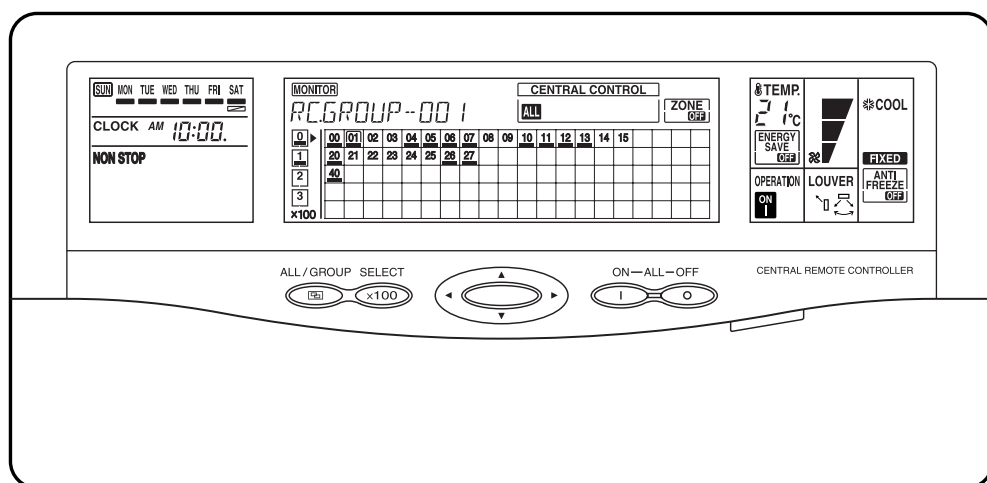


OPERATING MANUAL

CENTRAL REMOTE CONTROLLER UTB-YCA UTB-GCA



Before using this controller, please read this [OPERATING MANUAL] to ensure correct operation. Keep this manual for future reference.



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1. SAFETY PRECAUTIONS

- Before using CENTRAL REMOTE CONTROLLER, read this “SAFETY PRECAUTIONS” thoroughly to ensure the correct operation.
- This section describes the important safety information to operate CENTRAL REMOTE CONTROLLER.
- The meanings of “WARNING” and “CAUTION” are explained as follows.

 WARNING!	This mark indicate procedures which, if improperly performed, are most likely to result in the death of or serious injury to the user or service personnel.
 CAUTION!	This mark indicates procedures, which might result in personal harm to the user or damage to property if improperly performed.

WARNING!

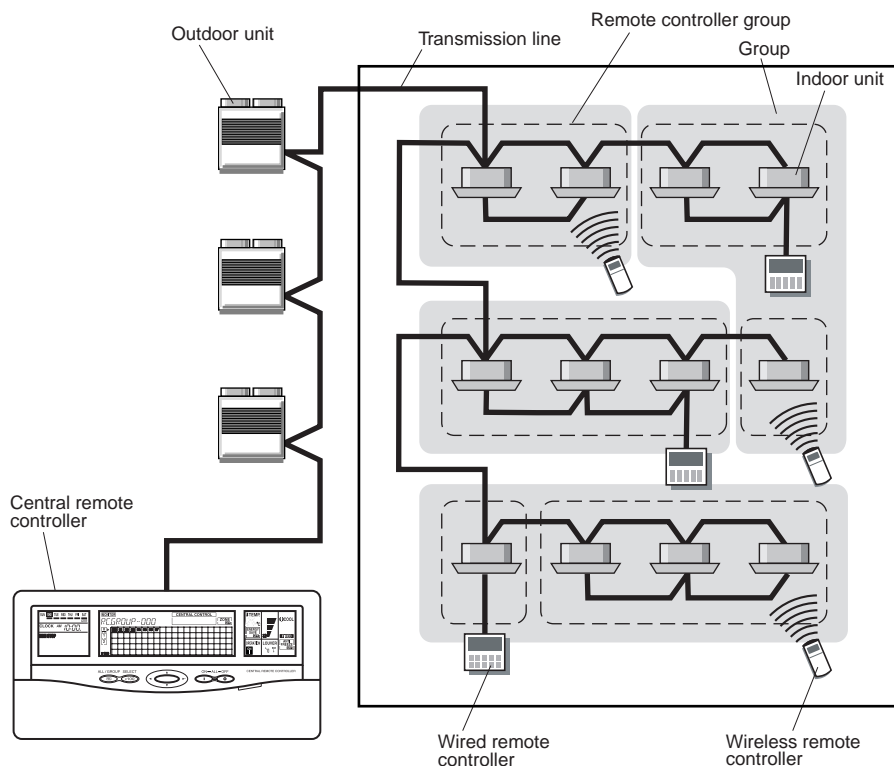
- Do not attempt to install this controller by yourself.
- This controller contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- When moving this controller, consult authorized service personnel for disconnection and installation of the unit.
- If the problem (burning, smell, etc) occurs, turn off the electrical breaker immediately to stop operation and then consult the authorized service personnel.
- If the power supply cord becomes damaged, contact your service representative for instruction.

CAUTION!

- Do not expose the controller directly to water.
- Do not operate the controller with wet hands.
- Do not touch the switches with sharp objects.
- Always turn off the electrical breaker whenever cleaning the controller, the air conditioner or the air filter.
- Ensure that all electronic equipment is at least one meter away from the controller.
- Avoid installing the controller near a fireplace or other heating apparatus.
- When installing the controller, take precautions to prevent access to infants.
- Do not use inflammable gases near the controller.
- At the time of installation, always provide a breaker for electrical leakage.
- Always use fuses with the proper capacity and type.

2. SYSTEM OUTLINE

2-1. SYSTEM OUTLINE



Please consult your sales representative when two or more central remote controllers need to be installed in one system.

• What is the central remote controller?

The central remote controller allows all the stored **remote controller groups** (the indoor units) to be controlled from a remote location.

(Refer to “2-3. EXPLANATION OF TERMS 1” for details about **remote controller groups**.)

• Three functions of the central remote controller

• CENTRAL CONTROL

The central control provides management of the **remote controller groups** (the indoor units). This includes placing restrictions on the standard remote controllers or performing memory operation for easily reproducing operating conditions that have been saved.

• OPERATION CONTROL

The operation control provides a controlled operation (such as to stop operation) of the stored **remote controller groups** (the indoor units) in the same manner as the standard remote controller.

• TIMER CONTROL

The timer control allows the starting and stopping of stored **remote controller groups** and indoor units through the timer functions in the central remote controller. These timer functions include: the off timer, on timer 1, on timer 2 and weekly timer.

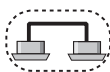
- **Three control methods of the central remote controller**
- **Individual control**
Provides control for each respective **remote controller group**.
- **Group control**
Provides control for each **group** which is made up of single or multiple previously set remote control groups.
(Refer to “2-3. EXPLANATION OF TERMS” for details about **groups**.)
- **All control**
Provides control for all remote control groups that have been stored in the central remote controller.

2-2. FEATURES

The front panel of the remote controller can be divided by function into three different control areas.

CENTRAL CONTROL

The central control provides management of indoor units. This includes placing restrictions on the standard remote controllers or performing memory operations.



If multiple remote control groups are set as one group, the control of these remote control groups can be realized by simply choosing the group.



By setting the central remote controller, it is possible to lock the function of the standard controllers. Items of selections to lock are all functions, timer mode, operating mode, temperature setting, reset filter, and ON/OFF.



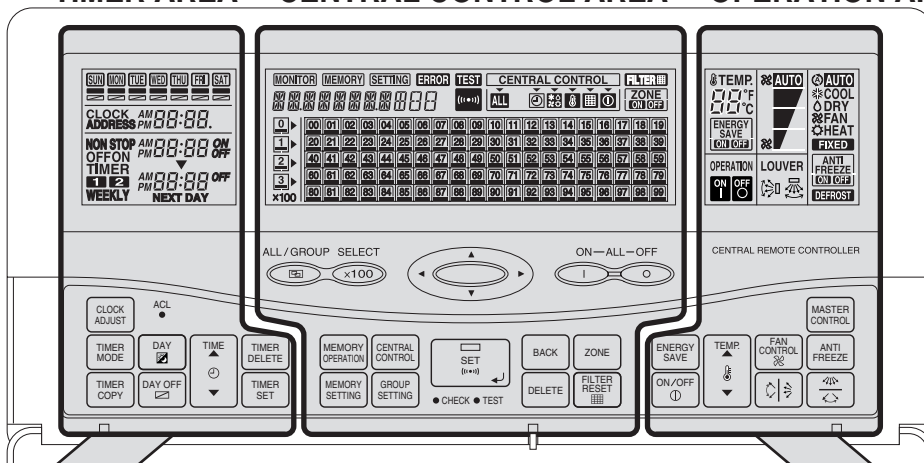
Setting contents of central remote controller are all memorized, so that each indoor unit can be operated in the memorized condition even if the operating conditions are changed later on.

4-1. GROUP INFORMATION STORE

4-2. STANDARD REMOTE CONTROL OPERATION PROHIBIT SETTING

4-3. MEMORY OPERATION

TIMER AREA CENTRAL CONTROL AREA OPERATION AREA



TIMER CONTROL

This function is used to provide time-related controls, such as start and stop, of the indoor unit by presetting the timer.



Weekly timer is equipped as standard function. (Up to 2 times ON/OFF per day for one week).

6-4. WEEKLY TIMER

OPERATION CONTROL

This function provides a controlled operation (such as to stop operation) of the indoor units in the same manner as the standard remote controller.



When the temperature of the room becomes low, the indoor unit will automatically start the heating operation until the temperature increases to a preset temperature.

5-10. ANTI FREEZE OPERATION

Other basic functions

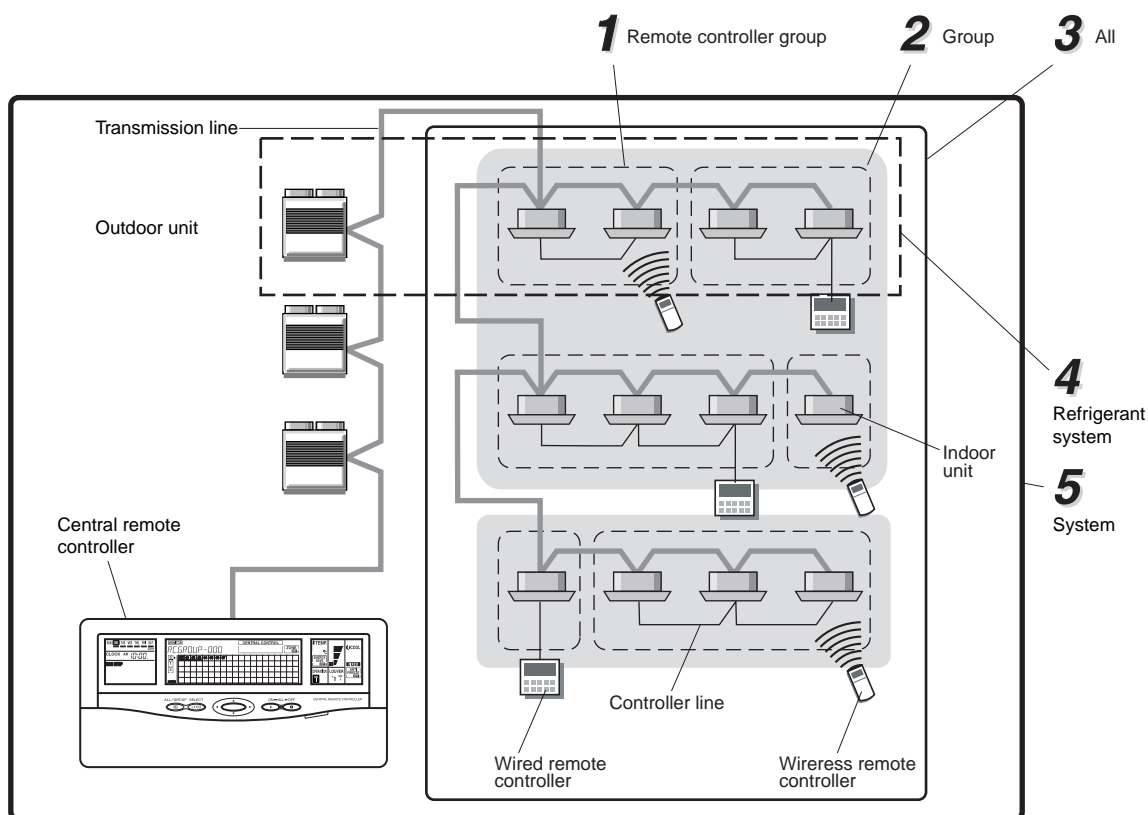
Notes:



- Central remote controller can control the indoor unit by all / group / individual.
- UP to 400 indoor units or 64 group can be controlled with one central remote controller.
- UP to 16 central remote controllers can be connected in one system.

2-3. EXPLANATION OF TERMS

■ Controller related items



1 Remote Controller group:
This is the control unit of indoor units that have been connected with one controller line as well as the control unit of a single indoor unit that has not been connected with any controller line.
These two kinds of control units are the smallest unit controlled by central remote controller, and are called a remote control group.

2 Group:
This is a control unit comprised single or multiple remote control groups.

3 All:
This is a control unit of all remote control groups that have been stored in the central remote controller.

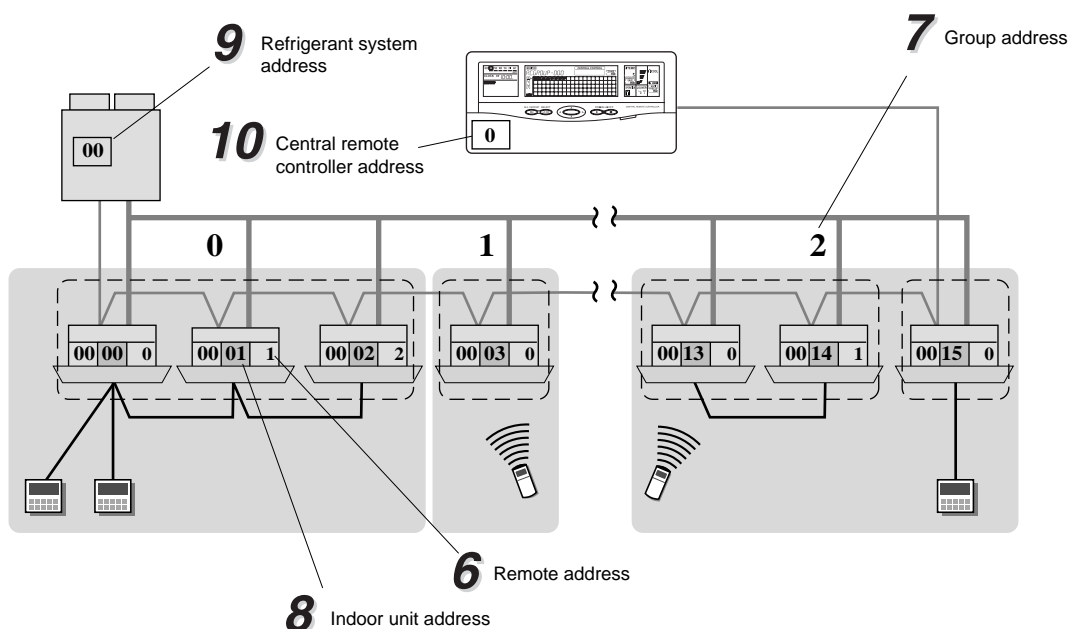
4 Refrigerant system:
This is a system that is composed of indoor units, outdoor unit as well as those of relevant control equipment. All of the units and the equipment are connected with pipes with the same refrigerant.

5

System:

This is all of the indoor units, outdoor unit as well as those of relevant control equipment (central remote controllers, standard remote controllers) that are connected with the same communication cable.

■ Address related items



6

Remote controller address (0~15):

This is the ID individually assigned to the indoor units forming each remote control group and is used for control.

7

Group number (0~63):

This is the ID individually assigned to each group and is used for control.

8

Indoor unit address (0~15):

This is the ID individually assigned to each indoor unit and is used for control.

9

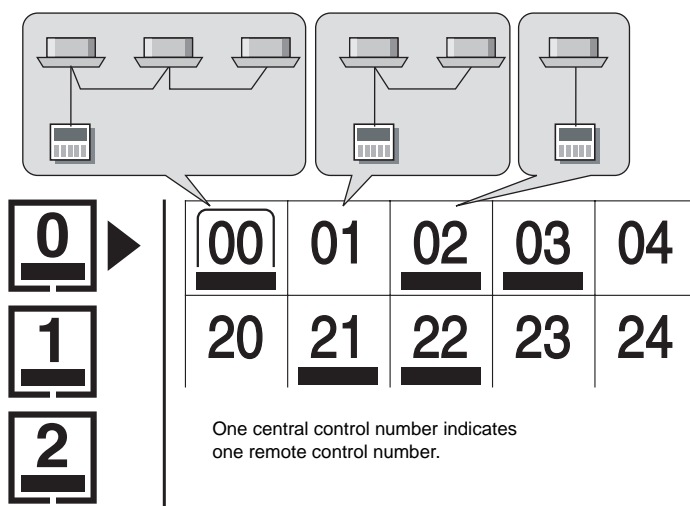
Refrigerant system address (0~99):

This is the ID individually assigned to each refrigerant system and is used for control.

10

Central remote controller address (0~15):

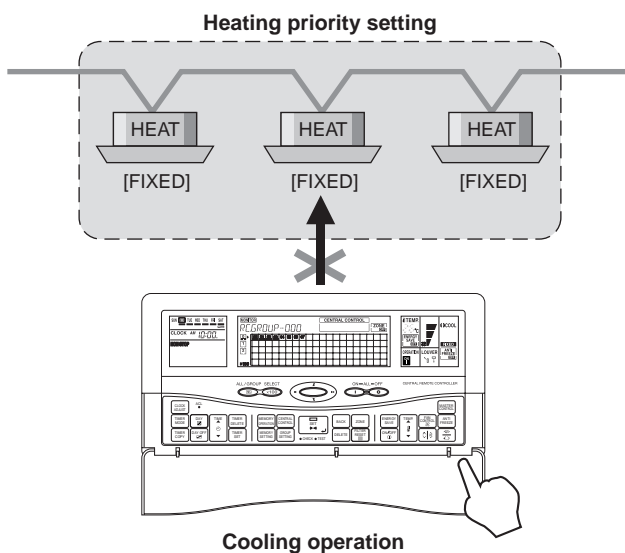
This is the ID individually assigned to each central remote controller and is used for control.



11

Central control number (0~339):

These are the numbers by which the control of the indoor units is performed. Each number that appears on the LCD of the central remote controller is the number that has been assigned individually to a remote control group to be controlled and has been stored in the central remote controller. Refer to the SETTING MANUAL for specific details.



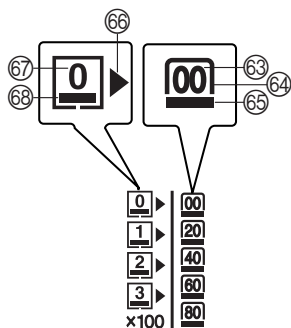
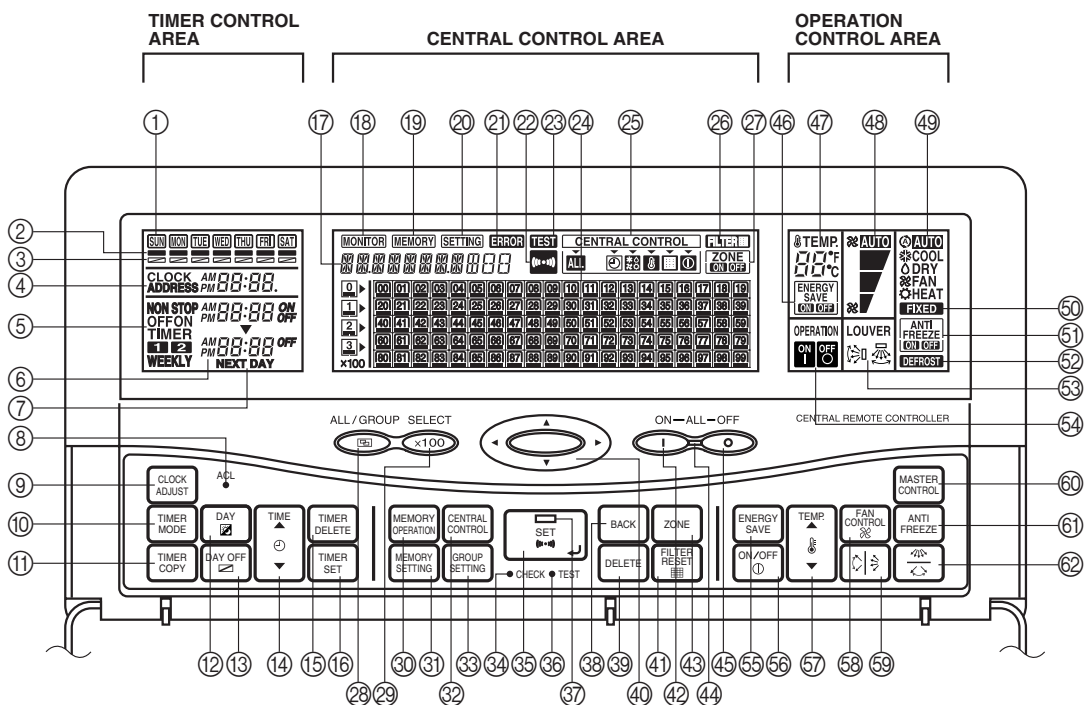
12

Cooling / Heating priority:

When a HEAT PUMP TYPE operating system is used, the system can only be performed in one of two operation modes (cooling / heating) for single refrigerant system. When an indoor unit in the system first starts an heating operation, the system is then in "heating priority". This means the system will refuse a command for changing the operation mode. On the other hand, when an indoor unit in the system first starts a cooling operation, the system is then in "cooling priority". The system will refuse to change to any other operation mode, except for the drying operation.

FIXED will appear on the LCD when the indoor units associated with the selected central control number exists in cooling / heat pump type refrigerant system.

2-4. NAMES AND FUNCTIONS OF THE PARTS



CENTRAL CONTROL NUMBER

- ⑥③ Visible numbers represent the central control numbers that have been stored. An error will cause the relevant central control number to flash.
- ⑥④ Cursor: To be used in order to select the central control number. It flashes when the filter need to be cleaned or exchanged.
- ⑥⑤ Visible under lines distinguish the operating indoor units from all indoor units.
- ⑥⑥ Page cursor: To show the current page.
- ⑥⑦ Visible page numbers inform that there are some central control numbers in the page. An error will cause the relevant page number to flash.
- ⑥⑧ Visible under lines inform that at least one indoor unit which is stored in this page is now operating.

TIMER CONTROL AREA

① DAY OF THE WEEK DISPLAY	Displays the day of the week.
② WEEKLY TIMER STATUS DISPLAY	Appears when the weekly timer has been set for the day.
③ DAY OFF DISPLAY	Appears when the set weekly timer is temporarily cancelled for the day.
④ CLOCK AND ADDRESS DISPLAY	Shows the current time and address.
⑤ TIMER MODE DISPLAY	Shows the selected timer mode.
⑥ ON/OFF TIME DISPLAY	Shows the ON/OFF time to be or have be set.
⑦ NEXT DAY DISPLAY	Appears when the set OFF time exists in the subsequent day.
⑧ ALL CLEAR BUTTON	To delete all set value in the central remote controller.
⑨ CLOCK ADJUST BUTTON	To set the time.
⑩ TIMER MODE BUTTON	To enter the control mode and to change the timer mode (WEEKLY TIME / NON STOP / OFF TIMER / ON TIMER1 / ON TIMER2).
⑪ TIMER COPY BUTTON	To copy one day's weekly timer settings and paste them to another day.
⑫ DAY BUTTON	To change the day.
⑬ DAY OFF BUTTON	To temporarily cancel the weekly timer setting (Day off function) for a special day.
⑭ TIME BUTTON	To set ON/OFF time.
⑮ TIMER DELETE BUTTON	To cancel the set time.
⑯ TIMER SET BUTTON	To confirm and save the time setting.

CENTRAL CONTROL AREA

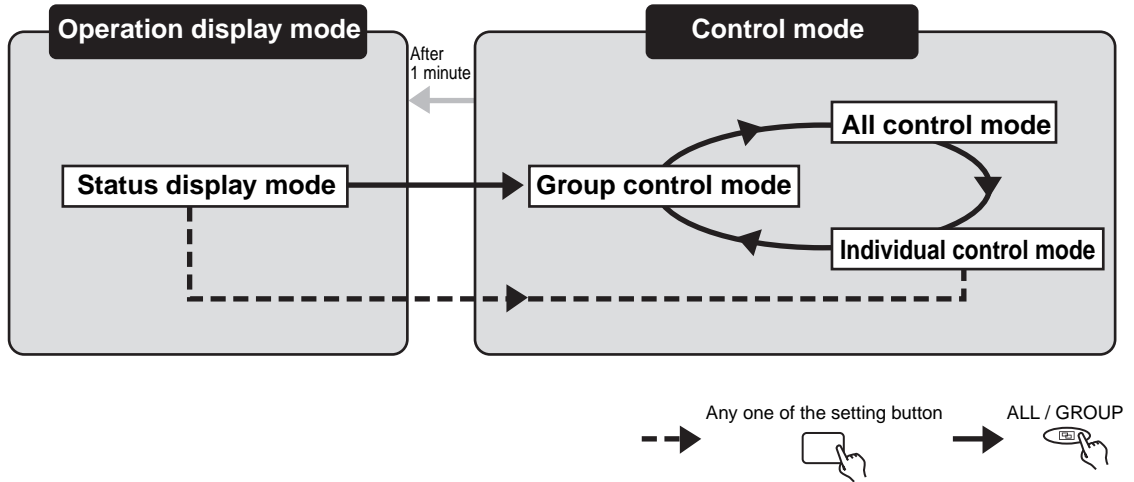
⑰ STATUS DISPLAY	Displays the various kinds of information.
⑱ MONITOR DISPLAY	Comes on together with an individual status display.
⑲ MEMORY DISPLAY	Comes on during memory operation and setting for memory operation.
㉑ SETTING DISPLAY	Comes on during various setting.
㉑ ERROR DISPLAY	Comes on or flashes when error is detected.
㉒ TRANSMIT INDICATOR DISPLAY	Flashes in the period of sending the new setting from the central remote controller to other units.
㉓ TEST DISPLAY	Comes on during test operation.
㉔ GROUP CONTROL DISPLAY	Displays the stored central control number and the operating status of the currently selected indoor units.
㉕ CENTRAL CONTROL DISPLAY	Comes on when the functions of the standard remote controller have been prohibited by the central remote controller.
㉖ FILTER RESET DISPLAY	Flashes when the filter of the selected indoor units need to be cleaned or exchanged (The relevant DIP switches in the indoor units and in the central remote controller need to be set firstly.).
㉗ ZONE DISPLAY	When zone operation is conducted, zone on comes on, otherwise zone off comes on.
㉘ ALL / GROUP BUTTON	To change the control mode (individual / group / all).
㉙ SELECT x100 BUTTON	To switch to the next screen of the central control numbers by 100.
㉚ MEMORY BUTTON	To operate the memorized condition.
㉛ MEMORY SETTING BUTTON	To conduct memory operation setting.
㉜ CENTRAL CONTROL BUTTON	To fully or partially prohibit the setting from the selected standard remote controllers.
㉝ GROUP SETTING BUTTON	To start the group setting.
㉞ CHECK BUTTON	To switch to error code display.
㉟ SET BUTTON	To confirm the new setting and to send signals to the indoor units whose settings need to be changed.
㊱ TEST BUTTON	To start test operation.
㊲ SET LED	Lights up when the new setting has been made. It will go out when the newly set information has been sent to the relevant indoor units.
㊳ BACK BUTTON	To cancel the just made setting and to return to the previous screen.
㊴ DELETE BUTTON	To delete the set item.
㊵ SELECT BUTTON	To select the central control number in central control display.
㊶ FILTER BUTTON	To reset the flashing filter indicator after exchanging and cleaning the filter.
㊷ ALL ON BUTTON	To start the operation of all indoor units stored in the central remote controller.
㊸ ZONE BUTTON	To start and stop zone operation.
㊹ ALL ON / OFF LED	Flashes when error occurs. It will light up when an indoor unit is operating.
㊺ ALL OFF BUTTON	To stop the operation of all indoor units stored in the central remote controller.

OPERATION CONTROL AREA


㊼ ENERGY SAVE DISPLAY	When energy save operation is conducted. ENERGY SAVE ON comes on, otherwise ENERGY SAVE OFF comes on.
㊽ TEMPERATURE DISPLAY	Shows the set temperature.
㊾ FAN CONTROL DISPLAY	Shows the set fan speed.
㊿ MASTER CONTROL DISPLAY	Shows the current operating mode.
① FIXED COOLING OR HEATING DISPLAY	Comes on when the indoor unit is set in the cooling and heat pump type refrigerant system.
② ANTI FREEZE DISPLAY	When the anti freeze operation is conducted. Anti freeze ON comes on. Otherwise Anti freeze OFF comes on.
③ DEFROST DISPLAY	Appears when the refrigerant system of the selected indoor unit is carrying out a defrost operation.
④ AIRFLOW DIRECTION DISPLAY	Shows the method to control the airflow direction.
⑤ ON / OFF DISPLAY	Shows the operating condition (ON / OFF) of the indoor units associated with the selected central control number.
⑥ ENERGY SAVE BUTTON	To start or stop the energy save operation which is a method to keep energy consumption cost down by controlling the thermostat temperature setting.
⑦ ON / OFF BUTTON	To turn the selected indoor units on and off.
⑧ TEMP. BUTTON	To set room temperature.
⑨ FAN CONTROL BUTTON	To change the fan speed.
⑩ HORIZONTAL AIRFLOW DIRECTION AND SWING BUTTON	To set the angle or movement of up / down swing of the flaps.
⑪ MASTER CONTROL BUTTON	To change the operating mode.
⑫ ANTI FREEZE BUTTON	To start and stop anti freeze operation.
⑬ VERTICAL AIRFLOW DIRECTION AND SWING BUTTON	To set the angle or movement of right / left swing of the flaps.

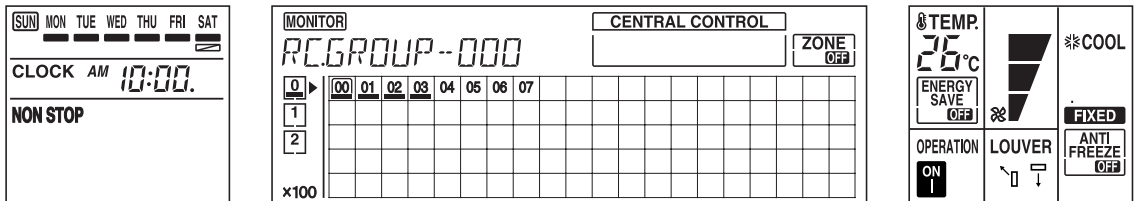
3. BASIC OPERATION

The following shows the two major screens of the display of the central remote controller.



• Operation display mode (monitor screen)

The operating condition of each remote control group that has been stored in the central remote controller is displayed. When a central control number is selected with the button , the current operating condition of the relevant indoor units is shown on the LCD. If no action is taken, this mode will be shown.



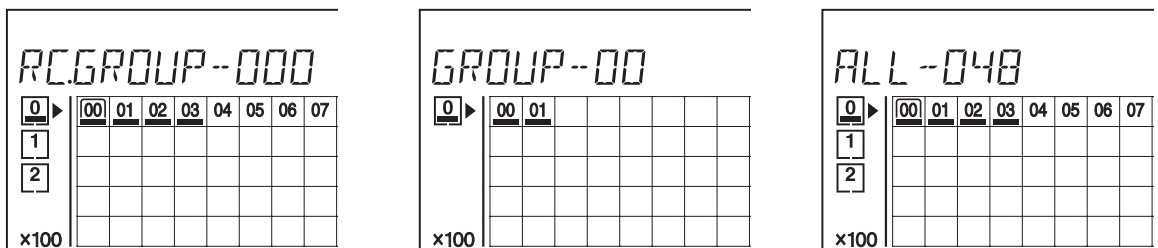
• Control mode (Setting screen)

Control mode is used to set the items to be controlled to the remote control groups that has been stored in the central remote controller. There are three control modes in the central remote controller.

Individual control mode: Used for setting items to be controlled to a single remote control group.

Group control mode: Used for setting items to be controlled to a grouped remote control group.

All control mode: Used for setting items to be controlled to all of the remote control group.




Individual control mode

Group control mode

All control mode

Notes

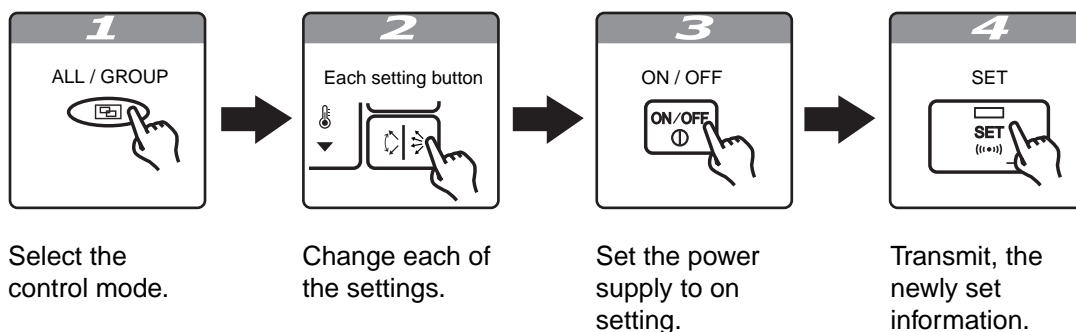


- If no action is taken within one minute, the screen will always returns to operation display mode automatically.
- In the control mode, use  to change to each of the control modes.

3-1. BASIC FLOW OF OPERATION

This section explains the basic flow of operation.

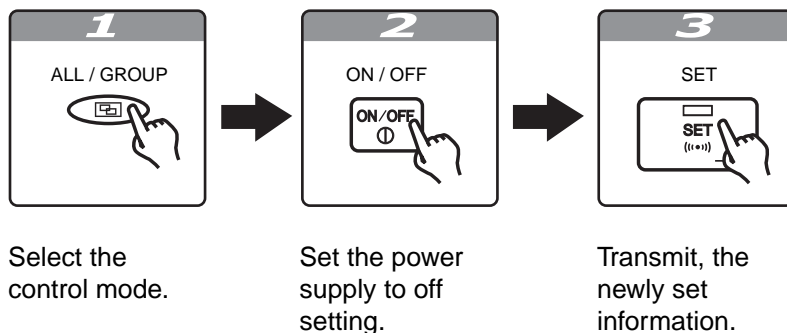
■ To start operation



* When several control items need to be changed, complete all the changes in **2** and then send in **4**.

* Use the following sequence **1** → **2** → **4** to make changes without starting the unit.

■ To stop the operation

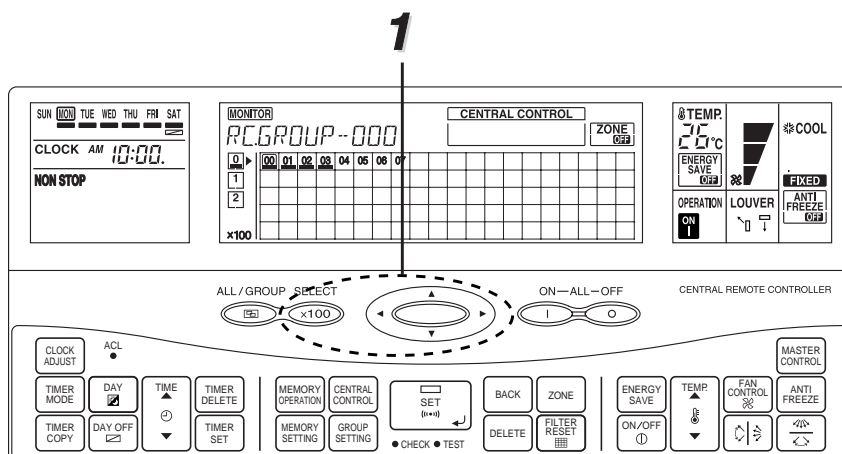


Notes



- All the indoor units can be turned on / off at the same time with this central remote controller. For details, refer to "5-1. ALL OPERATION/ALL STOP."
- Please refer to sections 4, 5, 6 for details about specific operations.

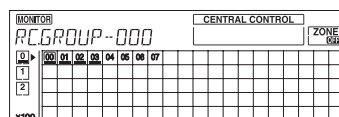
3-2. OPERATION DISPLAY MODE



1

Use  and  to select the desired control number.

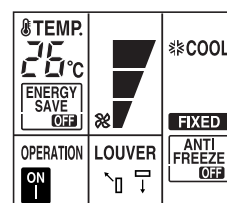
The cursor over the central control number tells you the central control number being selected.



- **MONITOR** comes on in the individual operation display.
- **RCGROUP--000** is displayed in the status display. The currently selected central control number is displayed. (In this example, the selected control number is 00.)

2


The operation display of the remote control group associated with the selected central control number is obtained.



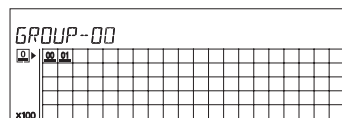
3-3. CONTROL MODE

The control of remote control groups is provided by setting the relevant items in control mode. The following procedure for the setting is the same for any of the control modes (**Individual control mode / Group control mode / All control mode**).



1


Push  to select control mode from among Individual control mode / Group control mode / All control mode.

If you wish to change the setting of the remote control group currently displayed in the operation display mode, it can be started from step 3.

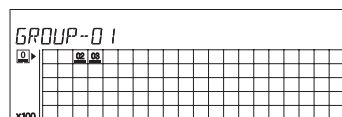


2

- When Individual control mode is selected, use  and  to select the desired central control number, then go to step 3.

- When Group control mode is selected, use  to select the desired group number, then go to step 3.


- When All control mode is selected, go directly to step 3.

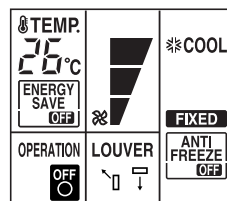


3

Press the buttons to change the items of setting. Refer to “2-4. NAMES AND FUNCTIONS OF THE PARTS” for information about the buttons.

The newly set operation conditions will be applied to the indoor units associated with the central control numbers selected in step 2.

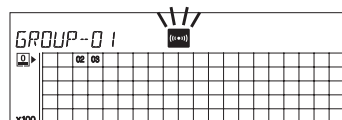
If there is a change on setting, LED  will light up to indicate that new information about the settings needs to be sent to the relevant indoor units.





4

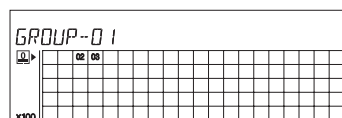
Press  to send the signal to the indoor unit.

 will flash during transmission.



5

When the signal transmission is completed,  and LED  will go out. The indoor unit will start to operate under newly set condition immediately.



RCGROUP--000

0	00	01	02	03	04	05	06	07
1								
2								

x100

Individual control mode

GROUP--00

0	00	01						
1								
2								

x100

Group control mode

ALL--048

0	00	01	02	03	04	05	06	07
1								
2								

x100

All control mode


- To be used to change the settings of a single remote control group.

- To be used to change the settings of remote controller groups in group control unit.
- Only the central control numbers (the indoor units) that have been stored in the group appear on the LCD, when the group is selected.
- When the central control numbers that have been stored in the group are not all included in that one page of LCD, the relevant page number will also come on when the group is selected.
- If groups are composed of indoor units of HEAT PUMP TYPE refrigerant system, **FIXED** will appear on the LCD.

- To be used to change the settings of all remote control groups that have been stored in the central remote controller.

Notes



- In order to shorten the setting time as well as to simplify the setting procedure, it is possible to send all of the set information by pressing  after all the changes have been made. (Refer to "3-1. BASIC FLOW OF OPERATION".)
- The time between each press of the buttons should be less than 1 minute, otherwise, after five time of Beep sound. (in 30 seconds) all the changes that have been made will disappear.

3-4. FUNCTION LIST

The following show the function list of the central remote controller. The functions shown with a ✓ can be set following the procedures shown in “3-1. BASIC FLOW OF OPERATION”. Refer to each of the items for more detail information.

	Function	Description of the function	Reference page
CENTRAL CONTROL FUNCTION	Group information store	Form a control unit - “group” which is combined by remote control groups (indoor units) so that the indoor units in the same group can be controlled simultaneously. Standard remote controller operation prohibition setting: Restrict the setting items of a standard remote controller.	P20
	Standard remote controller operation prohibit setting	Sets the operating limit for the standard remote control for the assigned indoor unit.	P23
	Memory operation	Save the current operating conditions. The saved operating conditions can be reproduced at any time easily.	P26
	✓ Zone setting	Perform zone operation.	P28
	✓ Filter indicator reset	Reset the filter indicator after cleaned or exchanged the filter.	P30
OPERATION CONTROL FUNCTION	All operation / All stop	Operate or stop all the indoor units that have been stored to the central remote controller.	P32
	✓ Operation / Stop	Operate / Stop the selected indoor units.	P33
	✓ Operating mode setting	Perform the operating mode setting of the selected indoor units.	P35
	✓ Temperature setting	Perform the room temperature setting of the selected indoor units.	P38
	✓ Fan speed setting	Perform the fan speed setting of the selected indoor units.	P39
	✓ Flow direction setting (vertical)	Adjust the vertical angle of the flaps of the selected indoor units.	P41
	✓ Flow direction setting (horizontal)	Adjust the horizontal angle of the flaps of the selected indoor units.	P44
	✓ Swing setting	Perform auto-swing operation in vertical or in horizontal direction.	P46
	✓ Energy save operation setting	Perform the energy save operation in order to operate the system economically.	P50
TIMER CONTROL FUNCTION	OFF timer	Stop the indoor units at the set time.	P56
	ON timer1	Start the indoor units at the set time.	P58
	ON timer2	Start operation of the indoor units beforehand in order to make the room temperature reaches the set temperature at the set time.	P60
	Weekly timer	Up to two on / off settings for each day of the week.	P63

Notes



Beep sound:

The BEEP sound has the following meanings.

- “Beep”
This is the beep sound made when a button is operated.
- “Beep Be”
This is the beep sound when the transmission has been completed in the control mode.
- “Beep Beep Beep Beep Beep”
This is the beep sound when you forget to press the transmit key when in the control mode.
- “Beee”
This is the beep sound when there has been an operating error.

4. CENTRAL CONTROL METHOD (CENTRAL CONTROL AREA)

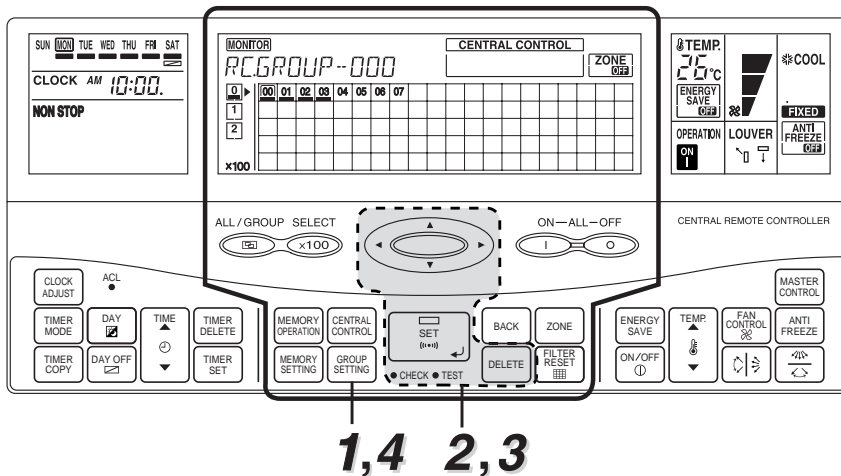
This section explains the methods on group information store, on how to place the restrictions on the standard remote controllers, as well as the control items on management of the indoor units using the setting buttons in central control area of the central remote controller.

4-1. GROUP INFORMATION	
STORE	20
4-2. STANDARD REMOTE	
CONTROL OPERATION	
PROHIBIT SETTING	23
4-3. MEMORY OPERATION	26
4-4. ZONE SETTING	28
4-5. FILTER INDICATOR RESET	30

4-1. GROUP INFORMATION STORE

It is necessary to do group information store before group control is conducted with the central remote controller.

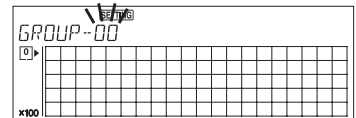
The following shows the procedure of group information store.



4-1-1. To do group information store

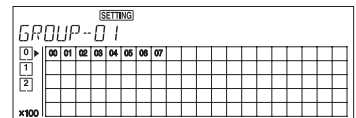
1

Press **GROUP SETTING** to enter the group information store mode.



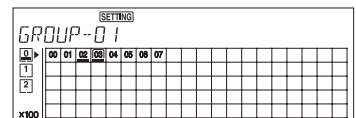
2

Select the group number whose group information store need to be performed with **○** and set by pressing **SET (H=0)**.



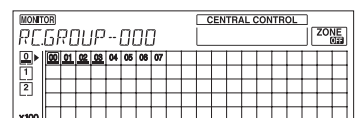
3

Press **○** to select the central control number to be stored in the selected group. Press **SET (H=0)** to store.



4

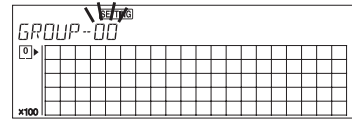
To continue group information store, press **BACK** to return to the group number selection screen of 1 and repeat steps 2 and 3. To complete the group information store, press **GROUP SETTING** in the group selection screen shown in step 1.



4-1-2. To delete the stored information in group

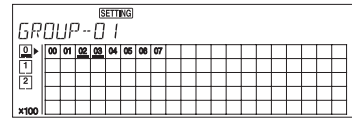
1

Press **GROUP SETTING** to enter the group information store.



2

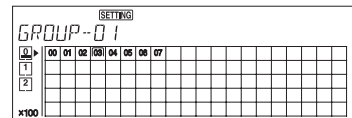
Use **◀▶** to select the group whose stored information is to be deleted and then press **SET (000)** to set it.



If **DELETE** is pressed at this time, all the central control numbers registered in the selected group will be deleted.

3

Use **◀▶** to select the central control number in the group selected in step 2 and press **DELETE** to delete it.



Repeat step 3 to continue deleting the stored central control number in the same group.

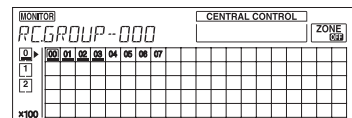
4

If you wish to delete the stored information in other group, press **BACK** to return to screen of step 1.

Repeat steps 2 and 3.

To end the deletion of the stored group information,

press **GROUP SETTING**.



Notes

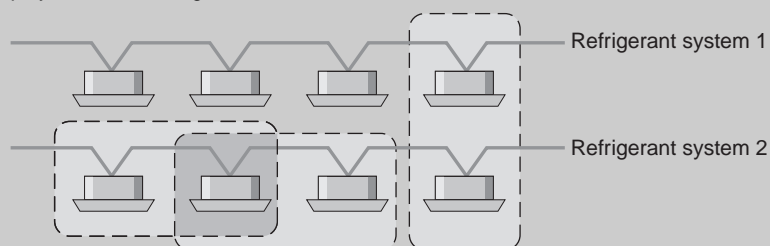


Group Information Store

The following show the restrictions on group information store.

- A maximum of 64 groups can be formed in one system.
- A maximum of 64 remote control groups can be stored per group.
- Since the remote control group is the smallest control unit and can not be broken up, the group must be made up with complete remote control groups.

The following show examples of group formation. There are some restrictions on operating mode, on display for the following occasions.



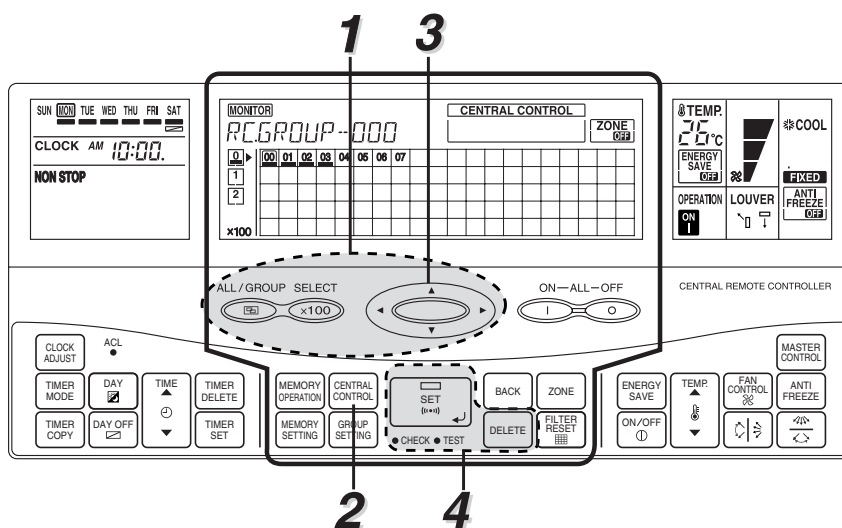
- Group formed with the indoor units in two refrigerant systems.

When part of indoor units exist in cooling & heat pump type refrigerant system, certain operating mode of the group can not be carried out even if the operating mode is shown on the LCD. In addition, the operating mode is limited owing to cooling / heating priority setting.

- Overlapping groups.

The operating condition of the indoor units overlapped in the group is determined by the control signal last sent to indoor units.

4-2. STANDARD REMOTE CONTROL OPERATION PROHIBIT SETTING

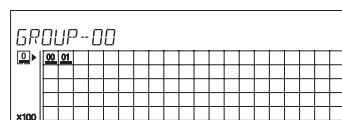


In validate (or do not able to make) the operation settings from the relevant standard remote controller by pressing the central remote controller. The following shows the centrally controlling items that can be performed.


- **ALL** Invalidate (or do not able to make) all operation settings from the relevant standard remote controllers.
- Invalidate (or do not able to make) all timer settings (OFF / ON1 / ON2 / WEEKLY) from the relevant standard remote controller.
- Invalidate (or do not able to make) mode operation setting from the relevant standard remote controller.
- Invalidate (or do not able to make) temperature setting from the relevant standard remote controller.
- Invalidate (or do not able to make) filter reset operation from the relevant standard remote controller.
- Invalidate (or do not able to make) ON / OFF operation of the indoor units from the relevant standard remote controller.

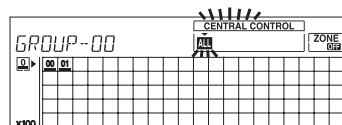
Several of the centrally controlling items can be set simultaneously, except **ALL**. If **ALL** is set, all operation settings of the relevant standard remote controller invalidate (wireless) or cannot be made (wired). The started centrally controlling items can be set only when DIP-SW 2-5 “enable / disable setting of the standard remote controller prohibition function” has been set to enable.

- 1** Enter the control mode to select the central control number (the indoor units), so that the relevant standard remote controllers whose centrally controlling items need to be set are also selected. Refer to “3-3. CONTROL MODE” for details about control modes.




2

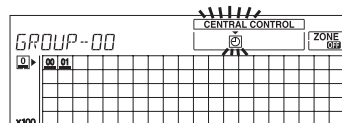
Press  to start setting of the centrally controlling items.
An item selection cursor will appear.




3

Press  and use the cursor to select the centrally controlling items to be performed.
A symbol will come on for the item that are being set.

- Symbols will go out for those items that are not being set. When it becomes aligned with the cursor, it will start to flash.

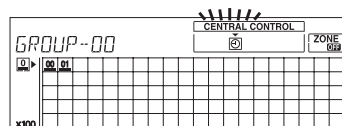


4

Press  to set the centrally controlling item to be performed.

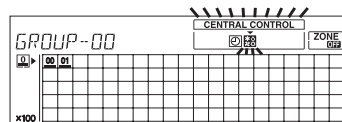
Press  to cancel the item.

- The symbol comes on after the setting of the centrally controlling item.
- Select **ALL** and all those other symbols will go out because this centrally controlling item includes all those other controlling items by prohibiting all operation settings of standard remote controller.




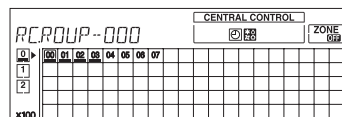
5

Repeat the operations of step 3 and step 4 to perform the desired central control.



6

When all the settings have been completed, press  to end up the centrally controlling settings of the standard remote controllers.



7

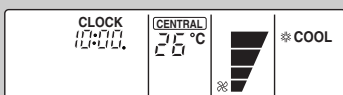
It is necessary to transmit the newly set information to the relevant indoor units.
Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

Notes



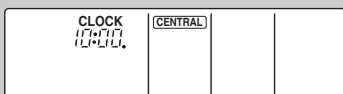
- When several of central remote controllers have been connected in one system, the centrally controlling items, can be set or removed by using any central remote controller in the system. If the set centrally controlling items are not hoped to be removed by setting other central remote controllers, please set the DIP-SW 2-5 "enable / disable setting of the standard remote controller prohibition function" to disable position. (It is recommended that only the host central remote controller should be set to enable and the others should be set to disable.)
- Standard remote controller operation

Wired: If **CENTRAL** is shown on the LCD of the wired remote controller, some settings performed on the wired remote controller becomes invalid due to the setting of the central remote controller.



(Example 1)

This example shows the case that NO timer setting can be done on this wired remote controller due to the operation prohibition setting



(Example 2)

The example shows the case that all of the setting items have been restricted due to the operation prohibition setting of **ALL**.

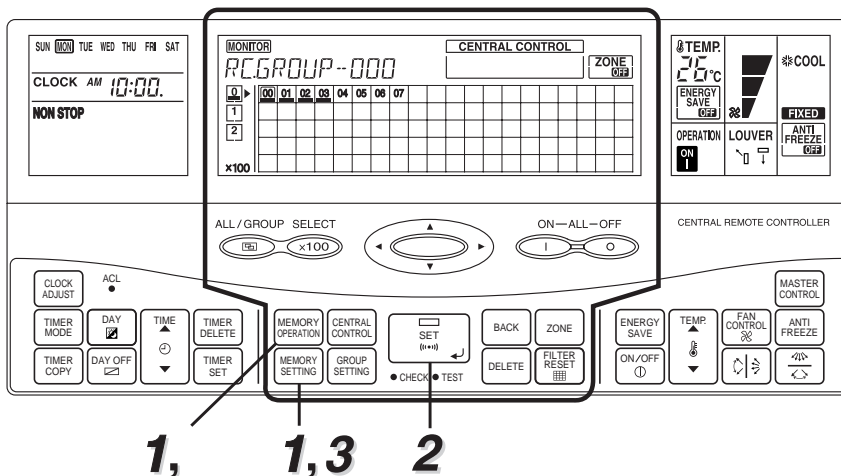
Wireless: When the setting items of wireless remote controller has been restricted by the central remote controller, the setting on the restricted item performed by this wireless remote controller will be rejected with a beeping sound "Beep, Beep, Beep, Beep, Beep".

4-3. MEMORY OPERATION

The memory operation can reproduce the operating conditions, which have been saved beforehand, by only one touch of MEMORY SETTING button.

4-3-1. Memory operation settings

Before operating a memory operation, the memory operation setting must be performed so that the operating conditions will be prepared in a memory.

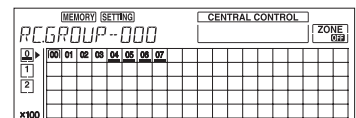


1

Press **MEMORY SETTING**.

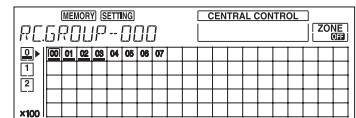
MEMORY SETTING will come on and the unit is in memory operation setting mode.

- In memory operation setting mode, the contents of the saved memory operation settings are displayed. Press and to check the contents.



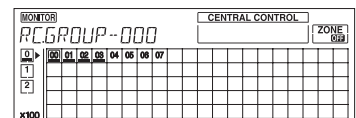
2

Press **SET (H=H)** and the current operating conditions are saved.



3

Press **MEMORY SETTING** again to end the memory operation setting mode.



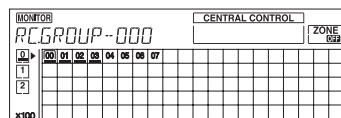
4-3-2. Memory operation

The memory operation is performed and the saved operating conditions come on to the display.

1

Press .

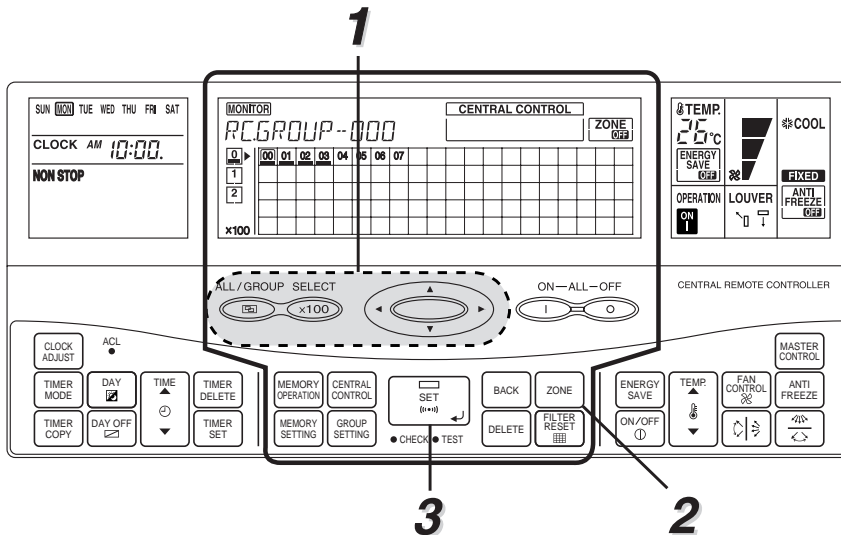
After receiving the necessary data from the central remote controller, the indoor unit starts a memory operation.



4-4. ZONE SETTING

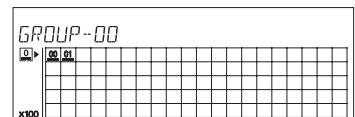
When the ZONE button is pressed, the actual operation condition (ON or OFF) of the selected indoor units is determined by the set position of the DIP switch in the indoor unit.

4-4-1. To start zone operation



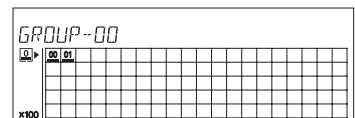
1

Enter the control mode to select the central control group (the indoor units) whose zone operation is to be performed. Refer to “3-3. CONTROL MODE” for details about control modes.



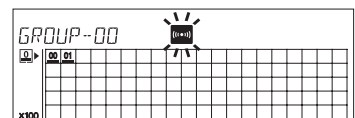
2

Press **ZONE**. **ZONE ON** will appear.



3

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

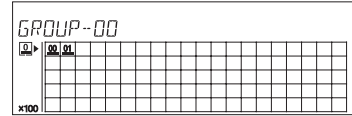


4-4-2. To end zone operation

1

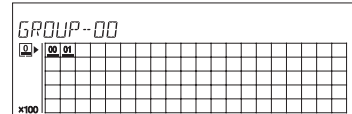
Enter the control mode to select the central control group (the indoor units) whose zone operation is to be ended.

Refer to “3-3. CONTROL MODE” for information about control modes.



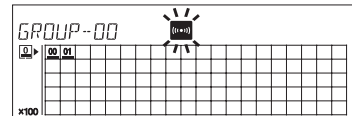
2

Press **ZONE** once again. **ZONE OFF** will appear.



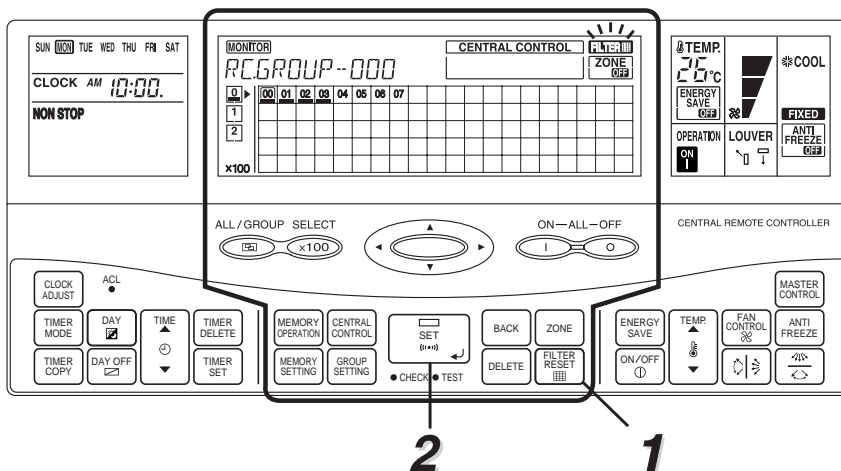
3

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.



4-5. FILTER INDICATOR RESET

The filter indicator flashes when the filter needs to be cleaned or exchanged.



When the working time of the filter reached the set time, the indicator **FILTER** and cursor **00** associated with the indoor unit will flash in order to inform you that the filter needs to be cleaned or exchanged.

• Operation display mode /

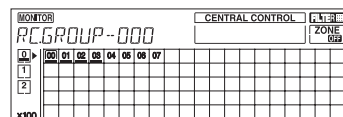
Individual control mode **FILTER** will flash if the filter of an indoor unit in the currently displayed remote control group needs to be cleaned or exchanged.

• **Group control mode** **FILTER** will flash if the filter of any indoor unit in the group currently displayed needs to be cleaned or exchanged.

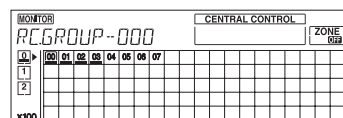
• **All control mode** **FILTER** will flash if the filter of any indoor unit in the system needs to be cleaned or exchanged.

After the filter has been cleaned, or exchanged please reset the filter indicator by:

1 Press **FILTER RESET**.
FILTER will stop flashing and LED **SET (H+0)** will light up.



2 Press **SET (H+0)** to send the filter reset signal to selected indoor units, when the signal transmission. Transmission is made. **FILTER** and **00** will go out.



Note



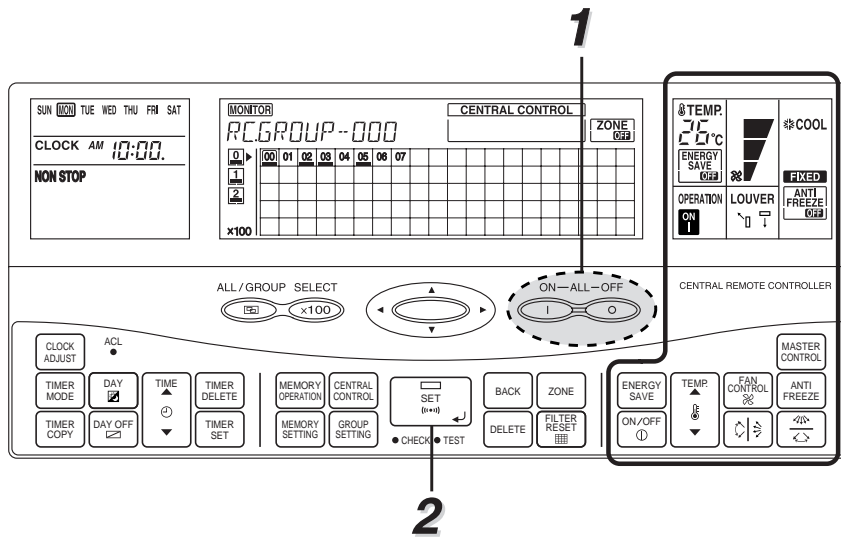
Since there is a need to enable the filter indicator function, please consult your sales representative.

5. OPERATION SETTING METHOD (OPERATION CONTROL AREA)

This section explains the methods on operation setting using the buttons in operation control area of the central remote controller.


5-1.	ALL OPERATION / ALL STOP	32
5-2.	OPERATION / STOP	33
5-3.	OPERATING MODE SETTING	35
5-4.	TEMPERATURE SETTING	38
5-5.	FAN SPEED SETTING	39
5-6.	FLOW DIRECTION SETTING (VERTICAL)	41
5-7.	FLOW DIRECTION SETTING (HORIZONTAL)	44
5-8.	SWING SETTING	46
5-9.	ENERGY SAVE OPERATION SETTING	50
5-10.	ANTI FREEZE OPERATION	53

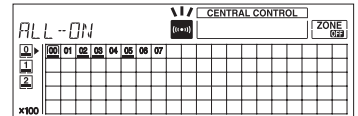
5-1. ALL OPERATION / ALL STOP



5-1-1. All operation


1

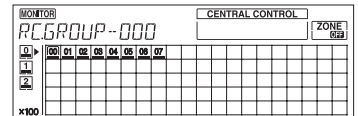
Press . **ALL --ON** will light up. An all operation signal will be transmitted in the system immediately.



2

A beep sound "Beep Be" signals the end of the transmission.

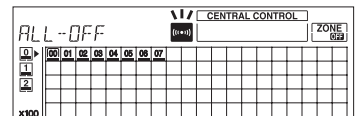
When the transmission has been completed,  and **ALL --ON** will go out.



5-1-2. All stop


1

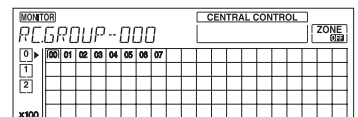
Press . **ALL --OFF** will light up. An all stop signal will be transmitted in the system immediately.



2

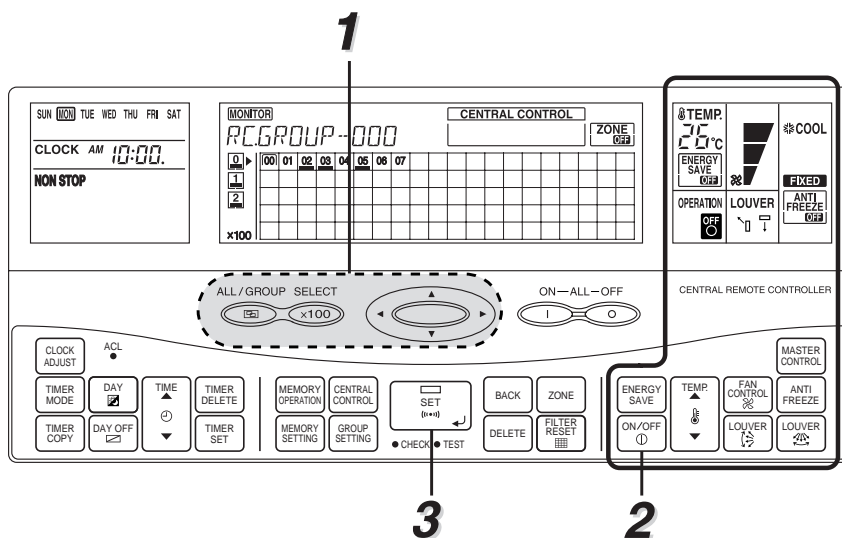
A beep sound "Beep Be" signals the end of the transmission.

When the transmission has been completed,  and **ALL --OFF** will go out.

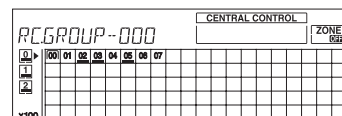


5-2. OPERATION / STOP

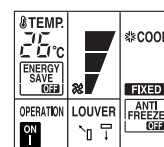
5-2-1. To start operation



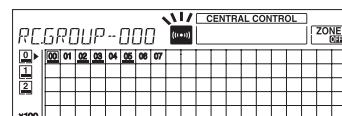
- 1 Enter the control mode to select the central control number (the indoor units) to start its operation. Refer to “3-3. CONTROL MODE” for information about control modes.



- 2 Press **ON/OFF** and **OPERATION** will light up. The setting is applied to the indoor units associated with the selected central control number. Because of the change of the setting, LED **SET** will come on.



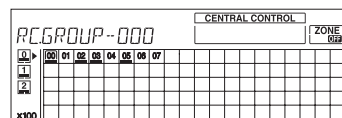
- 3 It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.



5-2-2. To stop operation

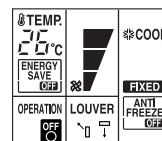
1

Enter the control mode to select the central control number (the indoor units) to stop its operation. Refer to “3-3. CONTROL MODE” for information about control modes.



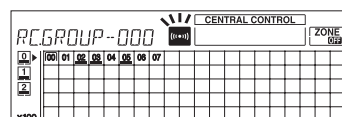
2

Press **ON/OFF** and **OPERATION OFF** will light up. The setting is applied to the indoor units associated with the selected central control number. Because of the change of the setting, LED **SET** will come on.

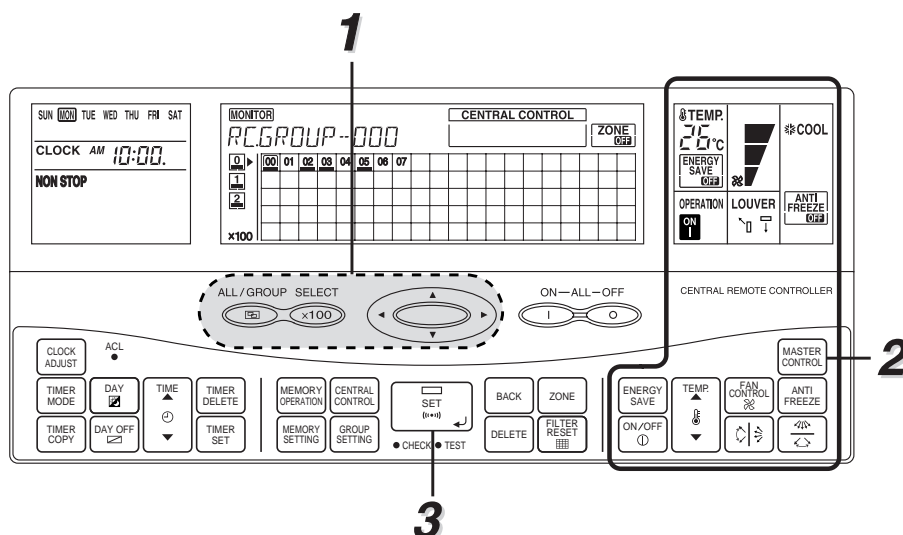


3

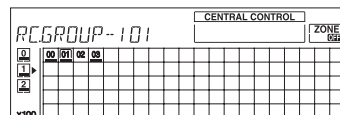
It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.



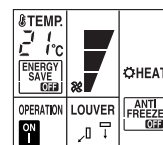
5-3. OPERATING MODE SETTING



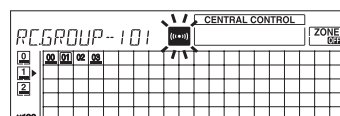
- 1 Enter the control mode to select the central control number (the indoor units) whose operating mode needs to be changed. Refer to “3-3. CONTROL MODE” for information about control modes.



- 2 Press **MASTER CONTROL** to select the desired operating mode. The setting is applied to the indoor units associated with the selected central control number. Because of the change of the setting, LED **SET (H-H)** will come on.



- 3 It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.



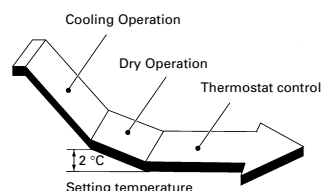
Notes

- ⚠ * Cannot be set in **HEAT PUMP TYPE** refrigerant system.
- ⚠ ** Cannot be set in **COOLING ONLY TYPE** refrigerant system.
- ⚠ When a group is comprised of indoor units which are in different types of refrigerant systems (**HEAT RECOVERY TYPE / HEAT PUMP TYPE / COOLING ONLY TYPE**), it is still possible to do an operating mode setting for the group. However, the newly set operating mode will be conducted only by those remote control groups in the group, when the newly set operating mode can be conducted by them.
- ⚠ When a heating operation mode is attempted on a cooling only type refrigerant system, the central control number will flash and the set operating mode will not be conducted. This occurs when a group comprised of indoor units with different types of refrigerant systems (heat recovery type / cooling & heat pump type / cooling only type). Actually, the operating command is sent to the relevant indoor units, but the command will not be conducted by those indoor units when the set operating mode is not permitted by the type of refrigerant system where they exist.

About operating modes

AUTO ..COOLING MODEL

- When the room temperature is 2 °C higher than the set temperature, the operating mode will switch between Cooling and Drying.
- During the Drying mode operation, the FAN setting should be switched to LOW for a gently cooling effect during which the fan may temporarily stop rotating.
- If the mode automatically selected by the unit is not satisfactory, see above and change the mode setting (COOL , FAN).



AUTO (AUTO CHANGE OVER) ..HEAT&COOL MODEL (Reverse cycle)

- When AUTO CHANGE OVER is selected, the air conditioner selects the appropriate operating mode (Cooling or Heating) according to the real room temperature.
- When AUTO CHANGE OVER is first selected, the fan will operate at very low speed for about one minutes while the unit determines the current conditions of the room and accordingly selects the proper operation mode.
- When the air conditioner has adjusted the room temperature to near the thermostat setting, it will being monitor operation. In the monitor operation mode, he fan will operate at low speed. If the room temperature subsequently changes, the air conditioner will select the appropriate operation (Heating, Cooling) once again to adjust the temperature to the value set with the thermostat. (The monitor operation range is ± 2 °C relative to the thermostat setting.)
- If the mode automatically selected by the unit is not satisfactory, see above and change the mode setting (HEAT, COOL, FAN).
- Do not select AUTO CHANGE OVER if the difference in the environmental temperature of the master and slave units is over 2 °C. (Otherwise, the indoor fan may not be controlled correctly.)

Heating

- Use to warm your room.
- When Heating mode is selected, the air conditioner will operate at very low fan speed for about 3 to 5 minutes, after which it will switch to the selected fan speed setting. This period of time is provided to allow the indoor units to warm up before a full operation.
- When the room temperature is very low, frost may form on the outdoor unit, therefore, the performance of the outdoor unit will decrease. In order to remove such frost, the unit will automatically enter the defrost cycle from time to time. During defrosting, the heating mode will be temporarily interrupted **DEFROST** will be shown on the remote controller display.

Cooling

- Use to cool your room.

Fan

- Use to circulate the air throughout your room.

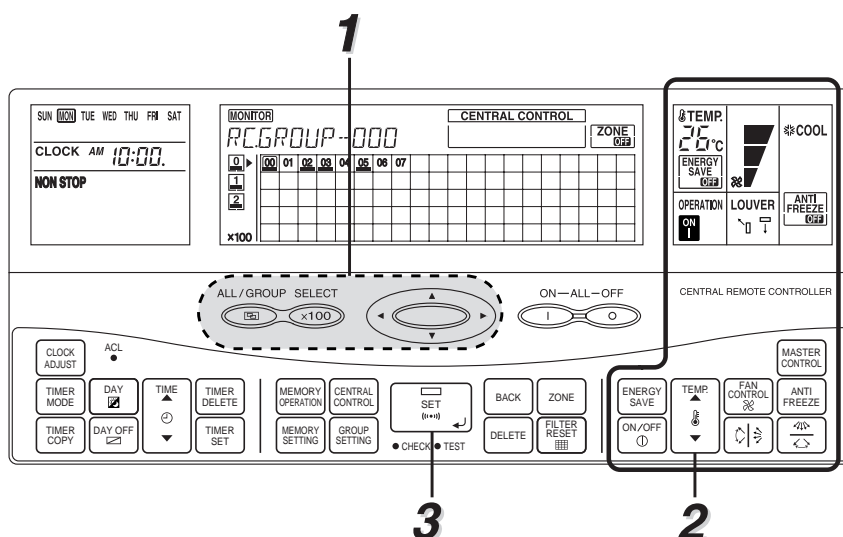
During Heating

The set thermostat temperature should be higher than the actual room temperature, otherwise the heating mode does not work.

During Cooling

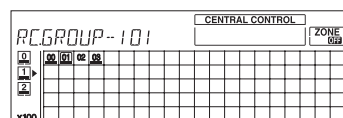
The set thermostat temperature should be lower than the actual room temperature, otherwise the cooling mode does not work, however the fan will rotate in cooling mode.

5-4. TEMPERATURE SETTING





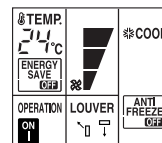
1

Enter the control mode to select the central control number (the indoor units) whose temperature needs to be changed. Refer to “3-3. CONTROL MODE” for information about control modes.



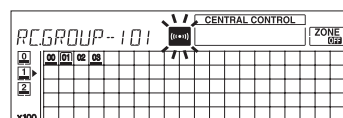
2

Press  to set the desired temperature. The setting is applied to the indoor units associated with the selected central control number. Because of the change of the setting, LED  will come on.



3

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.



Notes



- ▲: Press to raise the thermostat setting.
- ▼: Press to lower the thermostat setting.

- Thermostat setting range

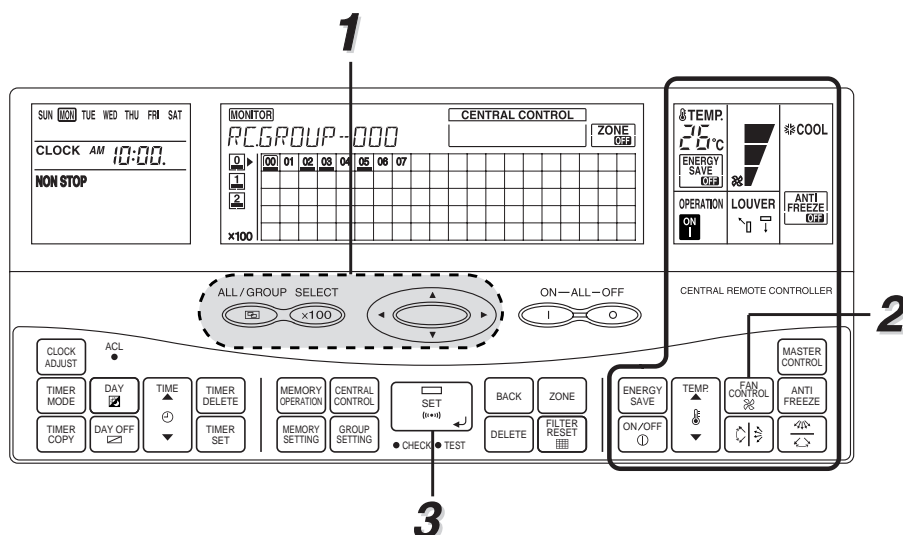
AUTO 18 to 30 °C

Heating 16 to 30 °C

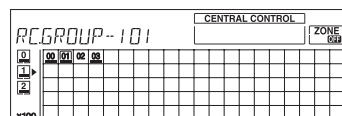
Cooling / Dry 18 to 30 °C

- The thermostat cannot be used to set room temperature during the FAN mode (the temperature will not appear on the display of the central remote controller).
- The thermostat setting should be considered a standard value, and may differ somewhat from the room temperature.

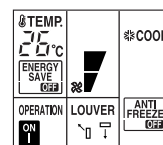
5-5. FAN SPEED SETTING



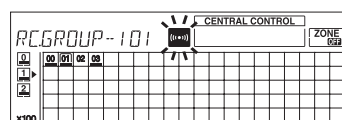
1 Enter the control mode to select the central control number (the indoor units) whose fan speed needs to be changed. Refer to “3-3. CONTROL MODE” for information about control modes.



2 Press **FAN CONTROL** to set the desired for speed. The setting is applied to the indoor units associated with the selected central control number. Because of the change of the setting, LED **SET (H=H)** will come on.



3 It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.



About the AUTO setting of fan speed

Heating: Fan operates so as to optimally circulate warmed air. However, the fan will operate at very low speed when the temperature of the air issued from the indoor unit is low.

Cooling: As the room temperature approaches that of thermostat setting, the fan speed becomes slower.

Fan: The fan alternately turns on and off; when the fan turns on, it rotates at a low fan speed.

- The fan will operate at a very low speed during the monitor operation by which the room temperature is deleted.

Note

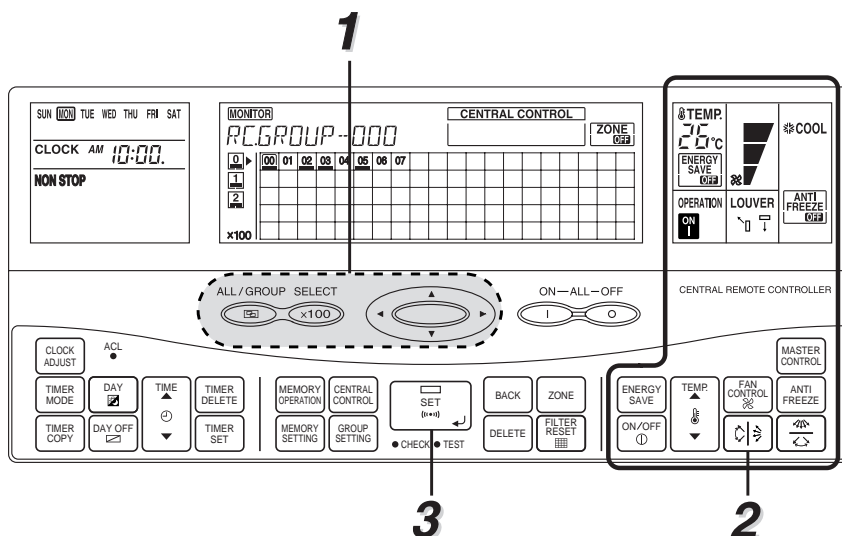


If fan speed setting is attempted on a cooling & heat pump type refrigerant system, the central control number will flash and fan operation will not be affected by the settings.

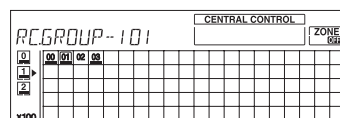
This occurs when a group is comprised of indoor units which are in different types of refrigerant systems. (HEAT RECOVERY TYPE / HEAT PUMP TYPE / COOLING ONLY TYPE) (Actually, the command for the fan speed setting is sent to the relevant indoor units, it will not be conducted by those indoor units where the fan speed setting is not permitted by the type of refrigerant system where they exist.)



5-6. FLOW DIRECTION SETTING (VERTICAL)

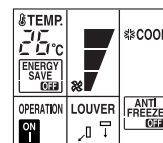
This instructions are applicable to “CEILING SUSPENSION TYPE”, “FLOOR CONSOLE / UNDER CEILING DUAL TYPE”, “CASSETTE TYPE” and “WALL MOUNTED TYPE”.



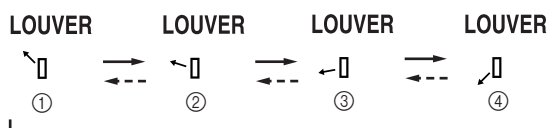
1 Enter the control mode to select the central control number (the indoor units) whose vertical flow direction needs to be changed. Refer to “3-3. CONTROL MODE” for information about control modes.



2 Press  to adjust the flaps angle in order to generate a desired vertical airflow. The setting is applied to the indoor units associated with the selected central control number. Because of the change of the setting, LED  will come on.

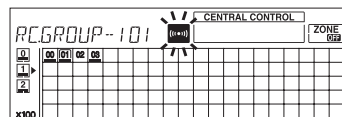


Each time the button is pressed, the air direction as shown in the display will change as follows;



3

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

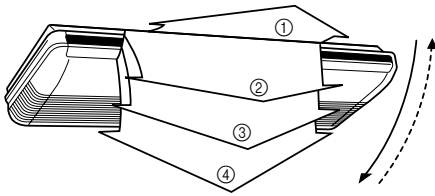


Notes

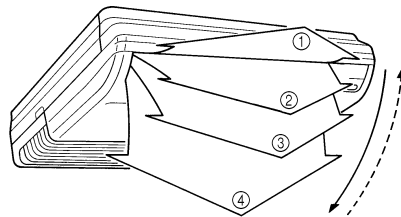


- At the beginning the vertical airflow direction is set automatically as shown, in accordance with the type of operation selected.
During cooling mode: Horizontal flow ①
During heating mode: Downward flow ④
- The air direction can be adjusted within the range shown below.
- During AUTO mode operation, for the first minute after beginning operation, airflow will be horizontal flow ①; the air direction cannot be adjusted during this period.
- If the direction setting is set at the same time as operation mode setting, the indoor unit will follow the flow direction setting that has been set.

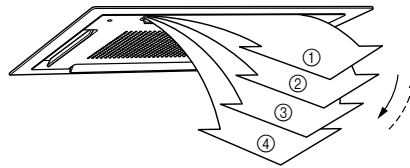
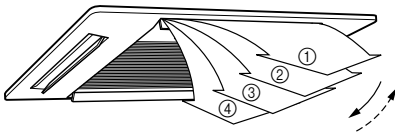
■ CEILING SUSPENSION TYPE



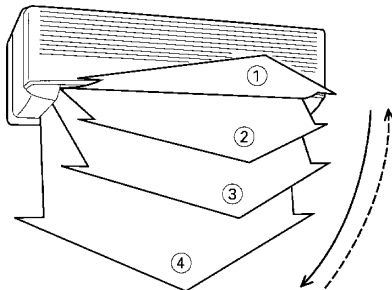
■ FLOOR CONSOLE/UNDER CEILING DUAL TYPE



■ CASSETTE TYPE



■ WALL MOUNTED TYPE



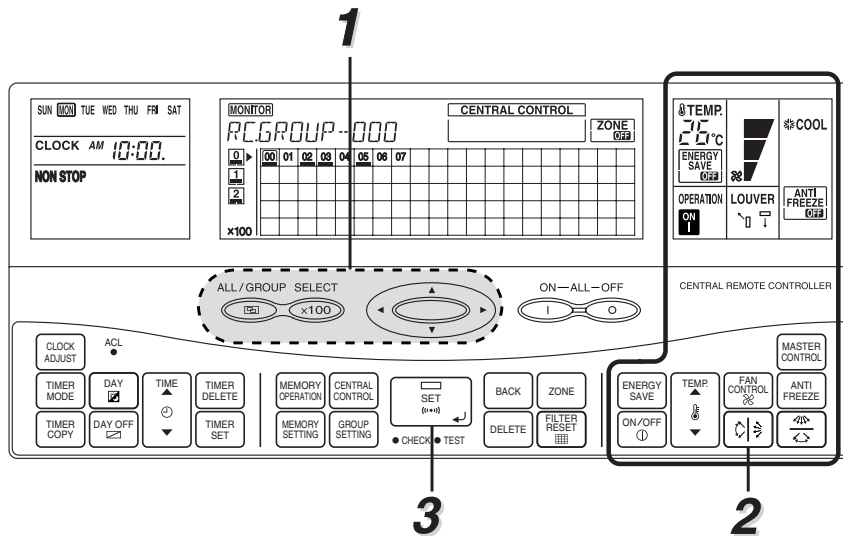
Notes



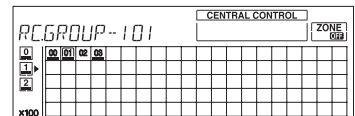
- Always use the remote controller's AIR FLOW DIRECTION button to adjust the UP / DOWN air direction louvers. Attempting to move them manually could result in improper operation; in this case, stop operation and restart. The flaps should begin to operate properly again.
- During use of the Cooling mode, do not set the UP / DOWN air direction flap in the ④ position for a long period of time, since water vapor may condense near the outlet port and drops of water may drip from the air conditioner.
- When used in a room with infants, children, elderly or sick persons, the air direction and room temperature should be considered carefully when making setting.



5-7. FLOW DIRECTION SETTING (HORIZONTAL)

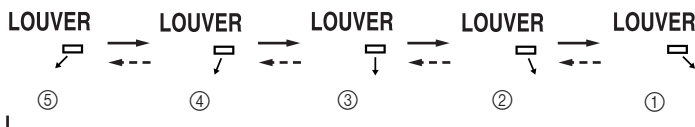
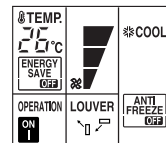
This instructions are applicable to “CEILING SUSPENSION TYPE”, “FLOOR CONSOLE / UNDER CEILING DUAL TYPE”, and “WALL MOUNTED TYPE”.



1 Enter the control mode to select the central control number (the indoor units) whose horizontal flow direction needs to be changed. Refer to “3-3. CONTROL MODE” for information about control modes.

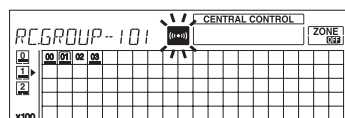


2 Press  to adjust the flaps angle in order to generate a desired horizontal airflow. The setting is applied to the indoor units associated with the selected central control number. Because of the change of the setting, LED  will come on. Each time the button is pressed, the air direction as shown in the display will change as follows;

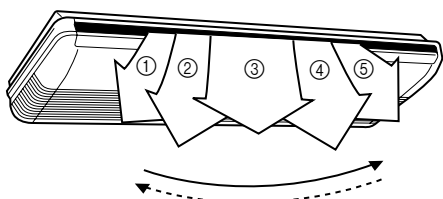


3

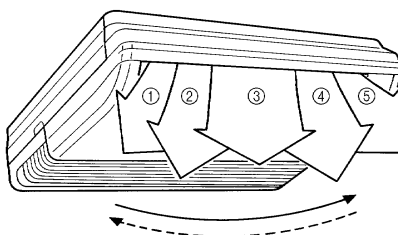
It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.



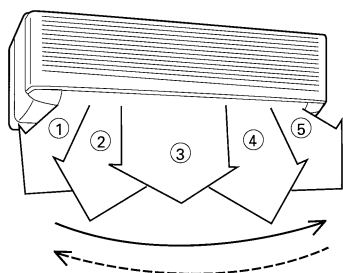
■ CEILING SUSPENSION TYPE



■ FLOOR CONSOLE/ UNDER CEILING DUAL TYPE

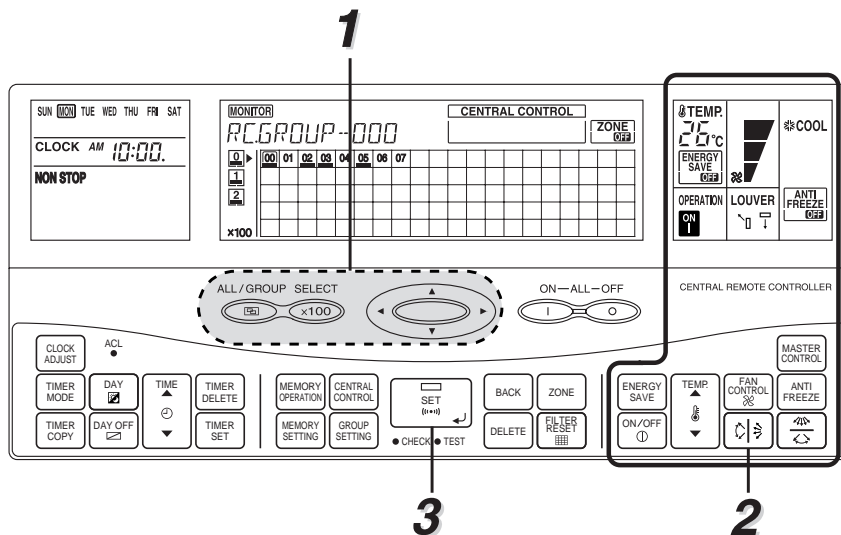


■ WALL MOUNTED TYPE



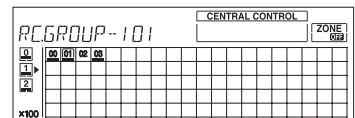
5-8. SWING SETTING

5-8-1. To select vertical airflow swing operation






1

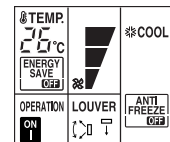
Enter the control mode to select the central control number (the indoor units) whose vertical airflow is desired to swing automatically. Refer to “3-3. CONTROL MODE” for information about control modes.



2

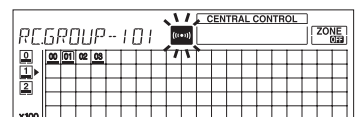
Press  for 2 seconds or more and the  shown in the display will change to the .

In this mode, the UP / DOWN air direction flaps will swing automatically to direct the airflow both up and down.



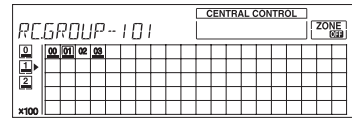
3




It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

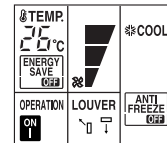


5-8-2. To cancel the vertical airflow swing operation

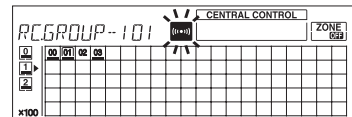
- 1 Enter the control mode to select the central control number (the indoor units) whose vertical airflow swing operation is to be cancelled.



- 2 Press  for 2 seconds or more and the  shown in the display will change to the . The flaps will return to the positions from which the swing operation started out.



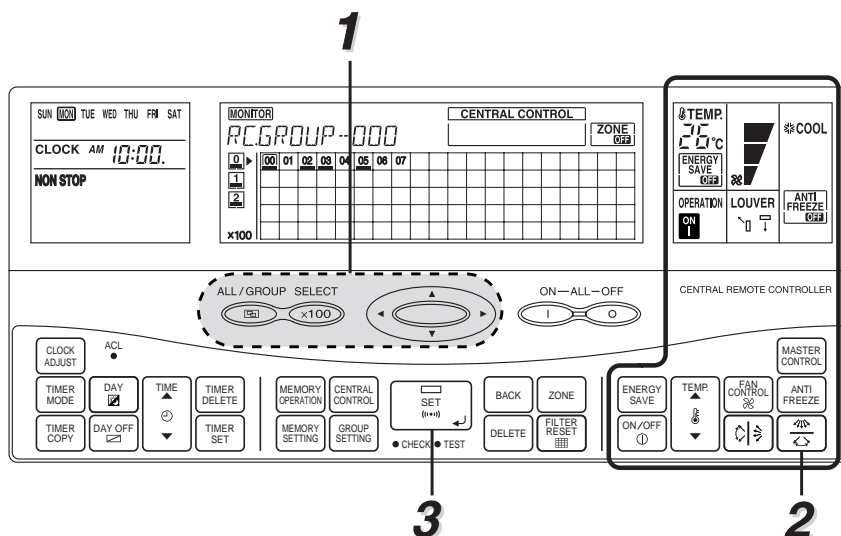
- 3 It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of "3-3. CONTROL MODE" for details.



About Vertical Airflow Swing Operation

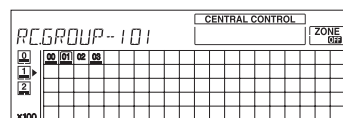
- The swing range can be adjusted with the remote controller's VERTICAL AIR FLOW DIRECTION SET button.
- The SWING operation may stop temporarily when the air conditioner's fan is not operating, or is operating at very low speeds.
- During use of the Cooling mode, do not set the air UP / DOWN direction flap, in the ④ position (shown in page 45) for a long period of time, since water vapor may condense near the outlet port and drops of water may drip from the air conditioner.

5-8-3. To select horizontal airflow swing operation






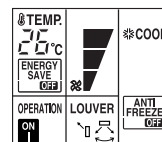
1

Enter the control mode to select the central control number (the indoor units) whose horizontal airflow is desired to swing automatically. Refer to “3-3. CONTROL MODE” for information about control modes.



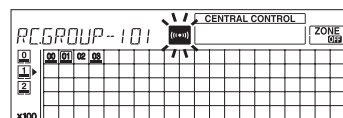
2

Press  for 2 seconds or more and the  shown in the display will change to the . In this mode, the right / left air direction flaps will swing automatically to direct the airflow to both the right and the left.



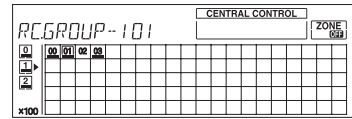
3




It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

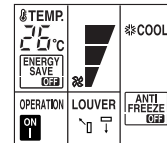


5-8-4. To cancel horizontal airflow swing operation

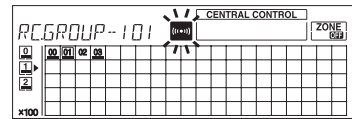
- 1 Enter the control mode to select the central control number (the indoor units) whose horizontal airflow swing operation needs to be cancelled. Refer to “3-3. CONTROL MODE” for information about control modes.



- 2 Press  for 2 seconds or more and the  shown in the display will change to the .



- 3 It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

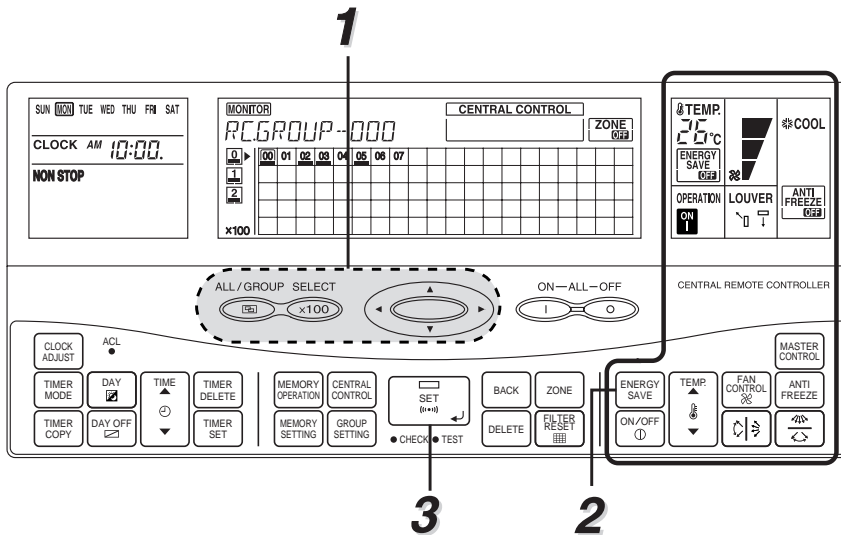


About Horizontal Airflow Swing Operation

- The swing range can be adjusted with the remote controller's HORIZONTAL AIR FLOW DIRECTION SET button.
- The SWING operation may stop temporarily when the air conditioner's fan is not operating, or is operating at very low speeds.

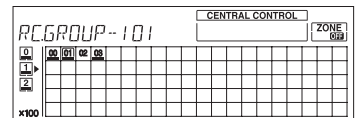
5-9. ENERGY SAVE OPERATION SETTING

5-9-1. To select the energy save operation



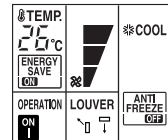
1

Enter the control mode to select the central control number (the indoor units) whose energy save operation is to be started. Refer to “3-3. CONTROL MODE” for information about control modes.



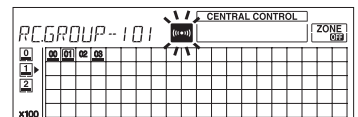
2

Press **ENERGY SAVE**. **ENERGY SAVE ON** will light up.



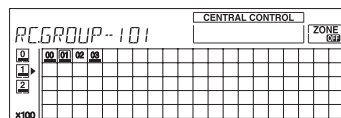
3

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

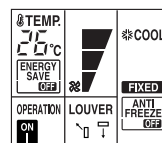


5-9-2. To cancel the energy save operation

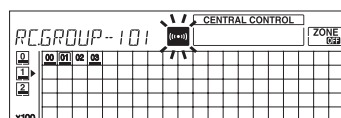
- 1 Enter the control mode to select the central control number (the indoor units) whose energy save operation is to be cancelled.



- 2 Press **ENERGY SAVE** again. **ENERGY SAVE** will light up.



- 3 It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of "3-3. CONTROL MODE" for details.



Note



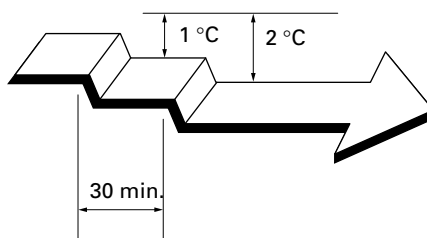
The energy save mode can only be applied to the operating modes of "COOL", "DRY" and "HEAT".

About the ENERGY SAVE

- The energy conservation mode (ENERGY SAVE) raises the set temperature slightly in the cooling mode and lowers the set temperature in the heating mode, using a computer program to economically control the operation of the unit.
- If you press the ENERGY SAVE button while the air conditioner is on, it will change to the conservation mode. If you press the ENERGY SAVE button while the unit is in the time mode (ON timer1, ON timer2, or WEEKLY timer), the unit will go into the conservation mode when the unit starts with the timer.
- If you turn off the air conditioner while in the conservation mode, the mode will be shut off.
- The temperature set on the remote controller will not change if the energy save mode is used.

■ When Heating

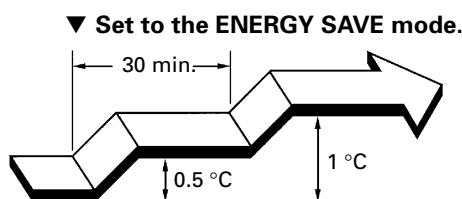
After the ENERGY SAVE button is pressed, the set temperature will be lowered about 1 °C every 30 minutes. When it has lowered a total of 2 °C, then it will hold the temperature.



▲ Set to the ENERGY SAVE mode.

■ When Cooling

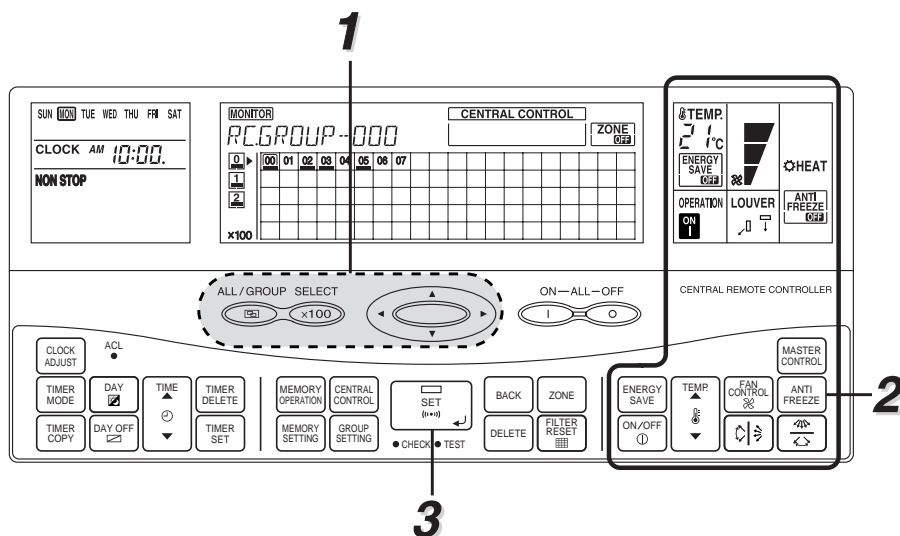
After the ENERGY SAVE button is pressed, the set temperature will be raised about 0.5 °C every 30 minutes. When it has lowered a total of 1 °C, then it will hold the temperature.



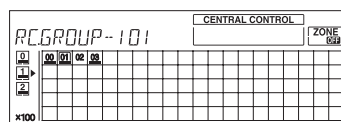
▼ Set to the ENERGY SAVE mode.

5-10. ANTI FREEZE OPERATION

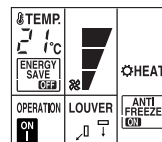
5-10-1. To select the anti freeze operation



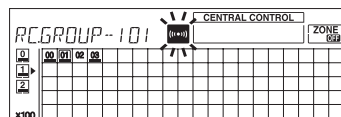
- 1** Enter the control mode to select the central control number (the indoor units) whose anti-freeze operation is to be started. Refer to “3-3. CONTROL MODE” for information about control modes.



- 2** Press **ANTI FREEZE** . **ANTI FREEZE ON** will come on.



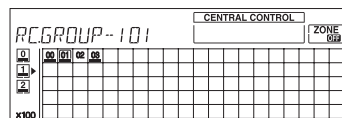
- 3** It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.



5-10-2. To cancel the anti freeze operation

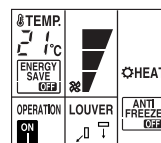
1

Enter the control mode to select the central control number (the indoor units) whose the anti-freeze operation is to be cancelled.



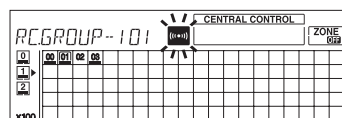
2

Press **ANTI FREEZE** once again. **ANTI FREEZE ON** will switch to **ANTI FREEZE OFF**.



3

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of "3-3. CONTROL MODE" for details.



About the ANTI FREEZE

The ANTI FREEZE operation is only enabled when the indoor unit is in a standby mode waiting for an ON signal from timer or is stopped by **ON/OFF ①**. Whenever the room temperature becomes low, it automatically sets the fan to low speed and starts the heating operation. This operation stops when the temperature in the room rises above a preset level.

6. TIMER SETTING METHOD (TIMER CONTROL AREA)

This section explains the methods on timer setting using the buttons in timer control area of the central remote controller.

6-1. OFF TIMER	56
6-2. ON TIMER1	58
6-3. ON TIMER2	60
6-4. WEEKLY TIMER	62
6-5. CLOCK SETTING	72

The timers built in the central remote controller have four different operating modes. They are shown as the following and can be selected only one from the four modes.

- OFF TIMER Stop the indoor units at the set time.
- ON TIMER1 Start the indoor units at the set time.
- ON TIMER2 Start operation of the indoor units beforehand in order to make the room temperature reaches the set temperature at the set time.
- WEEKLY TIMER.... Weekly timer setting function. Up to two on / off settings for each day of the week. (Refer to 6-4. WEEKLY TIMER)

Notes



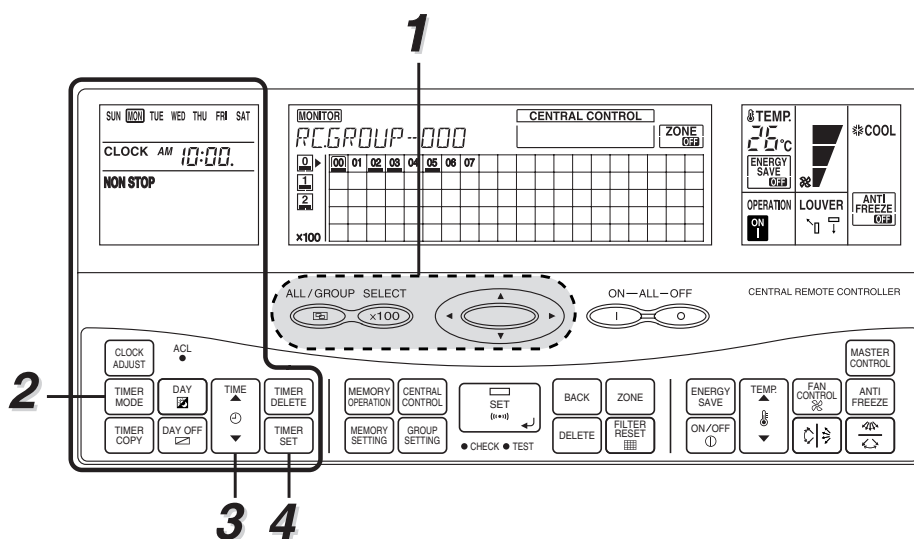
Timer settings in multiple locations

- If the on timer setting is also performed by the standard remote controller, the standard remote controller timer will have priority.
(If there is an on command from the central remote controller to the indoor units, the indoor units will not start to operate.)
- If timer settings are performed simultaneously at central remote controllers at multiple locations (central remote controller 1, central remote controller 2,...), the indoor units will follow the command of the central remote controller that the last control signal will send out.

Stop timer operation

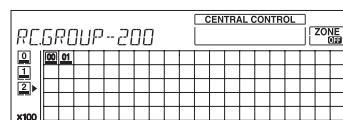
- An electricity failure will cancel all set time. The setting will become non stop setting.

6-1. OFF TIMER




1

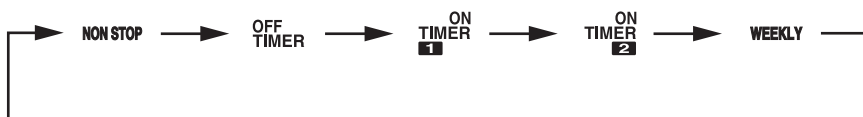
Enter the control mode to select the central control number (the indoor units) for the setting. Refer to "3-3. CONTROL MODE" for information about control modes.



2

Press  until the segments of the **OFF TIMER** appear on the display. Each time the button is pressed, the timer function changes in the following order.

SUN	MON	TUE	WED	THU	FRI	SAT
CLOCK 12:00						
OFF TIMER 0:00 OFF						




3

Press  to adjust the off time.

▲: Press to advance time.
▼: Press to reverse time.

SUN	MON	TUE	WED	THU	FRI	SAT
CLOCK 12:00						
OFF TIMER 18:10 OFF						

4

Once the timer time has been changed, press  to confirm the setting.

SUN	MON	TUE	WED	THU	FRI	SAT
CLOCK 12:00						
OFF TIMER 18:10 OFF						

5

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

Notes

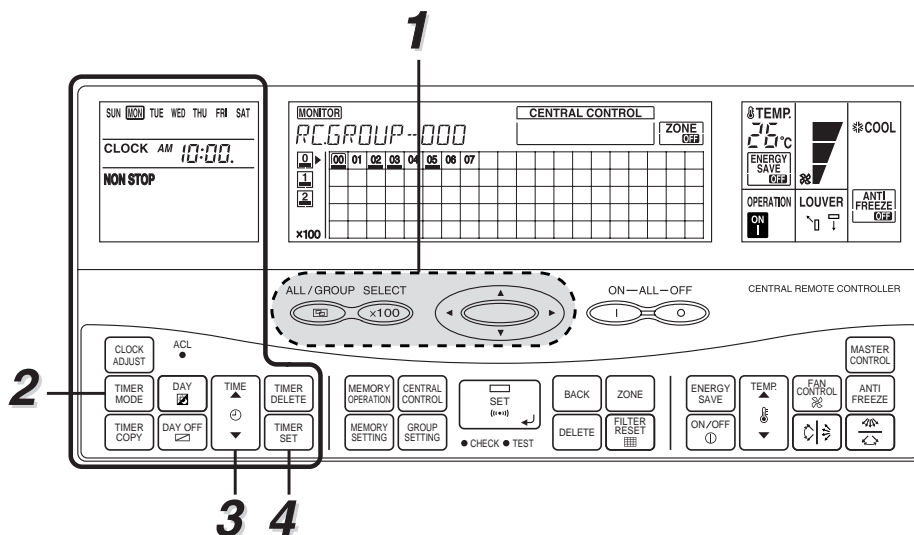


- To change the set time during operation. Perform steps 1 → 3
- To change the timer mode during operation. Perform steps 1 → 2
- To cancel the timer operation.

Press the  and set the display to **NON STOP** in step 2 (the indoor units will switch to non stop operation).

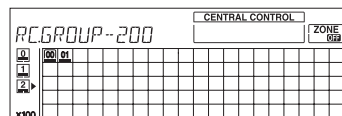
- To stop operation during use of timer mode. Following the procedures of “5-2. OPERATION / STOP” to stop the operation of the indoor units.

6-2. ON TIMER1



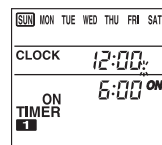
1

Enter the control mode to select the central control number (the indoor units) for the setting. Refer to "3-3. CONTROL MODE" for information about control modes.



2

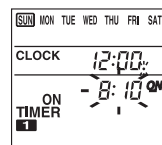
Press **TIMER MODE** until the segments of the **ON TIMER 1** appear on the display. Each time the button is pressed the timer function changes in the following order.



3

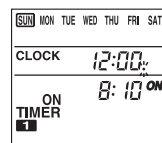
Press **TIME** to adjust the ON TIMER1 time.

▲: Press to advance time.
▼: Press to reverse time.



4

Once the timer time has been changed, press **TIMER SET** to confirm the setting.



5

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

Notes

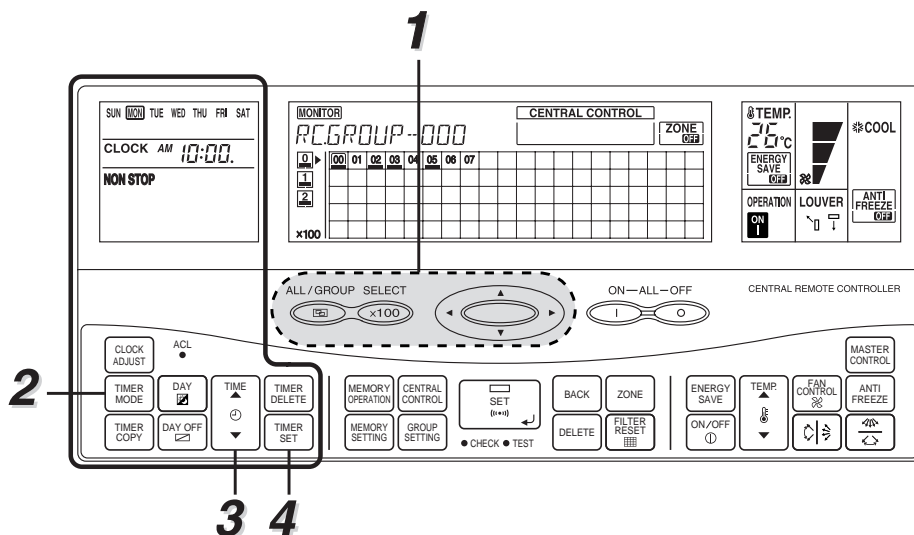


- To change the set time during operation.
Perform steps 1 → 3
- To change the timer mode during operation.
Perform steps 1 → 2
- To cancel the timer operation.

Press the  and set the display to **NON STOP** in step 2 (the indoor units will switch to non stop operation).

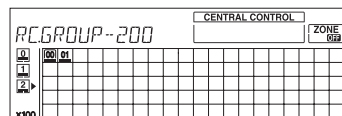
- To stop operation during use of timer mode.
Following the procedures of “5-2. OPERATION / STOP” to stop the operation of the indoor units.

6-3. ON TIMER2



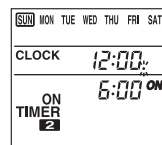
1

Enter the control mode to select the central control number (the indoor units) for the setting. Refer to "3-3. CONTROL MODE" for information about control modes.



2

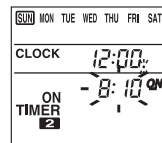
Press **TIMER MODE** until the segments of the **TIMER 2** appear on the display. Each time the button is pressed the timer function changes in the following order.



3

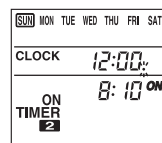
Press **TIME** to adjust the ON TIMER2 time.

▲: Press to advance time.
▼: Press to reverse time.



4

Once the timer time has been changed, press **TIMER SET** to confirm the setting.



5

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

Notes



- To change the set time during operation.
Perform steps 1 → 3
- To change the timer mode during operation.
Perform steps 1 → 2
- To cancel the timer operation.

Press the  and set the display to **NON STOP** in step 2 (the indoor units will switch to non stop operation).

- To stop operation during use of timer mode.
Following the procedures of “5-2. OPERATION / STOP” to stop the operation of the indoor units.

About the ON TIMER2

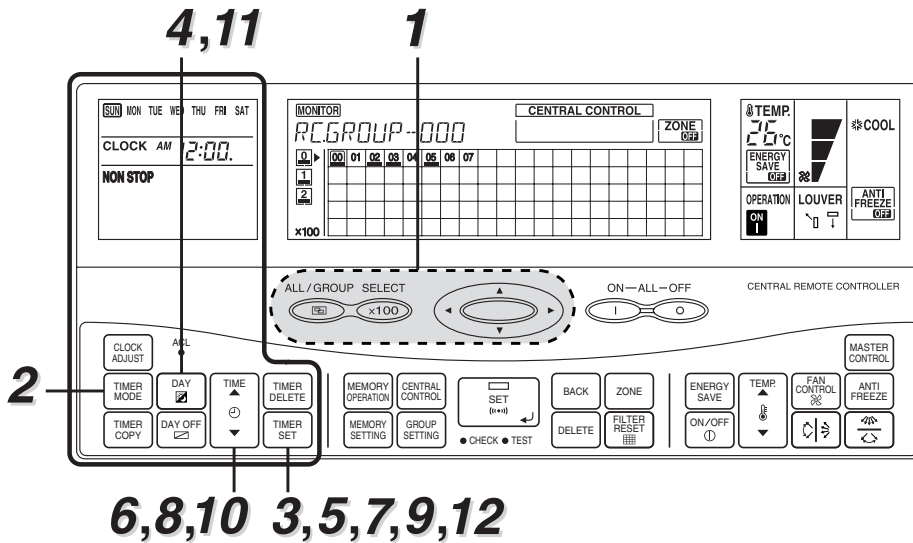
- The timer function is designed to bring your room to a comfortable temperature by the set time; as a result, the unit automatically begins operation before the set time so that the room temperature reaches the set temperature by the set time (“Favorite temperature timer”).
- The hotter it is in summer, or the colder it is in winter, the earlier that operation will begin.
During Heating Operation from 45 to 10 minutes before the set time.
During Cooling / Dry Operation from 20 to 10 minutes before the set time.
During Fan Operation at the set time.

6-4. WEEKLY TIMER

Weekly timer features

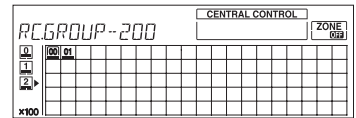
- Set different operating times for each day of the week.
- Set one or two operating spans (one or two pair(s) of ON / OFF times) per day.
- Set time to a resolution of 10 minutes.
- OFF time can be carried over to the subsequent day.
- Use the “DAY OFF” setting to cancel operation for any day of the coming week (one time cancellation).
- Copy and paste can be used for time setting for each day.

6-4-1. Setting up the weekly timer operation



1

Enter the control mode to select the central control number (the indoor units) to be set. Refer to “3-3. CONTROL MODE” for information about control modes.



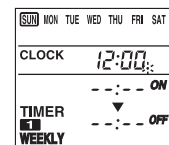
2

Press **TIMER MODE** until the segments of the **TIMER, WEEKLY** appear on the display.

The display now shows the current day (by DAY of the week), the first ON and OFF times for the day (the “WEEKLY1” times).

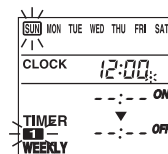
The top time value gives the on time and the bottom one gives the off time.

If either time has not been set, the corresponding time “-- : --” will show on the display.



3

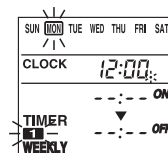
Press **TIMER SET** for 2 seconds.
Enters WEEKLY setting mode.



4

Press **DAY** to select the day that you want to set up.

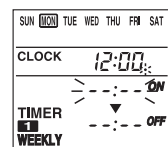
► SUN → MON → TUE → WED → THU → FRI → SAT



Press **TIMER DELETE** to delete the time set for the current day.

5

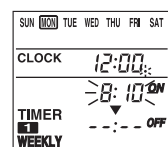
Press **TIMER SET**.
The "WEEKLY1" ON time starts flashing.



6

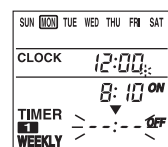
Press **TIME** to adjust the "WEEKLY1" on time.

- ▲: Press to advance time.
- ▼: Press to reverse time.
- Press once to move the time 10 minutes.
- Press **TIMER DELETE** and the currently set time will be deleted.



7

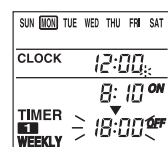
Press **TIMER SET** to store the "WEEKLY1" on time.
As this is done, the on time segments stop flashing and the "WEEKLY1" OFF time starts flashing.



8

Press **TIME** to adjust the "WEEKLY1" off time.

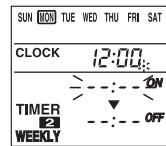
The earliest OFF time you can set is 10 minutes after the ON time. The latest OFF time is 23:50 on the subsequent day.



9

Press  to store the “WEEKLY1” off time.

The setting of the “WEEKLY1” timer is completed and it automatically switches to the “WEEKLY2” setting. The “WEEKLY2” on time starts flashing.



10

Repeat the operations described in steps 6 to 9 to set the “WEEKLY2” ON and OFF time.

After setting the “WEEKLY2” OFF time, press the



to store the “WEEKLY2” OFF time. At the

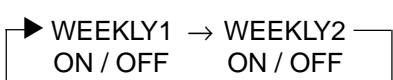
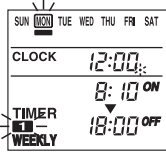
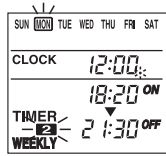
moment, the setting of “WEEKLY2” is also completed. You will be brought back to the step 4. You

can review your setting by pressing




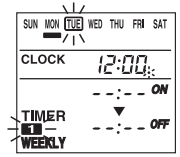
. Each press

moves you to the next setting, as follow.



11

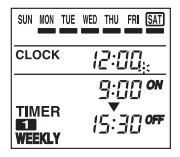
Press  to select another day for set up. The procedures are to repeat steps 5 to 10 mentioned above.



12

When you have finished setting all of the time, hold

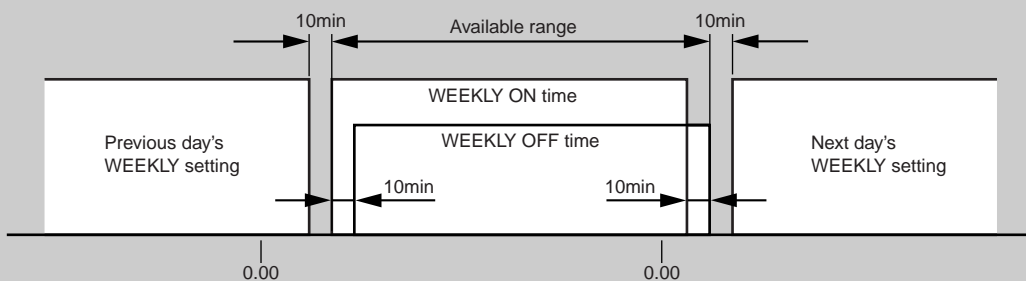
down the  for 2 seconds.



Notes



- A flashing time value indicates that the system is in time-setting mode.
- You do not need to set values for both WEEKLY1 and WEEKLY2. If you wish, you can set values only for WEEKLY1 or only for WEEKLY2.
- The allowable range for the day's time setting is shown below.

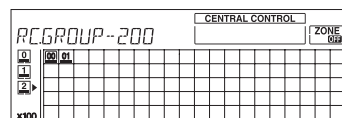


- If the set OFF time goes into the subsequent day, the [**NEXT DAY**] caption appears on the display.

6-4-2. Starting weekly timer operation

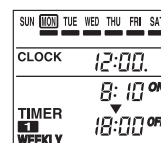
1

Enter the control mode to the central control number (the indoor units) to perform the operation. Refer to “3-3. CONTROL MODE” for information about control modes.



2

Press **TIMER MODE** until the segments of WEEKLY appear on the display. Weekly timer operation starts.



3

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

Notes



To Stop Weekly Timer Operation

To stop weekly timer while leaving the air conditioner running:

Press **TIMER MODE** to select NONSTOP.

To stop weekly timer operation as well as the air conditioner:

Press **ON/OFF** (Refer to “5-2. OPERATION / STOP”).

Reviewing Time Settings

1. Press **TIMER MODE** so that “WEEKLY” appears on the display.

2. Press **TIMER SET** to select setting mode.

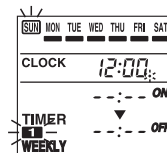
3. Press **DAY** to select the day that you want to check.


4. Press **TIME** to switch between “WEEKLY1” or “WEEKLY2” time displays.

The central remote controller generates each driving pulse signal (ON or OFF) and transmits it to the selected indoor units at (not between) each set time. The operation conditions of the selected indoor units are controlled by these driving pulse signal.

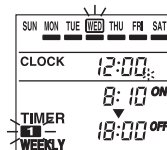
6-4-3. Canceling the selected time setting

- 1 Carry out steps 1 to 3 of the “Setting up the weekly timer operation” procedure.

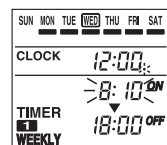



- 2 Press  to select the day that you want to cancel the timer setting.

(Here, press  will delete all set time (WEEKLY1, 2) of the current day.)

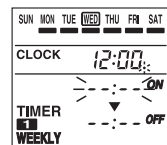



- 3 Press  to enter the setting mode. The “WEEKLY1” ON time starts flashing.

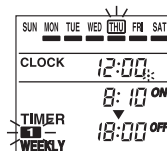



- 4 Press . Then, “WEEKLY1” setting will be deleted and the time display becomes blank “-- : --”.

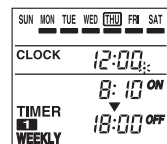
Press  to confirm the setting.



- 5 Press  to return to step 2. If you wish to delete other time settings, repeat 2 to 4.



- 6 When you have finished setting, hold down the  for 2 seconds.

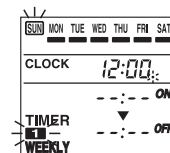


- 7 It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.


6-4-4. Modifying the selected time setting

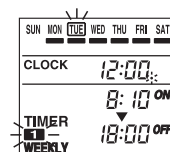
1

Carry out steps 1 to 3 of the “Setting up the weekly timer operation” procedure.




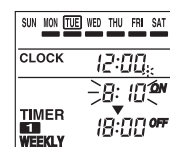
2

Press  to select the day that you want to change the timer setting.




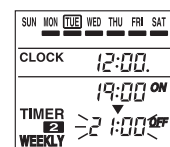
3

Press  to enter the setting mode. The “WEEKLY1” ON time starts flashing.



4

Press  several times to select the time you want to change. The selected setting flashing on the display. Each press moves you to the next setting for the selected day, as follows.

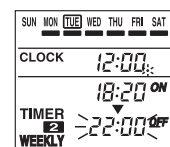


► WEEKLY1 → WEEKLY1 → WEEKLY2 → WEEKLY2 → Step 2
ON OFF ON OFF


5

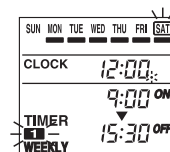
Press  to change time setting.

Press  to confirm the setting.



6

Press . To return to step 2. If you wish to change other time settings, repeat 2 to 4.



7

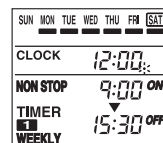
It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

8

When you have finished setting , hold down the



for 2 seconds.

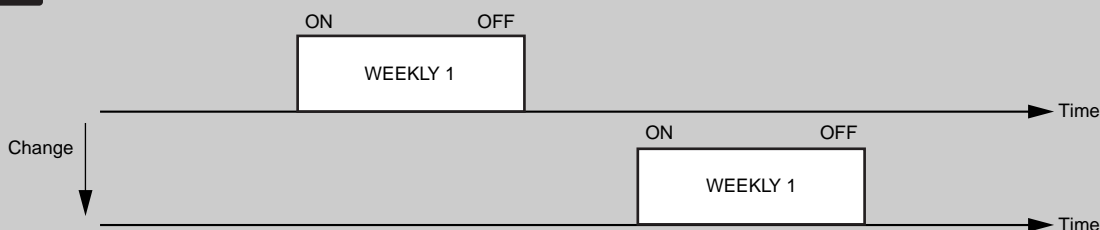


Notes

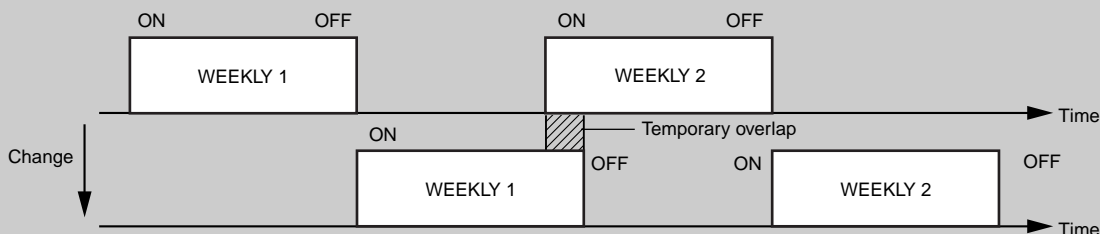


In the following cases, cancel the set time prior to making the required amendments.

- If you want to change the ON time to a time that is later than the currently set OFF time.



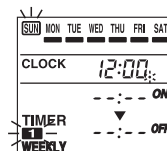
- If the change would cause a temporary overlap between the first and second ON / OFF time.



6-4-5. Copying the selected time setting

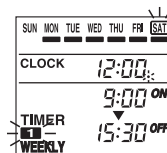
1

Carry out steps 1 to 3 of the "Setting up the weekly timer operation" procedure.



2

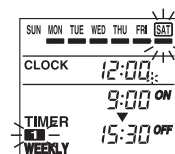
Press to select the day that you want to copy the timer setting.



3

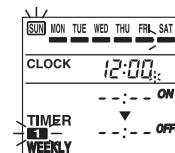
Press **TIMER COPY**.

The time setting of the selected day is copied, and **■** starts flashing. (The copied time settings are saved to the memory.)



4

Press **DAY** to select the day that you want to paste the copied time settings.

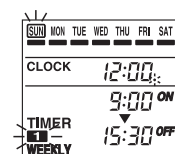


5

Press **TIMER COPY** again.

The copied time settings are pasted down and the **■** comes on in the day selected in 4. If you want to copy the settings current, repeat the operations shown in 4 and 5.

Repeating the operations shown in steps 3 to 5, you can copy the time setting you want and paste it to the day you want to set.



Notes



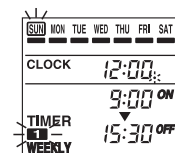
- The WEEKLY1, WEEKLY2 timer settings that have been set for other days can be pasted to another day by using the copy / paste function.
- In the one week setting for the weekly timer, if even a single day setting overlaps into the next day, this function cannot be used.

6-4-6. Using the day OFF setting


- Use the DAY OFF setting to switch off timed operation for a selected day in the coming week.
- This is a temporary, one time setting. The DAY OFF setting is automatically cleared as soon as the specified day passes.

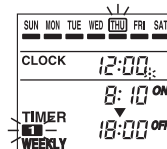
1

Carry out steps 1 to 3 of the “Setting up the weekly timer operation” procedure.



2

Press  to select the day that you want to set as the DAY OFF.

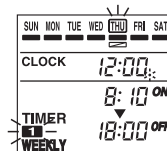


3

Press .

The DAY OFF setting is registered, and  appears on the display.

- To cancel the DAY OFF setting: You can cancel the setting by pressing  again.



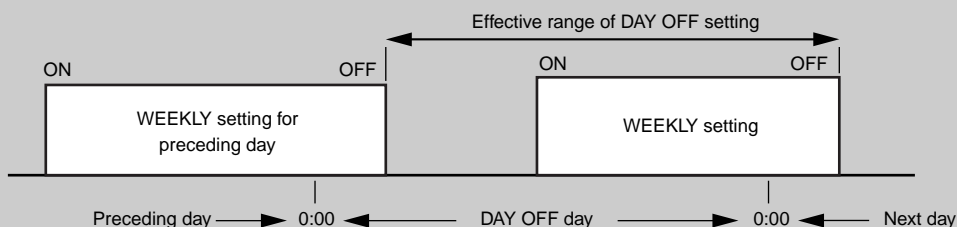
4

It is necessary to transmit the newly set information to the relevant indoor units. Refer to steps 4, 5 and notes of “3-3. CONTROL MODE” for details.

Notes



- The DAY OFF setting is only available for days for which weekly time settings already exist.
- You can make this setting for any of the next seven days (counting from current day).
- The DAY OFF setting is effective over the range illustrated below. The weekly setting for which an ON time has been set is eligible for the day in which the DAY OFF has been set.



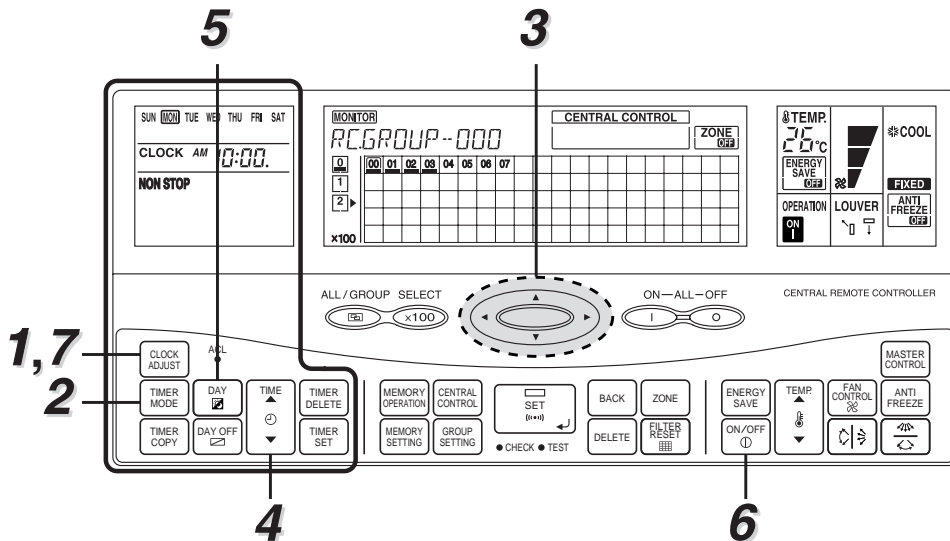
6-4-7. Precautions during setting

Setting is not possible in the following cases, so amend the time.

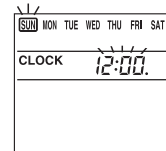
- The OFF times cannot be set earlier than the ON time.
- The WEEKLY2 setting cannot be set earlier than the WEEKLY1 settings.
- The WEEKLY1 and WEEKLY2 time spans cannot overlap.

6-5. CLOCK SETTING

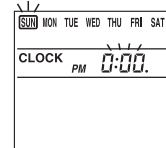
The clock setting can be used to set the current time or set various operations of the central remote controller.



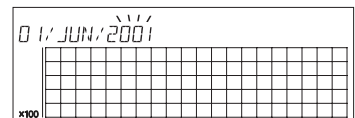
1 Press **CLOCK ADJUST** to start the clock setting.



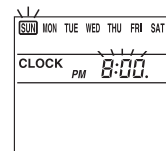
2 Press **TIMER MODE** to select 24-hour or 12-hour display.



3 Year / Month / Day setting is performed. Use to select the items to be changed and perform the setting with .

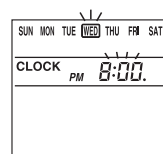


4 Press and set the current time.




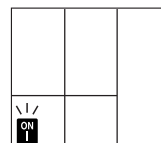
5

Press  and set the current day.



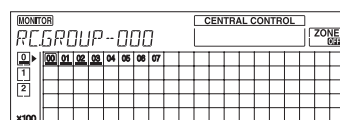
6

Press  and set the beep enable / disable setting.



7

Finally, press  to end the clock setting.



Note



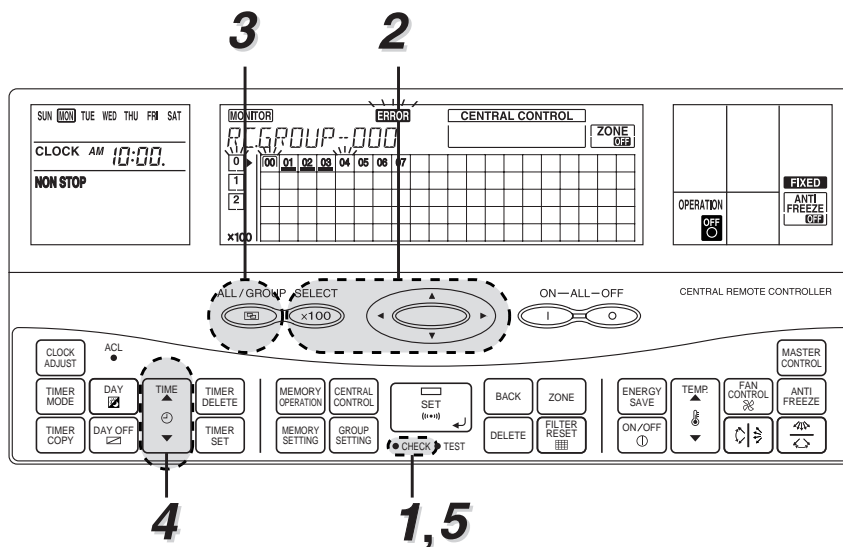
If there is an indoor unit that is operating based on the timer of the central remote controller. The operations of the time setting mention above will be limited to steps 2 and 6.

7. ERROR DISPLAY

This section explains Error display of the central remote controller.

7-1. ERROR MONITOR.....	76
7-2. ERROR CODES.....	78
7-3. ALL CLEAR SWITCH.....	79

If the **ERROR** and the number for the central control number **00** flash during operation, there is an error at the relevant remote control group. Start the error monitor, identify the error and remove the cause.



7-1. ERROR MONITOR

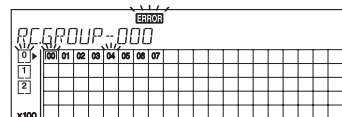
When the error monitor is started, the following can be performed.

- The error code for each remote control group (indoor units) is displayed.
- Up to two of the past error codes are displayed for each of the indoor units, the outdoor units and the central remote controller group.

1

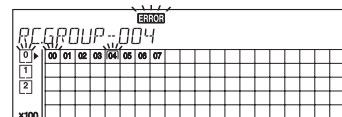
Press **● CHECK** to start the error monitor.

The LCD changes to the error monitor screen.



2

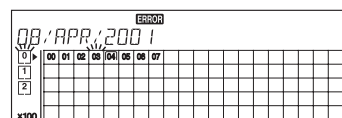
Press **SELECT** to select the central control number for which its details of the error contents are to be confirmed. (The number of the **00** causing the error is flashing.)



3

Press **ALL/GROUP** to select the display mode for the error code.


Each press of **ALL/GROUP** will switch the display as shown below.

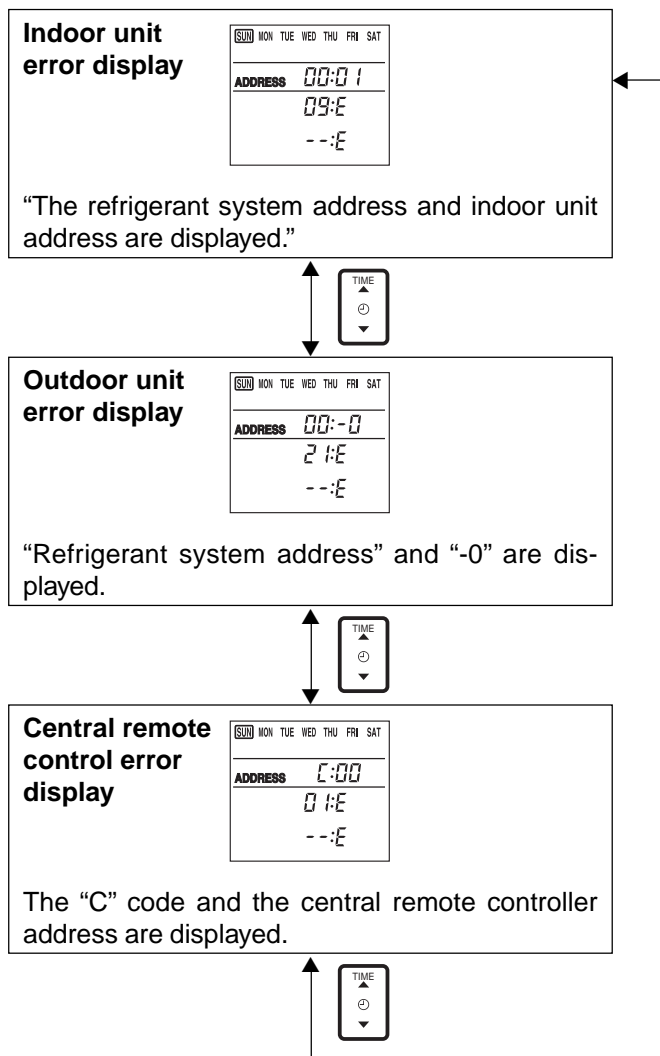




► Current error code → First previous error code → Second previous error code

4

Press  to select the indoor units in the remote control group selected in 2.

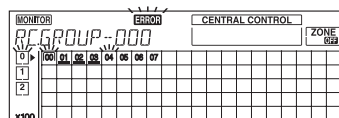
Continue pressing , the error codes for the outdoor unit and the central remote controller are displayed. Each of the displays is shown below.



- If there have been multiple errors for one unit, continually pressing  will display the error codes in sequence. When all the error codes have been displayed, the display will switch to the next unit.
- If there is no error in the central control number selected in 3, the display will not change when  is pressed. "00" displayed means "no errors".

5

Press ● CHECK again to end the error monitor.



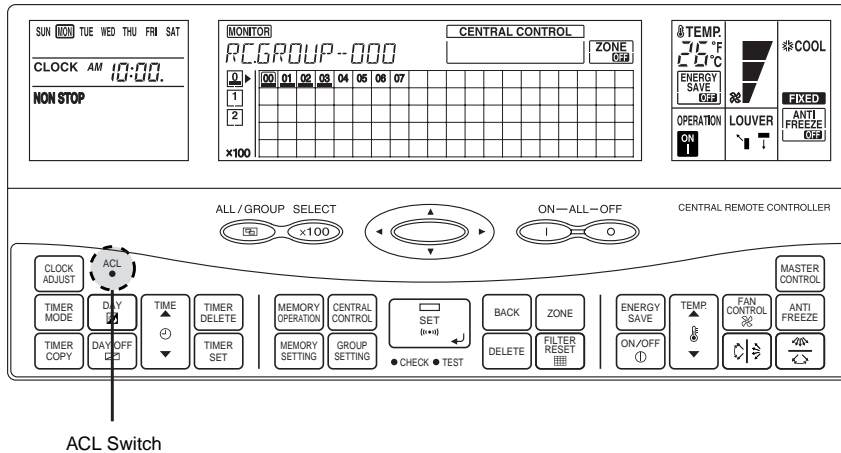
7-2. ERROR CODES

The following explains the meaning of each of the error codes.

Error Code	If indoor unit error	If outdoor unit error	If central remote controller error
00	No error	No error	No error
01	—	—	—
02	Model information abnormal	Model information abnormal	Circuit board error (Control panel)
03	Microcomputer error	Circuit board error 1	Circuit board error (Transmission adaptor)
04	Power supply frequency abnormal	Power supply frequency error	Memory error
05	—	—	Node setting error
06	EEPROM access error	EEPROM access error	Parallel communication error
07	EEPROM deletion error	EEPROM deletion error	—
08	—	—	—
09	Room temperature thermistor error	Compressor 1 error	—
0A	Heat exchanger thermistor (middle) error	Compressor 2 error	—
0B	Heat exchanger thermistor (inlet) error	Compressor 3 error	—
0C	Heat exchanger thermistor (outlet) error	—	—
0D	Blower temperature thermistor error	Discharge temperature thermistor 1 error	—
0E	—	Discharge temperature thermistor 2 error	—
0F	—	Discharge temperature thermistor 3 error	—
10	—	Outdoor temperature thermistor error	—
11	Drain abnormal	Heat exchanger inlet thermistor 1 error	—
12	Room temperature abnormal	Heat exchanger inlet thermistor 2 error	—
13	Fan error	Heat exchanger inlet thermistor 3 error	—
14	—	Heat exchanger outlet thermistor 1 error	—
15	—	Heat exchanger outlet thermistor 2 error	—
16	—	Heat exchanger outlet thermistor 3 error	—
17	—	Suction temperature thermistor error	—
18	Standard wired remote control communication error	—	—
19	—	Discharge pressure sensor error	—
1A	—	Liquid pressure sensor error	—
1B	—	Suction pressure sensor error	—
1C	—	Oil sensor error	Connection error
1D	—	—	Initial setting error
1E	—	—	Manual store 2 error
1F	Transmission error	Transmission error	Transmission error
20	—	—	—
21	—	Discharge temperature 1 error	Software error (Output)
22	—	Discharge temperature 2 error	Software error (Input)
23	—	Discharge temperature 3 error	—
24	—	High-pressure error	—
25	—	Low-pressure error	—
26	—	—	—
27	—	Oil recovery error	—
28	—	Pump down error	—

7-3. ALL CLEAR SWITCH

Press **ACL** to restart the central remote controller.



8. SPECIFICATIONS

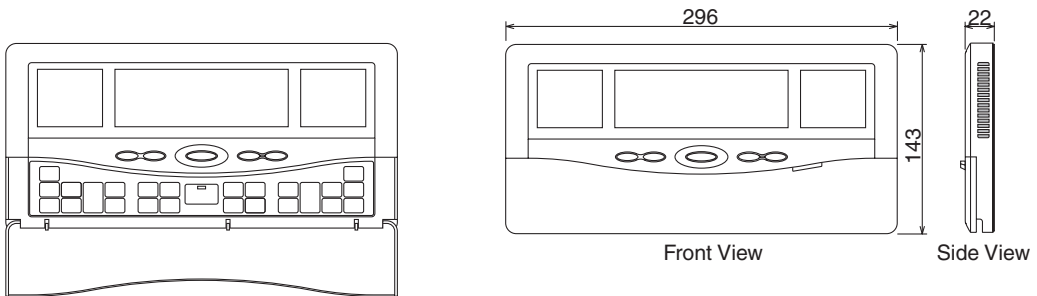
This section explains the specifications and dimensions of the central remote controller.

8-1. SPECIFICATIONS	82
8-2. DIMENSIONS	82

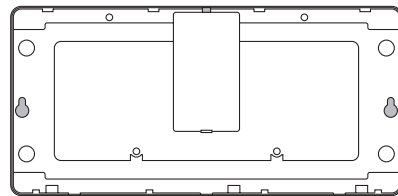
8-1. SPECIFICATIONS

	Operation panel	Communication adapter
Supply power	50 — 60 Hz 220 — 240 V	
Power consumption (W)	4.8 W	
Size (H × W × D mm)	143 × 296 × 22	(107) × 288 × 100
Weight (g)	550	1300

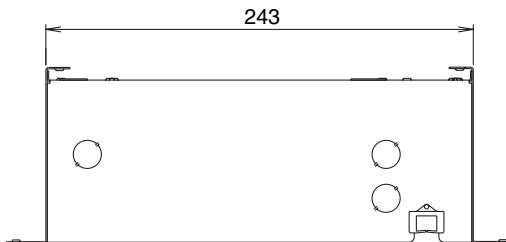
8-2. DIMENSIONS



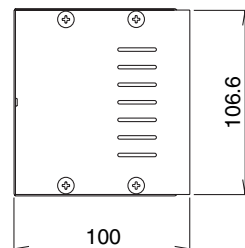
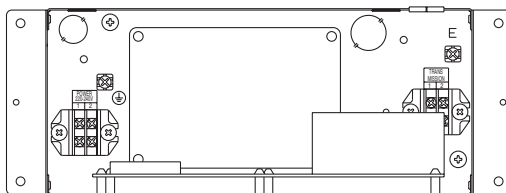
OPERATION PANEL



Rear View



TRANSMISSION ADAPTOR



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