temperature value selection. Upper limit temperature adjustrr 17 °C is fixed. Only the upper limit 3. At the end of selection of each function 	(\bigcirc) or (\bigtriangledown)] button ④ is pressed, the lower limit temperature value is increased or decreased. Set it to the desired age. (\bigcirc) or (\bigtriangledown)] button ④ is pressed, the lower limit temperature value is increased or decreased. Set it to the desired age. (\bigcirc) ustment range was set to 24 °C to 30 °C]) is pressed after the setting above, the remote controller switches to the heat mode temperature selection window. on the display and the heat mode set temperature adjustment range is displayed. ue can be changed by pressing the [Time selection (\triangle) or (\bigtriangledown)] button ④, the same as cool/dry mode temperature ment range: 17 °C to 28 °C (17 °C \iff 28 °C for mid temperature indoor unit also) (The lower limit temperature mit temperature can be changed.) ction, release the remote controller function selection mode and display the OFF window by pressing the [CHECK]
 set temperature adjustment ran ○ ○ □ □ □ □ □ □ □ [When set temperature adjustment ran When the [TEMP. (▽)] button ② "HEAT" and "LIMIT TEMP." light The upper limit temperature value selection. Upper limit temperature adjustrr 17 °C is fixed. Only the upper limit temperature adjustrr 17 °C is fixed. Only the upper limit and [Mode selection] buttons ① adjusted and [Mode selection] buttons ① adjusted and [Mode selection] buttons ① adjusted and [Mode selection] 	 △) or (▽)] button ④ is pressed, the lower limit temperature value is increased or decreased. Set it to the desired age. □ □
 set temperature adjustment ran ○ ○ □ □ □ □ □ □ □ □ [When set temperature adj 3) When the [TEMP. (▽)] button ② "HEAT" and "LIMIT TEMP." light The upper limit temperature value selection. Upper limit temperature adjustrr 17 °C is fixed. Only the upper limit 3. At the end of selection of each function 	 △) or (▽)] button ④ is pressed, the lower limit temperature value is increased or decreased. Set it to the desired age. □ □
set temperature adjustment ran	
set temperature adjustment ran	△) or (▽)] button ④ is pressed, the lower limit temperature value is increased or decreased. Set it to the desired ige. Justment range was set to 24 °C to 30 °C] b) is pressed after the setting above, the remote controller switches to the heat mode temperature selection window. on the display and the heat mode set temperature adjustment range is displayed. ue can be changed by pressing the [Time selection (△) or (▽)] button ④, the same as cool/dry mode temperature ment range: 17 °C to 28 °C (17 °C ⇔ 28 °C for mid temperature indoor unit also) (The lower limit temperature mit temperature can be changed.) ction, release the remote controller function selection mode and display the OFF window by pressing the [CHECK] the same time for two seconds. Contents 120 (H) × 130 (W) × 19 (D) mm
set temperature adjustment ran	