OPERATING MANUAL

PART NO. 9380859031 WIRED REMOTE CONTROLLER

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INTRODUCTION

SAFETY PRECAUTIONS

- The "SAFETY PRECAUTIONS" indicated in the manual contain important information pertaining to your safety. Be sure to observe them.
- Request the user to keep the manual on hand for future use, such as for relocating or repairing the unit.



play with the appliance.

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SYSTEM OUTLINE

Terminology

System related terms

- (a) Heat recovery system:
 - The indoor unit connects to the outdoor unit via an RB unit (Refrigerant Branch unit) in this system. RB units of single type and 4-system multi type are available. Indoor units connected to RB units of a different system perform cooling operation and heating operation simultaneously. An indoor unit connected to an outdoor unit without going through an RB unit are for cooling only.
- (b) Heat pump system: This is standard system. Indoor units connected to the same outdoor unit do not perform cooling operation and heating operation simultaneously.
- (c) RB Group [For Heat Recovery System only]: A group of indoor units connected to a single type RB unit or each system of a multi type RB unit. Cooling operation and heating operation are not performed simultaneously in an RB Group.
- (d) R.C. Group (Remote Controller Group): This forms a group by connecting indoor units by remote controller cable. Each 1 unit of ungrouped indoor unit makes up an R.C. Group. It is the minimum unit of operation.
- (e) Refrigeration system: This is a system composed of indoor units and outdoor units connected by the same refrigerant piping.
- (f) System: This is 1, 2 or more Refrigerant Systems connected by the same transmission cable.
- (g) Central controller: A central remote controller can control the multiple R.C. Groups. There is a System Controller, Touch Panel Controller, and a Central Remote Controller.
- (h) Standard remote controller: A standard remote controller is a remote controller which controls 1 R.C. group. This unit corresponds to this. This unit cannot be used together with a 3-wire type Wired Remote Controller. A Wireless Remote Controller can be used together with this unit.

Address related terms

- Refrigerant circuit address: This is the ID individually assigned to each refrigerant system and is used for control.
- (j) Indoor unit address: This is an ID individually assigned to each indoor unit.
- (k) Remote controller address: This is an ID individually assigned separately from the indoor unit address to indoor units which form an R.C. Group.

- 2-wire remote controller address: This ID is used for control and is allotted to remote controllers in R.C. Group formed by 2-wire type remote controllers and indoor units. The ID consists of 3-digit "System number" and 2-digit "Unit number". IDs are automatically assigned if the remote controller address of all indoor units in the R.C. Group are set to "0".
- (m) System number: Indicates types of unit in R.C. Group formed by 2-wire type remote controllers.
 001: Remote controller, 002: Indoor unit
- (n) Unit number:

This number allotted to individual units in R.C. Group formed by 2-wire type remote controllers. If 2-wire remote controller address is set manually, numbers that duplicate remote controller addresses in R.C. Group cannot be used.

1. OVERVIEW AND BASIC OPERATIONS



1-1. Display Panel

The following 2 types of screens are displayed.





Setting Screen

"Monitor Mode Screen" is home screen of this unit. Basic operation is performed in the screen display. See individual settings for Setting Screen.

1-2. On/Off Button

Starts or stops the operation.

Note

The On/Off button cannot be operated at screens other than the "Monitor Mode Screen".

1-3. LED Lamp (Operation indicator)

Lights while the indoor unit is operating. Blinks when an error is occurred.

1-4. MODE Button



Note

Available modes differ according to system configuration and type / operating conditions of indoor unit. Unavailable modes are not displayed and are skipped.

1-5. FAN Button



Note

If Dry is selected, the fan speed can be set to Auto only.

1-6. +, — Buttons (Set temperature buttons)

Temperature is set while the "Monitor Mode Screen" is displayed.

+ button: Raise — button: Lower	
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Used to select setting items during Setting Screen display.

Note

When operation mode is set to "FAN", the temperature cannot be adjusted.

1-7. <, > Buttons

Used to select setting items during the setting item selection screen is displayed.

1-8. MENU Button

Press the [MENU] button to display the setting item selection screen. Refer to 2. Menu settings.

1-9. ENTER Button

Used to enter setting items and settings.

1-10. Room Temperature Sensor (inside)

Senses ambient temperature of unit.

2. MENU SETTINGS

- (1) Press the [MENU] button. Setting item selection screen is displayed.
- Select the icon of the item to be set with the $[\langle] or [\rangle]$ (2) button; press the [LENTER] button to switch to the Setting Screen. For details concerning settings, see the description of the setting concerned.

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2-2. On timer setting (-)) €

2-1. Airflow direction setting (🔊

2-4. Current time setting (1)

2-5. Filter sign reset (IIII) Λ

2-6. Economy setting (
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Note

Do not proceed to the Setting Screen for items without function that applies to indoor unit or items with restricted use

2-1. Airflow Direction Setting

(1) Select the icon of the airflow direction setting in Menu Settings. Then Press the [LENTER] button.



(2) Set the airflow directions.

Vertical airflow direction adjustment

Set the vertical airflow direction or swing with the [+] or [-] buttons.



Horizontal airflow direction adjustment

Set the horizontal airflow direction or swing with the $[\langle] \text{ or } [\rangle]$ buttons.



(3) When the [LENTER] button is pressed, the display returns to the "Monitor Mode Screen".

Notes

- · Set airflow direction with the remote controller. Attempting to move the airflow direction louvre manually could result in improper operation; in this case, stop operation and restart. The louvre should begin to operate properly again.
- · During cooling and dry operation, do not set the vertical airflow direction louvre in the downward position for an extended period. Water vapor may condense near the outlet port and drops of water may drip from the air conditioner.
- The swing operation may stop temporarily when the air conditioner's fan is not operating, or when operating at very low speeds.
- · The swing operation is not available depending on the model. Please refer to the operating manual for the indoor unit.

2-2. On Timer Setting

- (1) Select the icon of the On timer setting in Menu Settings. Then press the [↓ ENTER] button.
- (2) Set enabled with the [+] or [-] buttons. Then press the [LENTER] button. If set to "Enable", proceed to (3). If set to "Disable". return to "Monitor Mode Screen".
- (3) Adjust the time with the [+]or [-] buttons.

. A ŝ : Disable C: Enable 1.0H ┌> 0.5X <> 1.0X <> 1.5X 3.0X24.0X <

Note

Time can be set in 0.5 H units from 0.5 H to 3.0 H, after 3.0 H which can be set up to 24.0 H in 1.0 H unit.

When the [LENTER] button is pressed, the display (4) returns to the "Monitor Mode Screen".

2-3. Off Timer Setting

- (1) Select the icon of the Off timer setting in Menu Settings. Then press the [↓ ENTER] button.
- (2) Set enabled with the [+] or [-] buttons. Then press the [LENTER] button. If set to "Enable", proceed to (3). If set to "Disable", return to "Monitor Mode Screen".



(3) Adjust the time with the [+] or [-] buttons.

→ 0.5X ↔ 1.0X ↔ 1.5X … 3.0X …24.0X ←

Note

Time can be set in 0.5 H units from 0.5 H to 3.0 H, after 3.0 H which can be set up to 24.0 H in 1.0 H unit.

(4) When the [↓ENTER] button is pressed, the display returns to the "Monitor Mode Screen".

2-4. Current Time Setting

Note

- This function cannot be used if *"The Setting of Using the Current Time"* is set to "Not used". To change to "Used", consult an authorized service personnel.
- Select the icon of the current time setting in Menu Settings. Then Press the [↓ ENTER] button.



(2) Select the time format with the [+] or [-] buttons.



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- (3) Press the [JENTER] button.
- (4) Adjust the current day of the week with the [<] or [>] buttons. A " □" appears around the selected day.

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SU: SundayMO: MondayTU: TuesdaWE: WednesdayTH: ThursdayFR: FridaySA: SaturdayFR: Saturday

- (5) Press the [JENTER] button.
- (6) Select the hour or min. with the [<] or [>] buttons, and set the value with the [+] or [-] buttons.

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(7) When the [JENTER] button is pressed, the display returns to the "Monitor Mode Screen".

2-5. Filter Sign Reset

 Select the icon of the filter sign reset in Menu Settings. Then Press the [↓ ENTER] button.



(2) When the [JENTER] button is pressed, the display returns to the "Monitor Mode Screen". Filter sign will disappear.

2-6. Economy Setting

 Select the icon of the economy setting in Menu Settings. Then press the [↓ ENTER] button.



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(2) Set enabled with the [+] or[-] buttons.

□: Disable ☑: Enable

(3) When the [↓ENTER] button is pressed, the display returns to the "Monitor Mode Screen".

About ECONOMY Operation

Economy operation can be set by this unit. The temperature setting is offset automatically over a certain period of time. Based on temperature set in remote controller, temperature of indoor unit varies little by little. However in this

case, temperature indication of remote controller does not vary as it continues to indicate the temperature when ECONOMY Operation was set.

Cooling set temperature

Save temperature



3. MENU 1 SETTINGS (for Administrator)

(1) With "Monitor Mode Screen" displayed, press and hold the [MENU] button and [<] button simultaneously for at least 2 seconds. Setting item selection screen is displaved.



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(2) Select the icon of the item to be set with the $\lceil \langle \rceil \rangle$ button: press the [L ENTER] button to switch to the Setting Screen. For details concerning settings, see the description of the setting concerned.

3-1. Auto off timer setting (在)) 3-2. Weekly timer setting (\bigcirc 7) 3-3. Set temp. range setting (🦨) 3-4. Set temp. auto return setting (P)

Returns to this screen after setting. Return to "Monitor (3) Mode Screen" if the [
MENU] button and [
] button pressed and held simultaneously for at least 2 seconds.

Note

Available setting items differ according to settings when equipment is set up. Operation does not proceed to items that cannot be set.

3-1. Auto off timer setting

(1) Select the icon of the Auto Off Timer setting in Menu 1 Settings. Then press the [↓ ENTER] button.

(2) Set enabled with the [+] or

the [JENTER] button.

[-] buttons. Then Press

If set to "Enable", proceed to (3). If set to "Disable",

return to "Menu 1 Settings"

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(3) Adjust the time with the [+]or [-] buttons.



A 0.SH → 0.5X ↔ 1.0X ↔ 1.5X … 4.0X <¬

C: Enable

Note

screen

Time can be set in 0.5 H units from 0.5 H to 4.0 H.

(4) Press the [LENTER] button to return to the Menu 1 item selection screen.

3-2. Weekly Timer Setting

Note

• This function cannot be used if "The Setting of Using the Current Time" is set to "Not used". To change to "Used", consult an authorized service personnel.

Can be turned ON/OFF twice a day. OFF can be set the following day.

< Example of schedules >



(1) Select the icon of the Weekly Timer setting in Menu 1 Settings. Then press the [LENTER] button.

(4)7

Set to enable or disable

(2) Set enabled with the [+] or [-] buttons. Then press the [] ENTER] button. If set to "Enable", proceed to (3). If set to "Disable", return to Menu 1 items setting screen.



Flow of schedule settings



*1: If the OFF time of Timer 1 is set on the next day. *2: If you do not set the ON time of Timer 2.

· Select a day of the week (or all days)

- (3) Select a day of the week a with the $[\langle \rangle]$ or $[\rangle]$ buttons. A "
 "
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 appears 6 9 12 15 18 21 around the selected day. V ف7 \Rightarrow SU \leftrightarrow MO \leftrightarrow TU \leftrightarrow WE \leftrightarrow TH \leftrightarrow FR \leftrightarrow SA (Sun.) (Mon.) (Tue.) (Wed.) (Thu.) (Fri.) (Sat.) → SUIMOITUIWEITHIFRISA < All davs
- (4) Press the [JENTER] button.

Make a schedule of Timer 1

(5)Set the ON time of Timer 1 with the [+] or [-] buttons. Then press the [LENTER] button



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⊕1 AM 7:00

3 6 9 12 15 18 21

(6) Select the operation mode. "Hold" is set be default. With this setting, icons of all modes are displayed at the same time.

If you select the "Hold", to continue the mode of the previous operation.

To specify a certain mode, select with the [+] or [-]buttons. To return to "Hold" after specifying mode, press the [<] button.

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- Press the [J ENTER] button. If set to "Fan", proceed to (7) (10).
- Adjust the temperature. (8) "Hold" is set be default. With this setting. "--" is displayed.



If you set the "Hold", to continue the temperature of the previous operation.

To specify a certain temperature, adjust with the [+] or [-] buttons. To return to "Hold" after specifying temperature, press the [<] button.



- (9) Press the [J ENTER] button.
- (10) Set the OFF time of Timer 1 with the [+] or [-] buttons. Then press the [↓ ENTER] button.
- (11) Press the [JENTER] button



(12) Press the [LENTER] button.



Notes

- If Timer 1 OFF is the following day, Timer 2 cannot be set. Return to day of the week selection screen of (3).
- You can set mode and temperature if operating manually when timer operation has expired. Set by (11) and (12) if necessary.

Make a schedule of Timer 2

(13) Set the ON time of Timer 2 with the [+] or [-] buttons. If not setting Timer 2, do not alter " - - : - - ".



- (14) Press the [J ENTER] button. If not setting Timer 2, return to day of the week selection screen of (3).
- (15) Set schedule of Timer 2 by performing (5) to (12) just like for Timer 1.
- (16) Press the [LENTER] button.
- (17) Return to day of the week selection screen of (3). "is attached to day of the week for which schedule was created, and the contents of schedule are displayed in sequence.



- (18) To set other day of the week, repeat operations (3) to (17).
- (19) Press the [MENU] button to return to the Menu 1 item selection screen.

How to delete the schedule of the day

Select day of the week for which schedule is to be deleted on the day of the week selection screen of (3) and press the [+] button.

"m" of the selected day of the week flashes. The schedule is deleted when [J ENTER] button is pressed and display returns to day of the week selection screen of (3).



· Day off setting

Select day of the week for which schedule is to be disabled on the day of the week selection screen of (3) and press the [-] button.

"
"
is attached below the day of the week set and schedule is disabled.

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Press the [MENU] button to return to the Menu 1 item selection screen.

Notes

- The schedule of the selected day of the week is disabled for a period of 1 week from the set day. When the selected day is passed, the schedule for that day of the week is once again enabled.

3-3. Set Temp. Range Setting

- Select the icon of the Set Temp. Range setting in Menu 1 Settings. Then press the [↓ ENTER] button.
- (2) Set enabled with the [+] or
 [-] buttons. Then press the [↓ ENTER] button.
 If set to "Enable", proceed to (3). If set to "Disable", return to Menu 1 items setting screen.
- (3) Select the operation mode with the [+] or [-] buttons. Alternately displays the upper/lower limit values of the currently selected mode.



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- (4) Press the [J ENTER] button.
- (5) Adjust the upper limit temperature with the [+] or [--] buttons. Then press the [↓ ENTER] button.



- (6) Adjust the lower limit temperature with the [+] or [-] buttons.
- (7) Press the [LENTER] button to return to the Menu 1 item selection screen.

3-4. Set Temp. Auto Return Setting

 Select the icon of the Set Temp. Auto Return setting in Menu 1 Settings. Then press the [↓JENTER] button.



 (2) Set enabled with the [+] or
 [-] buttons. Then press the [↓ ENTER] button.
 If set to "Enable", proceed to (3). If set to "Disable", return to Menu 1 items setting screen.

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: Disable

C: Enable

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(3) Select the operation mode with the [+] or [-] buttons.



- (4) Press the [J ENTER] button.
- (5) Adjust the temperature with the [+] or [-] buttons. Then press the [J ENTER] button.
- (6) Adjust the time with the [+] or [-] buttons.

Note

Time can be set in 0.5 H units from 0.5 H to 4.0 H.

→ 0,5X ↔ 1,0X ↔ 1,5X ···· 4,0X

(7) Press the [JENTER] button to return to the Menu 1 item selection screen.

4. KEY LOCKS

Notes

- The child lock and part lock can be unlocked only when the "Monitor Mode Screen" is displayed.
- Only the following operations can be performed during part lock: Operation On/Off, mode setting, temperature setting, fan setting, airflow direction setting, part lock unlock.
- If the child lock and part lock are enabled simultaneously, the child lock is given priority.

4-1. Child Lock



4-2. Part Lock

 With "Monitor Mode Screen" displayed, press and hold the [■ MENU] button and [>] button simultaneously for at least 2 seconds, and the part lock is applied.



(2) To unlock, press and hold the [
MENU] button and [>] button simultaneously for at least 2 seconds.

5. OPERATING TIPS

5-1. About the Status Icons

The contents of the status icon displayed on the "Monitor Mode Screen" are as follows.

Error
Emergency stop
Forced Stop
Under maintenance
Mode mismatch
Filter sign
Defrost operation
Oil recovery operation
Central controlled
Operation prohibited
Child locked
Part locked
Conducting electricity
Anti freeze operation
Test run
Economy Setting is enabled
Set Temp. Range Setting is enabled
Auto Off Timer is enabled
On Timer Setting is enabled
Off Timer Setting is enabled
Weekly Timer Setting is enabled
Set Temp. Auto Return Setting is enabled
Master remote controller
Operation controlled
Remote controller sensor is enabled

5-2. Selectable Modes

There are restrictions on the selectable modes depending on the system configuration and operation status.

Heat recovery system

- (a) When single indoor unit connected to an RB unit, all the modes can be selected.
- (b) When a master indoor unit is set in an RB group, only the mode selected at the master indoor unit (*1) can be used. (*1: "Fan" cannot be selected at the indoor unit including the master indoor unit .)
- (c) When a master indoor unit is not set in the RB Group, refer to the following table.

Status	Selectable	Not selectable
Other indoor unit is in cooling operation.	Cool, Dry	Auto, Heat, Fan
Other indoor unit is in dry opera- tion.	Cool, Dry	Auto, Heat, Fan
Other indoor unit is in heating operation.	Heat	Auto, Cool, Dry, Fan
Other indoor unit is in anti freeze operation.	Heat	Auto, Cool, Dry, Fan

When indoor units is connected for cooling only in heat recovery system

(a) Refer to the following table:

Status	Selectable	Not selectable
At any time	Auto, Cool, Dry, Fan	Heat

RB priority connection in heat recovery system

(a) For indoor units or RB groups by RB priority connection, refer to the following table:

Status	Selectable	Not selectable
Cooling priority is set by external input.	Cool, Dry	Auto, Heat, Fan
Heating priority is set by external input.	Heat	Auto, Cool, Dry, Fan

Heat pump system

- (a) When a master indoor unit is set in a refrigerant system, only the mode selected at the master indoor unit (*2) can be used. (*2: "Fan" cannot be selected at the indoor unit including the master indoor unit .)
- (b) When a master indoor unit is not set in a refrigerant system, refer to the following table.

Status	Selectable	Not selectable
Other indoor unit is in cooling op- eration or cooling away operation.	Cool, Dry	Auto, Heat, Fan
Other indoor unit is in dry opera- tion.	Cool, Dry	Auto, Heat, Fan
Other indoor unit is in heating op- eration or heating away operation.	Heat	Auto, Cool, Dry, Fan
Other indoor unit is in anti freeze operation.	Heat	Auto, Cool, Dry, Fan

Outdoor unit priority connection in heat pump system

(a) Refer to the following table:

Status	Selectable	Not selectable
Cooling priority is set by external input.	Cool, Dry	Auto, Heat, Fan
Heating priority is set by external input.	Heat	Auto, Cool, Dry, Fan

5-3. Settable Temperature Range

The settable temperature range by operation mode and indoor unit setting is shown in the table below.

Cool/Dry	18 to 30 °C (64 to 88 °F)
Heat	10 to 30 °C (48 to 88 °F)
Auto	18 to 30 °C (64 to 88 °F)

6. OTHERS

6-1. Outline Dimensions



6-2. Specifications

Model Name	UTY-RLRY/UTY-RLRG
Input voltage	DC 12 V
Power consumption	Max. 0.2 W
Display	Monochrome segment LCD
Usage temperature range	0 to 46 °C (32 to 114 °F)
Usage humidity range	0 to 90 % (no condensation)
Storage temperature range	-20 to 70 °C (-4 to 158 °F)
Storage humidity range	0 to 90 % (no condensation)
Dimensions [H × W × D mm (in.)]	120 × 120 × 17 (4-3/4 × 4-3/4 × 11/16)
Weight [g (oz.)]	170 (6)

6-3. Error Codes

This appears automatically on the display if an error occurs.

- If an error occurs, the following display will be shown. ("**A**" will appear in the "Monitor Mode Screen")
- If "A" is displayed, immediately stop air conditioner operation and consult authorized service personnel.



Error code

2-wire remote controller address