



# **OPERATING MANUAL**

TOUCH PANEL CONTROLLER Keep this manual for future reference.

# UTY-DTGY UTY-DTGG

FUJITSU GENERAL LIMITED

# INTRODUCTION

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\*Always initialize before using.

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# Chapter 6 OTHERS

# INTRODUCTION

# SAFETY PRECAUTIONS

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



This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.

- In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker, and consult authorized service personnel.
- Do not repair or modify any damaged cable by yourself. Let the authorized service personnel to do it.
   Improper work will cause a electric shock or a fire.
- This unit contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- When moving, consult authorized service personnel for disconnection and installation of this unit.
- Do not touch with wet hands. It may cause an electric shock.
- If children may approach the unit, take preventive measures so that they cannot reach the unit.
- Do not repair or modify by yourself. It may cause a fault or accident.
- Do not use flammable gases near the unit. It may cause a fire from leaking gas.



This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user or damage to property.

- Do not set vessels containing a liquid on this unit. Doing so will cause heating, fire or electric shock.
- Do not expose this unit directly to water. Doing so will cause trouble, electric shock or heating.
- Dispose of the packing materials safely. Tear and dispose of the plastic packing bags so that children cannot play with them. There is the danger of suffocation if children play with the original plastic bags.
- Do not place electrical devices within 1 meter of this unit. It may cause malfunction or failure.
- Do not use fire near this unit or place a heating apparatus nearby. It may cause malfunction.
- Do not touch the switches with sharp objects. Doing so will cause injury, trouble, or electric shock.
- Do not insert articles into the slit parts of this unit. Doing so will cause trouble, heating, or electric shock.
- Do not operate the surface of the touch panel with other than the accessory touch pen or your finger. It will scratch the surface and cause trouble.

# SYSTEM OUTLINE

# 1 Composition of basic screens

The screens of touch panel controller consist of 3 functions; monitoring, control, and setting.

MONITOR	(Chapter 1)	
(Monito	r mode)	
lcon	Open for all of the former       Open former       Open former       Open former       Open former <th< th=""><th></th></th<>	



	Setting	
	(Operation Setting)	
SETTING (Chapter 3)	PREFERENCE SETTING (Chapter 4)	HISTORY (Chapter 5)
SETTING	PREFERENCE SETTING         Image: Control of the set	HISTORY
* 3-1 Language setting	4-1 Preference Setting	5-1 History Display
* 3-2 Date Setting		
3-3 Group Setting		
3-4 Schedule Setting		
3-5 Password Setting		1 I 1 I
* 3-6 Installer Setting		
*: Includes initialization.		



## TOUCH PANEL CONTROLLER (UTY-DTG\*)

# Note

\*1

Touch panel screen operation precaution: Operate the touch panel screen so that it is touched and released perpendicularly with the accessory touch pen (or your finger). If it is released obliquely, it may not work properly.

# \*2 Notes

- Some USB memories may not be recognized by the touch panel controller. When not recognized, press the reset button after disconnecting the USB memory from the touch panel controller.
- Use a USB memory without "Write prohibited switch".
- · Use FAT16 or FAT32 as the USB memory format.

# 3 Terminology

## Controller related terms





## R.C. Group:

This is the group of indoor units that have been connected with remote controller cable, or single indoor unit.



## Group:

Aggregate for collectively controlling 1 or multiple R.C Groups.

## 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.



## System:

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

Touch panel controller:

The touch panel controller is a remote controller that allows centralized control of multiple indoor units. A touch panel controller can control the operation of the indoor units and timers in 3 units: All, Group and Individual. Moreover, 1 touch panel controller can control up to 400 indoor units and 64 groups.

# Standar

Standard remote controller:

The standard remote controller is a remote controller that controls indoor units that have been formed into R.C. Groups. There are 4 kinds of standard remote controllers: wired remote controller, wireless remote controller, simple remote controller and external switch controller.

## Address related terms

F



# G

Remote controller address (0-15): This is the ID individually assigned to the indoor units forming each R.C. Group and is used for control.

# Η

Indoor unit address (00 - 63): This is the ID individually assigned to each indoor unit and is used for control.

# 1

Refrigerant system address (0 - 99): This is the ID individually assigned to each refrigerant system and is used for control.

## Remote controller group address:

The Remote controller group address (R.C. Group Address) is made up of remote controller address "0", refrigerant system address, and indoor unit address.

# 4 Control unit

The units which can be controlled by touch panel controller have the composition shown in the figure below.



## 5 Password configuration

The kinds and relationship of passwords which can be set at this controller are as follows:



The configurations that can be managed by touch panel controller are as follows:

The group units which can be controlled by touch panel controller is up to 3 hierarchies of R.C. group and group as shown below.





# INITIALIZATION

# Initialization procedure

After touch panel controller installation work is complete, perform initialization using the following procedures before starting to use the system.



Operation start preparations complete

# Chapter 1 MONITOR

# **1-1 Monitor**

# 1-1-1 Main screens of Monitor Mode

## Monitor Mode (Icon)



## Notes

"Status" status	s display list
-----------------	----------------

Status On	Indoor units in the system operate.
Status Off	All indoor units in the system are stopped.
Status Error	An error occurred at 1 or more indoor units in the system.
Emergency Stop	1 or more indoor units in the system are emergency-stopped.

## Monitor Mode (List)

Large Group			Тор	Up	Down	Icon
me Expand	Status	s	Mode	Set Temp.	Fan	R/C Prohibit
Office A	On		Heat	21.5°C	High	<b>A</b> D
Office B	Mixed	d 🔍	Mixed	Mixed	Mixed	Mixed
Room	On	Ø	Auto	24.0°C	Low	
om 101	Off I	10				<b>3</b> 788
strant	On	ø	Cool	26.0°C	Auto	
trance	Off I	10				-
Meeting 1	Off		1			
om 101 strant trance Meeting 1 Nup @schedule or Schedule @Op. commole	Off On Off Off RC Pro		Cool	26.0°C	Auto	

# 1-1-2 Switching "Monitor Mode" screen display format



8 21.5°C

Notes

## "Icon" Display List

Icon	Name	Content
Ð	Group	Group
	Error	Error
	Cool/Dry (Light blue)	Cooling or Drying
	Auto/Fan (Light Purple)	Automatic or fan operation
	Heat (Light Pink)	Heating
	Mixed (Light Gray)	Multiple operation modes are mixed in the same group.
	Schedule	Schedule timer is set.
	Filter Sign	Filter cleaning alarm sign
	Op. Controlled	Indoor units and outdoor units opera- tion mode is under control.
<b>X</b>	Op. Restricted	Operation is restricted by any func- tion.

Room Icon

lcon	Name	Content
A☆ ●	Mode	Operation mode
8	Set. Temp.	Set temperature
All	All	Standard remote controller all opera- tions prohibited
∲⁄	On/Off	Standard remote controller ON/Off operation prohibited
	On	Standard remote controller ON op- eration prohibited
AX	Mode	Standard remote controller opera- tion mode prohibited
1	Temp.	Standard remote controller tempera- ture setting operation prohibited
(j)	Timer	Standard remote controller timer setting operation prohibited
	Filter	Standard remote controller filter reset operation prohibited

**Operation Mode** 

Set temperature

# 1-1-3 Changing group display hierarchy

## Monitor Mode (Icon)



Use when changing the hierarchy of the group displayed on "Monitor Mode" screen.

# Notes

1

The following 3 buttons move the group hierarchy screen.

Тор	Moves to the hierarchy at the top of the screen
tup (	Moves the screen to the next higher hierarchy
Down	Moves the screen to the next lower hierarchy

# 1-1-4 Changing "Monitor Mode" screen display range

# Monitor Mode (Icon)



## Monitor Mode (List)



**1** Scroll the screen using the up/down and left/right buttons on "Monitor Mode" screen. Check the items which cannot be displayed on 1 screen by scrolling.

# Notes

The following 6 buttons scroll the screen.

1	Scrolls the screen up in page units.
¥	Scrolls the screen down in page units.
	Scrolls the screen up 1 line at a time.
V	Scrolls the screen down 1 line at a time.
	Scrolls the screen to the left 1 column at a time. (Effective for list display only)
	Scrolls the screen to the right 1 column at a time. (Effective for list display only)

# 1-1-5 Selecting and deselecting a single indoor units group

2



- 1 Narrows down the group you want to select from the group hierarchy display. The narrowed down "Remote controller group" or "Group" is displayed on the screen.
  - Select the relevant indoor unit.
  - The selected indoor unit becomes the selected state (blue).
  - When re-selected in the selected state (blue), the selection is deselected.

# 1-1-6 Selecting all indoor unit groups

Monitor Mode (Icon)



• Select all the "Remote controller group" or "Group" indoor units of the displayed hierarchy.



 All the selected indoor units becomes the selected state (blue).

# 1-1-7 Deselecting all indoor unit groups

Monitor Mode (Icon)



- Deselect all the "Remote controller group" or "Group" indoor units of the displayed hierarchy.
  - Click "Clear All" button.
- All the selected indoor units becomes the deselected state.

# 1-1-8 Starting (On) operation of all indoor units group



1

# 1-1-9 Stopping (Off) operation of all indoor units group

#### Monitor Mode (Icon)



Click "Select All" button.

- All "Remote controller group" or "Group" indoor units of the displayed hierarchy are selected (blue).
- 2 Click "Off" button.
  - Operation of all the selected indoor units stops

## Note

1

When a password is set at "Operating Setting", the password must be input.

# 1-1-10 Starting (On) operation of selected indoor units group

## Monitor Mode (Icon)



- Select the relevant indoor units from within "Remote controller group" or "Group" on "Monitor Mode" screen.
- The indoor units becomes the selected state (blue).
- Click "On" button.
- The indoor units start to operate under the preset conditions.

## Note

When a password is set at "Operating Setting", the password must be input.

# 1-1-11 Stopping (Off) operation of selected indoor units group

#### Monitor Mode (Icon) Monitor Mode Top t Down List Sett Office A Schedule 1 821.5°C (D) 8 26.0°C . Select All m 101 Restrant Entrance C # #Auto 101 \$8Auto 1 24.0°C Y [0] Clear All Off EIN 821.5°C 21.0°C Operation Conference nference A Parking lo On 18 Heat 8 21.5°C 8 22.0°C 200 Off 1 hedule Dp. Controlled Mode or Sign COp Restricted SetTe

## Select the relevant indoor units from within "Remote controller group" or "Group" operating on "Monitor Mode" screen.

- The indoor units becomes the selected state (blue).
- Click "Off" button.
- Operation of the selected indoor units stops.

## Note

When a password is set "Operating Setting", the password must be input.

# 1-1-12 Expanding the name display of indoor units group

#### Monitor Mode (List)



- When the name of the indoor unit group is longer than the display area on "List" screen, expand the display frame to display the entire name.
  - Click "Expand" button.
- The name display frame is expanded and the entire name is displayed.

To return the display to its original state, click "Return" button.

# 1-1-13 Checking the error list when an error occurs

## Monitor Mode (Icon) / Error List



When an error occurs, "Error List" window opens at the bottom of monitor mode screen.

## Note

1

The 3 items "Name", "Address", and "Error Code" are displayed in "Error List" window. The items are displayed in both "Icon" Display and "List" Display. However, if there is not even 1 error, "Error List" window is not displayed. Monitor Mode (List) / Error List



Monitor Mode (List) / Error List



2 When there is a display hidden at the top or bottom of "Error List" window, scroll the list display up or down by clicking "▲" or "▼" button.

To close "Error List" window, click "X" button.

When "Error List" button is clicked, " $\triangle$ " window is reopened.

# Note

Δ

3

"Error List" button is displayed when "Error List" window was closed.

• "Error List" button is continuously displayed until the error is resolved.

# 1-1-14 Selecting the indoor units group to be controlled

4



Monitor Mode (List)



• Control the indoor units.

- Control the indoor units group on "Monitor Mode" screen.
- Select the relevant indoor units from within "Remote controller group" or "Group" operating on "Monitor Mode" screen.
  - The indoor units becomes the selected state.

## Note

When a password is set at "Operation Setting", the password must be input.



Click "Operation" button.

• "Operation Setting" screen opens.

# Chapter 2 CONTROL

# 2-1 Control

# 2-1-1 Main screens of Control

## **Operation Setting**



\*1. Lights when operation mode is controlled by master unit.

## **Optional Setting**



## Operation Setting



## Click "On" button.

 Operation start setting of the selected (blue) indoor units is performed. When "Off" button is clicked, operation stop setting is performed.

Click "OK" button.

The set contents are executed.

## Note

1

When " $\bigtriangledown$ " button at "Control Unit" on "Operation Setting" screen is clicked, selected "Remote controller group" or "Group" is displayed.

# 2-1-3 Setting the operation mode



Click the mode button to be selected.

## Note

1

When the function does not exist at the objective unit, setting cannot be selected. Buttons with their operation prohibited cannot be clicked.

## Note

When "Operation Controlled" is displayed, there is no cooling and heating selection right.

## 2-1-4 Setting the temperature

#### Operation Setting



Select the set temperature using "▲" button" and "▼" button. Check the set temperature at the display section.

## Note

When the "▲" button or "▼" button is pressed, Celsius display increases and decreases in 0.5°C steps and Fahrenheit display increases and decreases in 1°F steps.

# Notes

Here, the settable temperature range is different for each operation mode.

For the settable temperature ranges, see "Setting settable temperature range".

Temperature unit	Celsius (°C)	Fahrenheit (°F)
Set temperature (Auto, Cool, Dry)	18°C-30°C	64°F - 88°F
Set temperature (Heat)	10°C-30°C	48°F - 88°F

## Note

The heating set temperature range of 10°C to 15°C (48°F to 58°F) may not be settable, depending on the indoor unit model.

# 2-1-5 Setting the fan (air flow)

## Operation Setting



Click the button selected from "Fan" operation section.

## Note

1

The 5 items "Auto", "High", "Med", "Low", and "Quiet" can be selected at "Fan" operation section.

## Note

When the function does not exist at the objective unit, setting cannot be selected.

Buttons with their operation prohibited cannot be clicked.

10/11/2008 Mon. 02:20 PM Statt R Operation Setting Control Unit: Meeting Room 8 Or 24.0 °C MONO# a 6 Cool High a 8 1 On . 1 Dry Y Med Fan Low M Temp d d Quiet Heat Operation Controlled a 6

2-1-6 Setting R.C. Prohibition

 This setting centrally controls air conditioning equipment by prohibiting operation from the standard remote controllers connected to each remote controller group or group.

Select the control item whose operation from a remote controller is to be prohibited and click the button.

# Note

The items which can be selected are the 7 items "All", "On/ OFF", "On", "Mode", "Temp.", "Timer", and "Filter".

## Note

When a control item button is not pressed (display is turned off), there are no setting restrictions. Check with the manager.

# Notes

The function which can be set here has the following contents

R.C. Prohibition	Contents
All	Operation of all control functions are enabled or disabled.
On/Off	"On/Off" operation is enabled or dis- abled.
On	"On" operation is enabled or disabled.
Temp.	"Temp." operation is enabled or dis- abled.

R.C. Prohibition	Contents
Mode	"Mode" operation is enabled or dis- abled.
Timer	"Timer" operation of remote controller is enabled or disabled.
Filter	"Filter" operation is enabled or disabled.

# 2-1-7 Displays "Optional Setting" screen





1

Click "Optional Setting" button.

"Optional Setting" screen opens.



# 2-1-8 Setting "Air Flow Direction (up/down)"



# 2-1-11 Setting "Anti Freeze" operation

V

OK

8

#### **Optional Setting**



est O

Click "On" button or "Off" button. "Anti Freeze" operation set/reset is performed.

## Note

When the function does not exist at the objective unit, setting cannot be selected.

# Note

Anti Freeze is a function that performs low temperature heating operation to prevent freezing of water lines and equipment, when air conditioning operation is off, in regions where outside temperature may drop below freezing.

If water lines are far from the unit or within exterior walls, this function may not provide enough anti freeze protection.

# 2-1-12 Resetting "Filter Sign"

## Optional Setting



# 2-1-13 Test operation

Optional Setting



1 Click "Reset" button

## Note

When the function does not exist at the objective unit, setting cannot be selected.

## Note

"Filter Sign" indicates the air clean filter cleaning interval set at the indoor unit. Reset the sign when the filter was cleaned.

Click "Start" button.

## Note

1

Test operation of the indoor unit selected at "Operation Setting" screen starts.

# Notes

There are the following 2 methods of resetting test operation.

①Automatic reset when 60 minutes has elapsed. ②Reset when operation stop was performed.

# 2-1-14 Checking "Special State" of an indoor units group

## Optional Setting



The current special state of the system is displayed at "Special State" display section of "Optional Setting" screen.

# Notes

The followings are displayed at "Special State" display section.

"Special State" display items	Contents
Stand by (Defrost)	Defrost operation
Stand by (Oil Recovery)	Oil recovery operation
Under Maintenance	System is in the maintenance mode and the equipment cannot be operated.
Master indoor unit	Indoor unit has the cooling and heating selection right.
Master controlled (indoor unit)	Indoor unit is controlled by an indoor unit with the cooling and heating selection right.
Outer controlled (indoor unit)	Indoor unit is controlled by an outdoor unit with the cooling and heating selection right.
Test Operation	Test operation
Mode Mismatch	Different mode
Automatic Addressing	Operates the automatic address function.

# 2-1-15 Ending setting of "Optional Setting" screen

Optional Setting



- If "Optional Setting" has ended, click "OK "button.
- The set operation is performed.
- "Optional Setting" screen closes.

# 2-1-16 Ending "Operation Setting"

## Operation Setting



- If "Operation Setting" has ended, click "OK "button.
- The set operation is performed.
- "Monitor Mode" screen opens.

# 2-1-17 Displaying "User Setting/ History" screen

## Monitor Mode (Icon)



- Switch "Monitor Mode" screen to "User Setting/History" screen.
- Click "Setting" button.

## Note

1

When a password is not set at the access right to "User Setting/History", operation goes directly to "User Setting/ History" screen. User setting/ History password Verification



 "User setting/ History password Verification" keyboard screen opens.

Key in "User setting/ History password" to be registered.

• "User Setting/History" screen opens.

## Note

2

There are 3 menu buttons "System Setting", "Preference", and "History" in "User Setting/History" screen.

# 2-1-18 Displaying "Schedule Setting" screen

#### Monitor Mode (Icon)



#### User Setting/ History Password Verification



## Schedule Setting



- Switch "Monitor Mode" screen to "Schedule Setting" screen.
- Click "Schedule" button.

## Note

1

2

When a password is not set at the access right to "Schedule Setting", operation goes directly to "Schedule Setting" screen.

 "User setting/ History password Verification" keyboard screen opens.

Key in "User setting/ History password" to be registered.

"Schedule Setting" screen opens.

## Note

Use operation by yearly calendar, "Custom Day" operation and a variety of other schedule operations by using "Schedule Setting".

# Chapter 3 SETTING

# 3-1 Language setting

## 3-1-1 Start system initialization



#### Installer Setting

User Setting / History

System Settin

System Setting

Date / Time Setting

Schedule Setting

Installer Setting



# 3-1-2 After system initialization

01/01/2009 Thu: 12:12 AM Status:Off

01/01/2009 Thu: 12:12 AM Status:Off

Group Setting

Password Setting

E Language

Monitor

1

2

Close

# • Display language setting when indoor unit not registered.

- Turn on the touch panel controller power.
- "Language Setting" screen of "Installer Setting" opens.
- Click the language button to be selected.
- 2 Click "OK" button.

"Date and Time Setting" screen opens.

## Note

1

When shifted to the "Date and Time Setting" screen, switched to the screen of the selected display language.

## Note

See "3-2 Date Setting" for a detailed description of "Date and Time Setting".

## Notice

Perform initialization in the state in which all installation work is complete and the system can be started. Perform installation work in accordance with the installation manual of the equipment to be installed.

- Display language setting when indoor unit registered.
  - Click "System Setting" button.
  - "System Setting" screen opens.



"Language Setting" screen opens.

Language Setting



3 Click the language button to be selected.

4 Click "OK" button.

• "System Setting" screen opens.

## Note

When shifted to the "System Setting" screen, switched to the screen of the selected display language.

# 3-2 Date setting

# 3-2-1 Main screens of date setting

#### Date and Time Setting Settings set to the factory default. Perform P Date and Time Setting initial setting. "-" button -01/01/2009 12:00 AM + "+" button Setting Enable/Slave Interval Day/Month/Year V Automatic System Clock Adjustment Edit "Edit" button 12:00-11:59 AM/PM Disable "Execute" button Cancel ÖK "OK or Send" button Date Format Time Format Summer Time "Cancel" button Date and Time Setting (Automatic System Clock Adjustment) 01/01/2009 Thu, 03:29 AM Status:Off Date and Time Setting "Disable" button Disable "Master" button "Slave" button Slave Periodic updating date AM Sun. 0 0 2 1 . . 1 . 7 . . . Cancel OK "OK" button "Cancel" button

En-26

# 3-2-2 Setting the current date and time

Date and Time Setting		
Date and Time Setting 01/01/2009 Thu. 12:00 AM	1 Select "ite	em to be set" using "◀" and "▶" buttons.
Changing the date and time may effect the following settings.	To increm	ent the set value, click "+" button.
01/01/2009 12:00 AM	To decrer	nent the set value, click "-" button.
01/01/2009 12:00 AM - +	Note	
Dav/Month/Year	The calendar	covers the period up to the year 2037.
Time Format 2	Note	
Summer Time Manual System Clock Adjustment	Note:	
Disable V Exercise	When the tim	e was set, the time count stops. Always
Cancel	CHECK THE SET	une.
3-2-3 Selecting the date display	format	
Date and Time Setting	1 Click "V	7" hutton on "Date Format"
Date and Time Setting     O1/01/2009 Thu. 12:00 AM     Status:Off		buildin on Dale i offial .
Changing the date and time may effect the following settings. • Schedule Setting	<ul> <li>A display</li> </ul>	format list opens.
01/01/2009 12:00 AM	Click the	display format to be selected.
Date Format. Automatic System Clock Adjustment		
Day/Month/Year Settion Enable/Slave	<ul> <li>Verify the</li> </ul>	selected display format at the screen.
12:00-11:59 M/PM V Edir	Note	
Disable V Execute	"Day/Month/	ear", or "Month/Day/Year", "Year/Month/
Cancel OK	Day can be	selected.
3-2-4 Selecting the time display	format	
Date and Time Cathler	Tormat	
	Click "▽"	outton on "Time Format".
Changing the date and time may effect the following settings.		format list oppop
· Schedule Setting		
01/01/2009 12:00 AM	2 Click the d	lisplay format to be selected.
Date Format Day/Month/Year	<ul> <li>Verify the</li> </ul>	selected display format at the screen.
Time Format	Note	
Summer Tup	"12:00 - 11:59	AM/PM", "00:00-11:59 AM/PM", or "0:00-
Disable Execute 2	23:59" can be	e selected.
Cancel OK.		
3-2-5 Setting the summer time		
Date and Time Setting		hutton on "Summor Time"
Date and Time Setting 01/01/2009 Thu: 12:00 AM Status:Of		button on Summer Time.
Changing the date and time may effect the following settings. • Schedule Setting	<ul> <li>A display</li> </ul>	list opens.
01/01/2009 12:00 AM	Click the	display to be selected.
Date Format. Automatic System Clock Adjustment	2	
Day/Month/Year V Setting Enable/Slave Interval	<ul> <li>Verify the</li> </ul>	selected display at the screen.
12:00-11:59 AM/PM Z Edit Summer Units	Notes	
Disable	See the table	shown below for the items which can be
Cancel	selected.	
2	Item	Display contents
		Display i nour anead of the current time.
	Disable	Display the current time.

# 3-2-6 Setting Automatic System Clock Adjustment.

## Date and Time Setting

Changing the date and time m Schedule Setting	iay effec	I the following settings.
01/01/2009	12	:00 AM
Dates Formula		Automotic System Cluck Adjustment
Day/Month/Year		Setting Enable/Slave
lime Format		Instra
12:00-11:59 AM/PM		Edit
Summer Time		Manual System Clock Adjustment
Disable		Execute
Disable	▼	Execute

#### Date and Time Setting (Automatic System Clock Adjustment)



# • Setting which adjusts the time display of the equipment inside the system

- 1 Click "Edit" button on "Automatic System Clock Adjustment".
  - "Automatic System Clock Adjustment" screen opens.
- 2 Click the appropriate button from among "Disable", "Master" and "Slave" buttons.

## Notes

Disable: Automatic clock adjustment function is not performed.

Unaffected by the master clock setting.

- Master: Master unit automatic clock adjustment setting Sets the clock of other units to match the master unit clock.
- Slave: Corrected to match the master unit clock by automatic clock adjustment.

"Master" is setting of 1 unit in the system.

\*"Master" is a unit in the system and becomes setting of 1 unit.

- 3 "Date of Week" and "Time" set by the automatic system clock adjustment are displayed.
  - When Master was set, perform the setting shown below.
  - Set "Date of Week" and "Time" which perform the au-
  - Itomatic system clock adjustment using the "▲" and "▼" buttons.
- **5** At the end of setting, click "OK" button.
  - "Automatic System Clock Adjustment" screen closes.

## Notice

• Time setting precaution:When the clock is adjusted automatically, specify a time late at night, etc. when operation is not performed and the timer is not operating.

## 3-2-7 Adjusting the system clock manually

## Date and Time Setting



- When you want to execute time setting immediately at that point
- Move to the setting area using the arrow buttons and change the time using "+" and "-" buttons.
   After changing the time, click "Execute" button.

## Notice

This function is effective only when "Master" of "Master/ Slave" setting of "Automatic System Clock Adjustment" screen is set.





Transferring Data Screen



 "Manual System Clock Adjustment" confirmation screen opens.



- "Transferring Data" screen opens.
- At the end of transmission, "Transferring Data" screen closes.

## Notes

When the time is changed while set to "Master" at the "Automatic System Clock Adjustment" screen, the "OK" button of the "Date and Time Setting" screen changes to the "Send" button.

When the "Send" button is clicked, the time is entered and the "Manual System Clock Adjustment" screen opens.

## 3-3 Group setting

• Group setting precaution:

Group setting changes also affect the groups registered at schedule setting and the name and composition of the remote controller groups. When group setting was changed, check the schedule setting.

# 3-3-1 Main screens of Group Setting

Group Setting



## Group Details Setting



Remote Controller Group Details Setting



## **Temperature Setting**



## 3-3-2 Setting a new group



## • Creating a Group

- Click "New" button after selecting "Top" or "Group" on "System Configuration" display.
- "Group Details Setting" screen opens.

#### Group Details Setting



#### Group Name



#### Group Details Setting



## Notes

- Group hierarchy can be composed up to 3 hierarchies. The number of group compositions is up to 400 groups including all hierarchies.
- Up to 800 remote controller groups can be registered at group composition.

## Group composition:

- The group composition is displayed. When a group is set, that group composition is displayed.
- The default is "Top" groups only.

## Remote controller group:

- All the remote controller groups registered at the touch panel controller are displayed.
- For remote controller groups already registered at a group, the list No. area is displayed by hatching as registered display.

2 Click "Rename" button.

- "Group Name" screen opens.
- 3 Key in "New Group Name" or click "▽" button and select "New group name" from the pull-down list.

## Notes

## Keyboard operation method:

- When "▽" button on the keyboard is pressed, a list appears and the type of characters is displayed.
- When "a/A" button is pressed, upper case characters/ lower case characters is switched.
- When "Space" button is pressed, a space is inserted.
- When "←" or "→" button is pressed; the character input position is changed.
- When "BS" button is clicked; 1 character being input is deleted.
- When "CL" button is clicked; all the characters being input are deleted.

## Notes

- Up to 12 characters can be entered.
- Characters exceeding "Display Range" may not be displayed, depending on the screen.
  - Click "OK" button.

Δ

- "Group Details Setting" screen opens.
- 5 Select by clicking the icon displayed on the monitor. Switch the display using "◀" and "▶" buttons.
- 6 Click "Close" button.
  - "Group Setting" screen opens.

# 3-3-3 Changing the setting of a group or remote controller group



## • Change a group setting.

Click the group whose setting you want to change at "System Configuration" display.



"Group Details Setting" screen opens.

## Note

When a remote controller group is selected, "Property" button of "System Configuration" display cannot be selected.

## Notice

Note that when a group setting is changed, the schedule setting is also affected.

## • Change a group name

- 3 Click "Rename" button.
  - "Group Name (Rename)" screen opens.
  - Key in "Group name" or click " $\bigtriangledown$ " button and select "Group name" from the pull-down list.

## Notes

- Up to 12 characters can be entered.
- Characters exceeding "Display Range" may not be displayed, depending on the screen.

# 5 Click "OK" button.

"Group Name (Rename)" screen closes.

## Note

Λ

To abort the change, click "Cancel" button.

- Indoor unit upper/lower limit temperature setting change
  - The settable temperature range of the indoor units registered in a group is restricted.
- 6 Click "Change" button.

# Indoor unit upper and lower limit temperatures setting change

See par. "3-6-15" for a description of the setting meth-

od.

\*When "OK" button is pressed after the end of setting, the display returns to "Group Details Setting" screen.

## Group Details Setting



## Group Name (Rename)



Group Name (Change Group Name)



Temperature Setting



Group Setting



## Remote Controller Group Details Setting



## R.C. Group Name (Rename)



R.C. Group Name (Change Group Name)



# Notes

- Set the upper and lower limit temperatures settings to the registered indoor unit.
- \*The temperature settings from the Standard Remote Controllers are restricted.
- When the display is blue, the setting value from touch panel controller is displayed. When the display is white, the monitoring value from the indoor unit is displayed.
- When inappropriate setting is performed, the values are displayed in red. The displayed contents are not effective. Enter them again.
- Only lower limit or upper limit setting cannot be determined. Determine the set contents after entering both values.
- See par. "3-6-15" for setting the upper and lower limit temperatures settings from the touch panel controller main unit.
- Change the setting of a remote controller group
- 1 Click the remote controller group whose setting you want to change from "Remote Control Group List".
- 2 Click "Property" button at "Remote Control Group List" side.

## Note

When a remote controller group is not selected or multiple remote controller groups are selected at "Remote Control Group List", "Property" button on "Remote Control Group List" cannot be clicked.

• "Remote Control Group Details Setting" screen opens.

## Change a remote controller group name

- 3 Click "Rename" button.
  - "R.C. Group Name (Rename)" screen opens.
- 4 Key in "Remote Controller Name" or click "

  ¬" button and select "Remote Controller Name" from the pulldown list.

## Notes

- The number of characters which can be input is 12 characters.
- Characters exceeding the range of "Display Range" may not be displayed, depending on the screen.

5 Click "OK" button.

"R.C. Group Name (Rename)" screen closes.
 "Remote Controller Name" is changed.

## Note

To abort the change, click "Cancel" button.

**Temperature Setting** 

Temperature Setting			09 Mon.	04:56 PM	Status: 0
Temperature Setting					
Temperature Range					
All Mode		Lower Limi	•	Upper Lin 29.0°C	iit
Individual Mode		Lower Limi	ı	Upper Lin	1it
		19.0°C	V	- 29.5° C	V
		19.5° C	V	28.5° C	V
No Limitation	Heat	20.0° C	V	28.0° C	V
Cancel					ок

- Indoor unit upper/lower limit temperature setting change
  - The selected settable temperature range of the indoor units is restricted.
- 6

Click "Change" button.

Indoor unit upper and lower limit temperatures setting change

See par. "3-6-15" for a description of the setting method.

\*When "OK" button is pressed after the end of setting, the display returns to "R.C. Group Details Setting" screen.

## Notes

- Set the upper and lower limit temperatures settings to the registered indoor unit.
- \*The temperature settings from the Standard Remote Controllers are restricted.
- When the display is blue, the setting value from touch panel controller is displayed. When the display is white, the monitoring value from the indoor unit is displayed.
- When inappropriate setting is performed, the values are displayed in red. The displayed contents are not effective. Enter them again.
- Only lower limit or upper limit setting cannot be determined. Determine the set contents after entering both values.
- See par. "3-6-15" for setting the upper and lower limit temperatures settings from the touch panel controller main unit.

# 3-3-4 Adding a remote controller group to a group

Croup Setting	05/01/2009 Mon. 04:52 PM Status: Off	Click the group to which the remote controller group is
System Configuration	Remote Control Group List	added from "System Configuration".
Cop Office2	000 Cafe	<ul> <li>The selected display becomes blue.</li> </ul>
- Cafe	001 Cafe 002 Restaurant	2 Olick the remote controller group to be added from
Office4	003 Restaurant1	"Remote Control Group List"
- Flont Desk1	004 Restaurant2	<ul> <li>The selected display becomes blue.</li> </ul>
New Property 7 Delete Move 2	Up Registerd Down Add	3 Click "Add" button.
Export Data	Import Data	<ul> <li>"Remote Controller Group" is added to the group selected at "System Configuration" display.</li> </ul>

## 3-3-5 Moving a group or remote controller group within the same group

2

## Group Setting



- Click the group or remote controller group you want to move from "System Configuration" display.
- The selected group or remote controller group display becomes blue.
  - Click " I Up" button or " Down" button.

# 3-3-6 Moving a group or remote controller group to a different group

#### Group Setting

Group Setting		ajutizuus mun. unaz PM	atus: Or j
stem Configuration		Remote Control Group List	
Тор	1	No. Name	± 1
Office2		000 Cafe	
- BC fe		001 Cafe	
- Cafe2		002 Restaurant	
Official		003 Restaurant1	
Office4	- 7	004 Restaurant2	Ŧ
Flont Desk1		005 Restaurant3	
New Property	1 Up		
Delete Move	-	[* ··· ][ *···	- 7
Export D	ata Import [	Data	Close

- Click the group or remote controller group you want to change from "System Configuration" display.
- The selected display becomes blue.
- Click "Move" button.
- The group or remote controller group selected at step
  is selected and displayed.



## Note

A group of up to 2 hierarchies can be created. The 3rd hierarchy is the remote controller group only.

## Notes

Display the list hidden at the group configuration display by scrolling the screen up and down using the " $\bigstar$ ", " $\bigstar$ ", " $\bigstar$ ", " $\bigstar$ ", and " $\clubsuit$ " buttons.

## Notes

## Canceling a move

1) Click "Move" button again.

- (2) Click the same group or remote controller group.
  - "Move confirmation" screen opens.
  - When "OK" button is clicked, the group moves.
- NG:

5

- "Group Hierarchy exceeded" screen opens.
  - Click "Close" button.
- "Group Hierarchy exceeded" screen closes.

## 3-3-7 Deleting a group or remote controller group



#### Move Confirmation Screen



Group Hierarchy exceeded Screen


Deletion Confirmation Screen



3 If it's alright to delete the group, click "OK" button.

• Deleted "Group Name" disappears from the screen.

#### Notice

When the group is deleted, all the configurations in the group are also deleted.

## Note

When "Remote Controller Group" was selected, the group is deleted without opening "Deletion confirmation" screen.

# 3-3-8 Exporting the group composition list file to external memory

1

#### Group Setting



#### Exporting USB Screen



USB Exporting Complete Screen3



 Connect a USB memory to the external memory terminal.

Click "Export Data" button

"Exporting USB" screen opens.

## Note

The file name is exported in "Gr, date, time" form.

◆ "USB Exporting complete" screen opens.



Click "Close" button.

 Disconnect the USB memory from the external memory terminal.

# 3-3-9 Importing group composition list file from external memory

#### Group Setting



- Connect the USB memory to the external memory terminal.
  - Click "Import Data" button.

Importing Confirmation Screen



# 3-3-10 Editing a group configuration file of the touch panel controller by PC

• "Group configuration file" is exported to USB memory by "Export Data" button on "Group Setting" screen of the touch panel controller.



- "Group Setting File Making Sheet" is opened on the computer.
- Click "Group Setting 1" sheet tab.
- Connect the USB memory to the PC.
- Click "Import data" button.

Select the file to be imported at "Group Setting 1" sheet.

# Notice

When editing at the File Making Sheet and importing the data to the touch panel controller, pay attention to the following points.

Since the registered indoor unit data is overwritten and the following data are changed when data is imported, confirm the data again.

Schedule data (unit setting)

# Notice

In the following case becomes NG when data is imported to the touch panel controller even when Check on the File Making Sheet above is OK.

• When the imported data contains the address of a remote controller group that does not exist in the touch panel controller

#### Group Setting 1



• The RC groups registered at the touch panel controller are displayed at the Group Setting 1.

Edit the 3 contents "Address", "RCG Name", and "Icon Data".

# Notes

Contents which can be set									
Refrigerant Circuit Address	Enters the refrigerant system address (0- 99).								
Indoor Unit Address	Enters the indoor unit address (0-63).								
RCG Name	Enter the remote controller group name within 12 characters.								
Icon Data	Enter the icon number (0-99) selected from the icon list.								

# **Notes**



#### Note:

1) A "\_" (underbar) is necessary between Refrigerant Address and Indoor Unit Address.

2) Only half-size characters can be input.



At the end of all editing, click "Check" button.

# Notes

When "Check" button was clicked, whether or not there is an error in the entered address is automatically checked and an error is generated. If there are no errors, the file is output.

Error message	Problem point
Entered data error. Address is duplicated. Enter correct data.	Address is duplicated.
Entered data error. The address is blank or 400 or more are entered. Enter correct data.	Address is blank or 400 or more.
Entered data error. RCG Name is 12 or more characters. Enter correct data.	RCG Name is 12 characters or more.
Entered data error. Blank or a number other than 0-99 is entered at Icon Data. Enter correct data.	Icon Data is blank or a number other than 0-99 was entered.
Entered data error. The format of address is different. Enter correct data.	The address format is incorrect.

#### Check finished



 "Check finished" screen is opened and the message is confirmed.

Click "OK" button.

Select "Group Setting 2" sheet tab.

## Group Setting 2

A IS	Boup Set	a ₹ 1 % C • 282 • 0 ting File Making	Sheet (Pau	E 00 2/3	四 t 1 2) 「	G H Oteck	- 14 - <b>1</b> 7 0 1 J K Export Data	
-	10-0	and the second second	The Des	-	-			
1	1 2			1.1	1.2		the state of the second se	•
		2F Office	35	1	1			
	11	OfficeA	36	13				
	·			1.4	1.0			
	12	OfficeB	- 35	15				
	1 C		-	1.0				
	10	- Water -	1000	5.1				
	2	3F Office	35	3,4	1.1			
	121	OfficeA		3.5	2.1			
1	0 2		1.	3.2	110			
1	122	OfficeB	35	3.3	3,6			
1	2,3	OfficeC	35	3.7		and the second		
1	3 3	3#	40	10.1	-			
1	4 3,1	Mess Room A	1	102				
	1 1.2	Mean Room El	1	10.3				
	0.3	Mess Room C	1	10.4				
1	1.4	Meiss Room D	1	10.5			Frank Street Street	
	1.5	Designan A	0.0	10.6		100 C		

• At "Group Setting 2", the group created by touch panel controller group setting is displayed.

Edits the 4 items "Directory", "Group Name", "Icon Data", and "Address".

## Notes

1

	Means hierarchy.					
	Denoted by ① or ①_②. ① means 1st hierarchy and					
	(2) means 2nd hierarchy.					
	①:1st hierarchy group No.					
Directory	"0":Тор					
,	"1 to 400":Group No.					
	②:2nd hierarchy group No.					
	"①_1 to 400":Group No.					
	*Hierarchy is up to 2 hierarchies.					
	*The total number of groups is up to 400 groups.					
	This is the group name.					
Group	Up to 12 characters can be input.					
Name	*Group name is unnecessary at 0.					
	*When the 1st hierarchy "Directory" No. is duplicated, only the					
	This is the group display icon No.					
	Icon Nos. 0-99 are entered.					
Icon Data	*Icon No. is unnecessary at 0.					
	highest order "Directory" icon No. is entered.					
	*Reference from the icon table of the separate sheet.					
	This is the address of the RCG configured at group.					
Address	*Only the RCG address used by "Group Setting 1" can be					
Address	entered.					
	addresses cannot be duplicated in the same group.					

#### Example of data creation at Group Setting 2.

- Create Group Setting2 data based on the example of installation to a 3 story building like that shown in the figure at the right.
- 2) The management configuration of the figure below creates data at Group Setting 2 at the right.



• Different groups cannot be mixed and set.

Directory	Group Name	Icon Data	Address		
0					
1	1F	8	0_0		
1_1	Restaurant	65	0_1	0_2	
2_1	Office A	9	1_0	1_1	
1_2	Cafe 1	52	0_4	0_5	



#### 3) Creation data from Group Setting 2

	A		ы	U	U	E		_ U	
	Gro	bu	p Settir	na File Makina Sl	heet (Pac	ie 2/2			
	<u></u>								
			Directory	Group Name	Icon Data	Addres	s		
		1							
		2		1F	8	0_0			
		3	_1	Restaurant	67	0_1	0_2	0_3	
		4	_2	Café 1	52	0_4	0_5		
		5	_3	Caffe 2	52	0_6	0_7		
		6		2F	8				
		7	_1	Office A	9	1_0	1_1		
		8	_2	Office B	9	1_2	1_3	Ì	
		9	_3	Office C	9	1_4	1_5		
	2 1	0	_4	Office D	9	1_6	1_7		
	1	1		3F	8				
	1	2	_1	Office E	9	2_0	2_1	2_2	
	1	3	_2	Café 3	52	2_4	2_5		
	-1	4	_3	Office F	9	2_6	2_7		
	1	5							
1						1			

## Notes

Data creation rules (NG example)

• 0 cannot be set in a group.

Directory	Group Name	Icon Data	Address		
0					
1	1F	8	0_0		
1_1	Restaurant	65	0_1	0_2	
0					
1_2	Cafe 1	52	0_4	0_5	

A 1<sup>st</sup> hierarchy group must be set first.
 (A 2<sup>nd</sup> hierarchy cannot be set if there is no 1<sup>st</sup> hierarchy.)

Directory	Group Name	Icon Data	Address		
0					
2_3	Office A	9	1_0	1_1	
2_1	Office B	9	1_2	1_3	
2	2F	8			
2_2	Office C	9	1_4	1_5	

En-40



# Notes

When "Check" button was clicked, if there is an error in the entered data, an error is generated.

If there are no errors, the Check OK screen is displayed.

Error message	Problem point
Entered data error. Group name is 12 or more charac- ters.Enter correct data.	Group name is 12 or more characters.
Entered data error. Blank or a number other than 0-99 is entered at IconData.Enter correct data.	Blank or a number other than 0-99 is entered at Icon Data.
Entered data error. Data entered at Address is not en- tered at "Group Setting1"sheet. Enter correct data.	Do not enter data entered at Address at "Group Setting 1" sheet.
Entered data error. Blank or a number other than 1-400 is entered at Directory. Enter correct data.	Blank or a number other than 1-400 is entered at Directory.
Entered data error. Address is duplicated in the same Group. Enter correct data.	Address is duplicated in the same group.
Entered data error. Directory is duplicated in second hierarchy. Enter correct data.	Directory is duplicated at 2 <sup>nd</sup> hierarchy.
Entered data error. The format of Directory is different. Enter correct data.	Directory format is incorrect.

#### Check finished

heck	finished.		×	
Ų	Chech Ok! Please save file	to click 'Export	Data'.	
File Ope	n Procedure			2 🗙
	Folima S Folima S Olid DATA DECONTO (11 201 physics)			
<b>3</b>				
•	Me pane:			(B) gen

Save finished



- "Check finished" screen is opened and the message is confirmed.
- Click "OK" button. 3
- Click "Export Data" button. Δ
  - A save destination window opens.



6

Select USB memory.

## Notes

To import by touch panel controller, always output and save the file by "Export Data".

Click "OK" button.

"Save finished" screen closes.

# 3-4-1 Main screens of Schedule Setting

#### Schedule Setting



#### Schedule Units Setting



# Calendar (Calendar Setting)

Вc	alen	lar						11/01/2009 Sun. 09:17 AM Status: Off	"Calendar Setting" button
Sc.N	Cale Sett	ndar ing scdli	name	5	Cu Se	stom		Schedule Pattern A B C D E F G H 0 2 4 6 8 10 12 14 16 18 20 22 24	
	(a)		01/	2009		Next	>>		
w/m	Sin (C)	Mon	Tue E	Wed F	Thu (G)	Fi	Sat (B)	û ∆On Mode/Temp. ∰All ∰On/Off 🖪 Temp.	
1	1	20	1.0	M	1		3	Off () R.C. Prohibition On III On III Timer R.C. Prohibition Off III Mode III Filter	Schedule Pattern
2	1	5	6	7	8 (E)	4	10	Op, Time On/Off Mode Set Temp R.C. 08:10 AM On Cool 24.0°C	
3	11	12	13	14	15	15	17	09:10 AM 24.5°C - 10 10 AM 25.0°C -	
4	18	19	20	21	22	23	24	11:10 AM - 25.5°C -	
5	25	26	27	28	29	30	31	Edit 🖌 🕨	
6	F	0	100	4	1		1	Close	"Close" button
-		_							
						1			
	L								"Back" button

# Calendar (Custom Setting)

🐼 Calendar			11/01/2009 Sun: 09:13 AM Status: Off	"Custom Setting" button			
Calendar Custom Setting Setting			iustom letting		Schedule Pattern		
Sc.Na	ume s	cdiname1	l t			ABCDEFGH	
Pri.	Pattern	Month	Week	D		ο/1 Δ Δ Δ	
2	A	Monthly		22		∴ On         Mode/Temp.         III III III On/Off II Temp.           ♥ Off () R.C. Prohibition On         III On         III Temp.           ● R.C. Prohibition On         III On         III Temp.	Schedule Pattern
3	D	4	1	D		Op. Time On/Off Mode Set Temp. R.C.	
4	D	3	6	D		08:00 AM On Cool 18.0°C -	
5	F	Monthly	1	1			
Add	E	tit Del.		Dou	vn	Edit Close	"Close" button
							"Edit" button "Down" button
			L				"Up" button
		L					"Del" button
							"Edit" button
L							"Add" button

# Schedule Pattern Setting

Schedule	C D	ting E F	22/12/2 G	2008 Mon. 08:59	AM Status: Off	"Schedule Pattern" button
0 2 4 6 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8, 10, 12, 1 Δ123000	4 16 18 20 22	24	On Off Made/Temp. R/C Prohibition Of R/C Prohibition Of All On/Off On.	Schedule Pattern Copy/Paste	"Copy" buttop
			<b>A</b> 8	Mode	copy	Copy bullon
10:00 AM On	Cool	All		Timer	+ Paste	"Paste" button
11:00 AM -	- 27.0°C	-	V 6	Filter		
00:00 PM	- 27.5°C			Add		"Add" button
01:00 PM	- 28.0°C			Edit		
02.00111	EUL C					
02:00 PM	- 28.5°C	14		Delete		"Delete" button
					Close	"Close" button

## **Operation Setting**



# 3-4-2 Setting a new schedule



- Click "New" button on "Schedule Setting" screen.
- "Keyboard (Change Schedule Name)" screen opens.

# Note

1

Up to 30 schedules can be created. If 30 schedules have already been created, "New" button cannot be clicked.

# Notes

Schedule List: Displays the set schedules. Scheduled Units List: Displays the scheduled units. Current Schedule List: Displays the current day's schedule. Schedule Name

scdiname20

On/Off New Copy 5 Up Delete Rename Down



¥

# Note

At initialization, "Schedule List" of "Schedule Setting" screen is blank.

Input "Schedule Name" by keyboard.

# Note

2

See par. "3-3-2" for a description of the keyboard operation method.

# Notes

Up to 24 characters can be entered as "Schedule Name".

Characters which exceed the range of "Display Range" may not be displayed, depending on the screen.



1

Click "OK" button.

 "Schedule Name" is registered and "Schedule Setting" screen is opened.

# Note

The contents of schedule operation are described in par. 3-3-7.

#### Setting schedule enable/disable 3-4-3

Op. Time On/Olf Mode Set Tem

07.50 AM On 08:00 AM --Cool

10:00 AM 11:00 AM

Edit

.

7

26.0°C 26.5°C 28.0°C

Close

-



Click "Schedule Name" you want to change the setting on "Schedule List" screen.

- Selected "Schedule" display becomes blue.
- Click "On/Off" button. 2

# Notice

When "On/Off" status on "Schedule List" screen is "On". that Schedule Unit List is executed. If "Schedule List" is "Off", that Schedule Unit List is not executed.

# Note

When a new schedule was set, the default is "On".

#### Changing a schedule name 3-4-4

# Schedule Setting



#### Schedule Name



# Note

See par. "3-3-2" for a description of the keyboard operation method.

# Notes

Up to 24 characters can be entered as "Schedule Name".

Characters which exceed the range of "Display Range" may not be displayed, depending on the screen.

- **4** At the confirmation of the entered name, click "OK" button.
  - "Schedule Setting" screen is opened by performing the changed contents.
- Schedule Setting 15/12/2008 Mon. 10:39 AM Status: Off Scheduled Units Setting Schedule List Cafe Care . 1 mel Y On scdiname5 Sales Div. Edit On scdiname11 • Current Schedule On scdiname4 Op. Time On/Off Mod ¥ 07.50 AM On Cool 08:00 AM -- --On scdiname20 26.0°C 26.5°C T 10:00 AM --2 On/Off New Copy Delete Rename Down Edit 4 1 Close

3-4-5 Copying a schedule

1 Click "Schedule Name" you want to copy on "Schedule List" screen.

- The selected display becomes blue.
- Click "Copy" button.
- "Schedule Name" copied under "Schedule Name" selected on "Schedule List" is created and "Change Schedule Name" screen is opened.

# Note

2

"Schedule Name" becomes the same "Schedule Name" as the copy source "Schedule Name".

# Note

See par. 3-3-3 for the method of operating the keyboard when changing the name



# 3-4-6 Deleting a schedule

# 3-4-7 Setting a group or remote controller group to be operated on a schedule

Change the units operated on a schedule from     "Schedule Liet"
Schedule List .
Click "Schedule Name" whose setting is to be changed from "Schedule List".
2 Click "Edit" button of "Schedule Units Setting".
<ul> <li>"Schedule Units Setting" screen opens.</li> </ul>
3 Select and click the group or remote controller group you want to operate from "Units List".
<ul> <li>The selected display becomes blue.</li> </ul>
4 Click "Add" button.
<ul> <li>The groups or remote controller group names added to the list of "Schedule Operation Units" at the left-hand side of the screen are displayed.</li> </ul>
5 Click "OK" button.
The set contents are registered and "Schedule Setting" screen is opened.

# Notice

## Handling of group mixing:

Addition to Scheduled Operation Units list is possible.

- Combination of different single remote controller group (single A, single B)
- Single remote controller group and group (single A, groups A+B)
- Single remote controller group and group (single A, groups B+C)

Addition to Scheduled Operation Units list is impossible.

- Combination of same single remote controller group (single A, single A) (single C, single C)
- Combination of same groups (groups B+C, groups B+C)

# Note

To cancel the set contents, click "Cancel" button.

# Note



# Note

All the units and groups set in the group setting registered at the touch panel controller are listed in "Units List" displayed at step **3**.

# Note

When you want to register units in a group, expand the display by clicking the "+" button next to "Group Name".

 Remote Controller Group
 Group

 X
 X

 A
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# 3-4-8 Deleting group indoor units which operate on a schedule

Schedule	List		Scheduled Units Setting
On/ Off Sched	ule Name		Cafe
On scdina	ame1		Restroom 51
On scdina	ame5		Restroom M2
On scdina	ame11	V	
On scdina	ame4		Contrast Devolt Media Set Terr
On scdina	ame20		07:50 AM On Cool - 08:00 AM 26:0°C
On/Off	New Copy	t Up	11:00 AM 28.0°C
	Delete Rename	Down	Edit

#### Scheduled Units Setting



## Delete the units operated on a schedule from "Schedule List".

Click "Schedule Name" which you want to delete from "Schedule List".

Click "Edit" button on "Scheduled Units Setting"

- "Scheduled Units Setting" screen opens.
- 3 Select and click the group or remote controller group which you want to delete from "Scheduled Operation Units" list.
  - The selected display becomes blue.
  - Click "Delete" button.

Δ

- The groups or remote controller group on the list of "Scheduled Operation Units" are deleted.
- 5 Click "OK" button.
  - The set contents are registered and "Schedule Setting" screen is opened.

# 3-4-9 Setting a new operation pattern



Click "Schedule Name" whose pattern is to be set from "Schedule List".

- Click "Edit" button of "Current Schedule".
- "Calendar" screen opens.

## Notes

#### Setting procedure:

- ①Set the schedule operation pattern. (Maximum 8 kinds)
- → •Schedule Pattern Setting "3-4-10" •Operation Setting "3-4-10"
- ②Select the set schedule pattern from the 2 methods and set it as the custom day.
- $\rightarrow$  •Calendar setting "3-4-13"
  - •Custom setting "3-4-13"

Calendar (Calendar Setting)



3 Click "Edit" button.

"Schedule Pattern Setting" screen opens.

#### Schedule Pattern Setting



## Notes

**Setting example** ①: Operate at cooling 26°C at 8:00 AM and allow remote controller setting.

Time	08:00 AM	
Operation	On	
Mode	Cool	
Set Temp.	26.0°C	
R.C. Prohibition	All → 🖬	
Ø On/Off → 🔂	∎On → 🖬	
Mode → ਜ਼	I Temp → 🔂	
l Timer → 🗗	👿 Filter → 🔒	

**Setting example** (2): Change the set temperature only to 28°C at 3:00 PM.

Time	03:00 PM	
Operation	Hold	
Mode	Hold	
Set Temp.	28.0°C	
R.C. Prohibition	Hold	

- The following is described using an example which selected pattern [C].
- **4** Click "Schedule Pattern" which you want to set. Click Pattern [C].
- 5 Click "Add" button.
  - ◆ "Operation Setting" screen opens.

## Notes

- Perform the following settings:
- Setting items on "Operation Setting" screen
- **Operation start time or stop time**: What hour and what minute of AM or PM
- Operation setting: "ON", "OFF", and "Hold"
- ③**Operation mode**: "Auto", "Cool", "Dry", "Fan", "Heat", and "Hold\*"
- (4) Temperature setting:
- Heating: 10°C to 30°C

Otherwise: 18°C to 30°C, or "Hold\*"

- **5**Remote controller operation restrictions setting:
  - All functions, Operation "On", Operation "On/Off", "Set Temp.", Operation mode,

Timer prohibition (Timer prohibition of the standard remote controller), Filter alarm reset (Filter reset of the standard remote controller) "Hold\*"

When a setting other than Hold was selected, perform prohibit/allow setting for each function. However, when "All" was prohibited, other settings ("On/Off",

"On", "Mode", "Temp", "Timer", and "Filter") cannot be performed. When "On/Off" was prohibited, "On" setting cannot be performed. Therefore, when setting each function, allow "All" setting.

\*When "Hold" is selected, the state set when a schedule was executed is maintained.

# Note

Up to 20 items can be set per day in "Operation Setting".

# Notes

1 pattern is set from 00:00 to 23:59.

When you want to perform setting that spans the date, create a separate pattern or create by including a setting after 00:00.



At the end of setting, click "OK" button.

• "Schedule Pattern Setting" screen opens.

# 3-4-10 Changing an operation pattern



# 3-4-11 Deleting an operation pattern



# 3-4-12 Setting an operation pattern



## • Set by calendar.

Click "Calendar Setting" button.

Select the calendar of the year/month you want to set by clicking "Back" or "Next" button.

# Note

1

2

The lower limit of the selectable months shall be the current month and the upper limit shall be within 12 months including the current month.



Click "Schedule Pattern" you want to set.

4

Set when the day or day of week you want to set is clicked.

# Notes

Each time the date or day of week on "Calendar" screen is clicked, the setting is switched as shown below.



When "Custom Setting" is set, the display is switched as shown below.



#### Calendar (Calendar Setting)





#### Custom Setting



#### Calendar (Custom Setting)



Display Setting		Content	
А	Annual	Every year with selected sched- ule pattern is executed.	
(A)	1 Time	Only a set year with selected schedule pattern is executed.	
A	Custom Day (Annual)	Day set by "Custom Setting" executed each year.	
(A)	Custom Day (1 Time)	Day set by "Custom setting" executed only the set year.	
Blank	No Schedule	No Schedule	

## Set by specifying the date. (Custom setting)

Click "Custom Setting" button.

"Custom Setting" screen opens.

Click "Add" button on "Custom Setting List" selecting "Schedule Pattern" set.

## Notes

The following contents can be set at "Custom Setting" screen.

- (1)Year setting: Annual, only 1 year
- **(2)Month setting:** Every month, only 1 month.

(3) Day setting: Every day, only 1 day

- (4) Week setting: Every week, certain week
- **(5)Day of week setting**: Every week, every certain day
- 3

2

At the end of setting, click "OK" button.

 The set contents are executed and "Custom Setting" List" screen is opened.

## Note

The value set at "Custom Setting List" is displayed and the schedule pattern is displayed at the calendar.

Added to the Custom Setting List.

# Note

Up to 12 months from the current month can be displayed at the schedule calendar.

Past months cannot be set at custom setting. For the past dates of the current month, "1 time" cannot be set at custom setting, but "annual" can be set at custom setting. For example, the period from June 1 to September 5 of "annual" is set to cooling operation by custom setting at July 17 of the current year 2009. In this case, from June 1 to July 16 of this year is automatically ignored as past setting. Cooling operation is performed from July 17 to September 5. Then, from the next year, cooling operation is performed from June 1 to September 5 by "annual".

# 3-4-13 Changing the custom setting



# 3-4-14 Deleting the custom day



# 3-4-15 Changing the priority order of custom setting

Calendar (Calendar Setting)



#### Calendar (Custom Setting)



Click "Custom Setting" button.

"Custom Setting List" screen opens

Click the setting whose priority order is to be changed on the operation list set at "Custom Setting".

• Display of the name on the listed list becomes blue.

Move the operation list up and down using " Down" button or " Up" button.

# Note

1

2

For the priority order of the list, the upside is high priority and the bottom is low priority.

# Note

When the calendar setting (week, day) and custom setting (year, month, week) overlap, the priority order is as follows:

Priority order	Setting	Contents
1	Calendar setting	Day
2	Custom setting	All
3	Calendar setting	Week

# 3-4-16 Schedule Setting Example

#### Schedule Setting



 Describe the setting example following when the schedule shown below at Schedule 1 is set.

Mon-Fri	8:40~17:30 Working hours 12:00~13:00 Lunch hour 17:30~23:00 Overtime 23:00 Lockup	
Sat	Nonworking day	
Sun	Nonworking day	
Holiday (January 1) (2 <sup>nd</sup> Monday of October)	Nonworking day	
Custom day (4 <sup>th</sup> Friday)	8:40~17:30 Working hours 12:00~13:00 Lunch hour 17:30 Lockup	

#### 1. Schedule Pattern setting, Operation Pattern setting

#### Calendar (Calendar Setting)



## • Schedule pattern setting

Click "Edit" button of Schedule Pattern. Refer to par. "3-4-10" and perform Operation setting like that shown in the table below at schedule patterns A to H.

#### Schedule Pattern "A"

Time	On/Off	Mode	Temp	R.C. Prohibition
8:40	On	Cool	26°C	Hold
12:00	Hold	Hold	28°C	Hold
13:00	Hold	Hold	26°C	Hold
17:30	Hold	Hold	28°C	Hold
23:00	Off		°C	—

# Schedule Pattern "B"

Time	On/Off	Mode	Temp	R.C. Prohibition
8:40	On	Heat	24°C	Hold
12:00	Hold	Hold	22°C	Hold
13:00	Hold	Hold	24°C	Hold
17:30	Hold	Hold	22°C	Hold
23:00	Off	—	°C	—

#### Schedule Pattern "C"

Time	On/Off	Mode	Temp	R.C. Prohibition
8:40	On	Cool	26°C	Hold
12:00	Hold	Hold	28°C	Hold
13:00	Hold	Hold	26°C	Hold
17:30	Off		°C	—

# Schedule Pattern "D"

Time	On/Off	Mode	Temp	R.C. Prohibition
8:40	On	Heat	24°C	Hold
12:00	Hold	Hold	22°C	Hold
13:00	Hold	Hold	24°C	Hold
17:30	Off		°C	

## Schedule Pattern "H"

Time	On/Off	Mode	Temp	R.C. Prohibition
		No Settir	ng	

#### 2. Allocating schedule patterns

The set schedule patterns are allocated using 2 methods.

#### Calendar (Calendar Setting)



#### Calendar setting

Click "Calendar" button.

Each set schedule pattern is pasted as shown below.

Cale	endar	Pattern
Jun-Sep	Mon-Fri	Pattern "A
Oct-May	Mon-Fri	Pattern "B"
January 1	+ Sat, Sun	Pattern "H"

## Note

There is the following method of setting a schedule pattern at calendar setting.

 Setting is performed by clicking the days one by one for each month. (In the setting example, pattern A is set at each day from Mon to Fri from Jun to Sep and pattern B is set from Mon to Fri from Oct to May.)
 However, the priority is higher than setting by Custom Setting. Do not execute the calendar setting when you want to execute setting of Custom Setting.

#### Custom setting

3

4

Click "Custom Setting" button secondly.



Click "Add" button.

Refer to par. "3-4-14" and perform the setting like that shown below.

Items	Pattern	Annual/1 Time	Month	Week	Day of week
Setting	С	Annual	Monthly	Week-4 <sup>th</sup> .week	Day -Fri
Items	Pattern	Annual/1 Time	Month	Week	Day of week
Setting	D	Annual	Monthly	Week-4 <sup>th</sup> .week	Day -Fri
Items	Pattern	Annual/1 Time	Month	Week	Day of week
Setting	н	Annual	Month-10	Week-2 <sup>nd</sup> .week	Day -Mon

(Example) For summer, set the C pattern to the high order and for winter, set the D pattern to the high order.

# Notes

The above is the schedule setting method.

In the setting example, the schedule patterns were allocated by 2 methods, but setting is possible by either allocation.



# 3-5-1 Main screens of Password Setting

#### **Password Setting**



#### User Setting / History Password Verification



# 3-5-2 Managing the user setting access right



- Open "Password Setting" screen from "Monitor Mode" screen.
  - Click "Setting" button.
- "User Setting/History" menu screen opens.

## Note

1

There are 3 menu patterns of "System Setting", "Preference", and "History" at "User Setting/History" screen.

#### User Setting / History



#### System Setting



#### Password Setting



#### User Setting / History Password Verification



#### Password Setting



Click "System Setting" button. 2

"System Setting" menu screen opens

## Note

There are 6 menu patterns of "Date / Time Setting", "Group Setting", "Schedule Setting", "Password Setting", "Installer Setting" and "Language Setting" at "System Setting" screen.

- 3
  - Click "Password Setting" button.
  - "Password Setting" screen opens.
- Click "Change Setting" button on User Setting / History Δ Password.
  - "Key Board (Password Verification)" screen opens.

## Note

The setting contents of the 3 items "All", "Schedule Setting" and "Group Setting" are displayed on "Password Setting" screen.

## Note

There are 3 settings for which a password (Installer Setting Password, User Setting/History Password, and Operation Setting Password) is requested.

Enter the password at "User Setting / History Pass-5 word".

## Note

"VRFVRF" is set as the default password.

- Click "OK" button. 6
  - "Change Password Setting" screen opens
  - Click "Do Not Require" button or "Require" button at each setting item on "Change Password Setting" screen.
- At the end of setting, click "OK" button. 8
  - The set contents are determined and the display returns to "Password Input" screen.

## Note

If a setting item on "Change Password Setting" screen is set to "Require", password input is necessary to access that item.

# Notes

Passwords can be set in the following 4 patterns at Password Setting.

- 1. ALL ----- All\*1 (User Setting / History)
- 2. Schedule Setting + Group Setting
- 3. Schedule Setting
- 4. Group Setting



- For the password setting configuration in the touch panel controller, see par. 5 "password configuration" in "En-9"
- \*1 If "ALL" is set to "Require" at "User Setting / History Password", password input is required to transfer "Monitor Mode" to "User Setting" or "Schedule Setting".

# 3-5-3 Changing a user setting password



User Setting / History Password Verification



Enter the same password at step 4 again.

Click "OK" button.

- "Password Setting" screen opens.
- At the end of setting change, click "Close" button.
  - The set contents are determined and "System Setting" screen opens.

# Notes

6

7

If you forget the password after password setting was performed, subsequent "User Setting" will be impossible. Make a note of the password so as not to forget the password. If you forgot a password, contact you local dealer.

# 3-5-4 Managing the access right of operation control setting

#### Password Setting



#### Operation Setting Password Verification



## Click "Change Setting" of "Operation Setting Password".

 "Operation Setting Password Verification" screen opens.

## Note

1

Invalid is set as the default.

## Note

Set a different password for "Installer Setting Password", "User Setting/History Password", and "Operation Setting Password".

2 Key in the password of "Operation Setting Password".

# Note

"VRFVRF" is set as the default password.

- 3 Click "OK" button.
  - "Password Setting (Operation Setting)" screen opens.
- Password Setting 0101/2009 Thui 12 00 AM Status: Off
  Operation Setting
  Do Not Require
- Click "Do Not Require" button or "Require" button on "Operation Setting Password".
- 5 At the end of setting, click "OK" button.
  - The set contents are determined and "Password Setting" screen opens.

# Note

Δ

If a setting item on "Password Setting (Operation Setting)" screen is set to "Require", password input is necessary to access "Operation Setting" screen.

# Note

Operation Setting Password is requested when "Operation", "On", or "Off" button in the Monitor Mode was clicked. It is not requested for 10 minutes after authentication. When these buttons are clicked after 10 minutes or more have elapsed after authentication, password is requested again.

# Password Setting (Operation Setting)

# 3-5-5 Changing an operation setting password



# **3-6 Installer setting**

# 3-6-1 Main screens of Installer Setting

#### Installer Setting

🖉 Installer Setting			009 Wed. 06:44 PM Status: Off	
1. Touch Panel Cont	roller Address Se	aning	When connecting multiple	
Address	00	Change	addresses.	"Change" button
2. Indoor Unit Regist	ration	*	Province Review American Street	
	No Registration	Register	Controlled by this controller.	"Register" button
3. Function Setting		-		
External input Setting	Not Used	Change	Select mode when external imput used.	"Change" button
Temperature Setting	No Restrictions	Change	Sets the set temperature units and width.	"Change" button
R/C Prohibition Setting	No Restrictions	Change		"Change" button
Change Password	******	Change	Error End	"End" button
				"Error History" button "Change" button

## Installer Setting (Touch Panel Controller Address Setting)



## Installer Setting (Indoor Unit Registration)

Z Installer Setting	07/01/2009 Wed. 06:44 PM	Status: Off	
2. Indoor Unit Registration			
Select the registration method.			
Register the address number from	small ones.	Select	"Select" button
Register by operation order.		Select	"Select" button
Register by manual setting.		Select	"Select" button
Register by importing external data	L.	Select	"Select" button
Export registerd data to external m	етолу.	Select	"Select" button
		Close	"Close" button

## Installer Setting (Function Setting/External Input Setting)



## Installer Setting (Function Setting/Temperature Setting)



## Installer Setting (Function Setting/R.C. Prohibition Setting)



# 3-6-2 Installer setting

Installer Setting Password Verification	• A password is set to prevent inadvertent opera-
Installer Setting Password Verification Enter current password.	tion.
	1 Enter the password at "Installer Setting Password".
1 2 3 4 5 6 7 8 9 0	Note
ZXCVBNM	"VRFVRF" is set as the default password.
	Click "OK" button
Cancel OK Z	
	<ul> <li>"Installer Setting" screen opens.</li> </ul>
	Note
	If the password is changed, see par. "3-6-17".

# 3-6-3 Setting the address of the touch panel controller main unit

1



Installer Setting (Touch Panel Controller Address Setting)



Click "Change" button on "Touch panel controller address setting".

 "Touch Panel Controller Address Setting" screen opens.

# Notice

When 2 or more controllers\* are installed in the system, set the address numbers so that the controller addresses (numbers) are not duplicated.

\*Touch Panel Controller, Network Convertor(Group Remote Controller).

2 Select "Address" from 00 to 15 on the screen and click the button.

- **3** At the end of setting, click "OK" button.
  - "Installer Setting" screen opens.

# 3-6-4 Registering the indoor units

# Installer Setting Installer Se

#### Installer Setting (Indoor Unit Registration)

Z Installer Setting	07/01/2009 Wed. 06:44 PM	Status: Off
2. Indoor Unit Registration		
Select the registration method.		
Register the address number from s	mall ones.	Select
Register by operation order.		Select
Register by minutal setting,		Select
Register by importing external data.		Select
Export registerd data to external me	телу.	Select
		Close

## • Indoor unit registration:

 Perform indoor unit registration after 5 minutes or more have elapsed after the indoor unit and outdoor unit power was turned on.

Click "Register" button of "Indoor Unit Registration".

"Indoor Unit Registration" screen opens.

# Notice

Indoor unit registration and deletion may affect the group setting and schedule setting.

Always confirm after the end of setting when group setting and schedule setting have already been performed.

# Notes

See the table below for the items which can be selected.

Items	Contents
Register the address number from small ones. 3-6-5	Units are automatically registered in ascending order of refrigerant system address.
Register by operation order. 3-6-6	Units are registered in the order in which the indoor units were operated.
Register by manual setting. 3-6-7, 3-6-8, 3-6-9	The units with the specified address are registered. Or deleted.
Register by importing external data. 3-6-10	The indoor units registration data is imported from an external memory.
Export registered data to external memory. 3-6-11	The indoor units registration data is exported to an external memory.

# 3-6-5 Registering indoor units in refrigerant system address order

1

Installer Setting (Indoor Unit Registration)





## Indoor units are registered in ascending address order.

Click "Select" button.

 "Address Order Registration Confirmation" screen opens.

# Notice

Note that when address order registration is performed the current registered indoor units, group setting, schedule setting data (unit setting) and history (abnormality and operation of the outdoor units and indoor units) are deleted.

2 Click "OK" button.

• "Registration of indoor unit is progressing" screen opens.

Now, r	egistration of indoor unit is progress	ing
_		
-		
	Cancol	

Installer Setting (Indoor Unit Registration)

					or Unit Registration	2. Indo
jistration Start	Regi			se ).	I registration. press the [ Clo	To end
Add	1	Rc.	ss In.	Addre Ref.	roup (Indoor Unit) Name	R.C.G No,
		00	00	00	RC.Group001	001
Del	*	00	02	00	RC,Group002	002
3	7	00	03	00	RC.Group003	003
						004
1.00	Ŧ					

# Notes

## System abnormality

 When registration is successful; "Indoor Unit Registration List" screen opens.

# Notice

When there is an abnormality in the system, an error screen is displayed and registration is stopped.

Abnormality contents	Cause
No outdoor unit	No outdoor unit of the same refrigerant system address as indoor unit.
No indoor unit	Not even 1 indoor unit at the same refrigerant system address as outdoor unit.
There is an abnormality in communications.	Cannot communicate. There is not even 1 unit.
There is an abnormality in unit setting.	There is an abnormality in unit data setting.
There is an abnormality in RCG address.	There is an abnormality in RCG address setting.
No master unit at outdoor units.	There is no master unit at the outdoor units.
Initializing	Cannot be executed because initializing at other unit.
Specified indoor unit does not exist.	There is no specified indoor unit data.

# 3-6-6 Registering indoor units in operation order

#### Installer Setting (Indoor Unit Registration)



Click "Select" button.

"Indoor Unit Registration" list screen opens.

## Note

1

The "Installer Setting (Indoor Unit Registration)" screen is the same as the "Installer Setting (Indoor Unit Registration) Addition/Deletion" screen which is opened when the "Select" button was clicked at step **1** of 3-6-8.

2 Select the list of the remote controller group No. from which registration is to begin.

When starting new registration, select No. 001.

Register by operation order



Scanning



#### Installer Setting (Indoor Unit Registration)

Run th	e RCG to be registered. Waiti	ng for RCG No.0	05 regist	ation.	Regist	ation
R C.C	roup (Indoor Unit) Name	Addre Ref.	ss In,	Rc.	t t	Auto
101	RC(Group(0))	00	00	00	3	=
202	RC.Group002	00	01	200		12(1)
03	RU(Drogot03	00	02	00-	-	2
1014	PO:Group600	- 00 .	. 03-	00		
05			1.00			Jaum

Confirmation Screen



#### Installer Setting (Indoor Unit Registration)

To end registration, press the [ Close ].					Registration Start	
R.C.G	roup (Indoor Unit)	Addre	ess in.	Rc.	1	Add
001	RC.Group001	00	00	00	18	
002	RC.Group002	00	02	00		Del
003	RC.Group003	00	03	00		1
004			1	-		Op
					Ť	Dowr

# Notes

When changing the indoor unit registration configuration already registered, select the indoor unit you want to change.

The selected indoor unit and indoor units registered after it are deleted.

- **3** Click "Registration Start" button.
  - "Register by operation order" screen opens.
- Click "OK" button.
  - "Performing system check" screen opens.
  - At the orderly end of system confirmation, open "Indoor Unit Registration" list screen (operation wait state).

## Notice

When there is an abnormality in the system, an error screen is displayed and registration is stopped. See the items of 3-6-5.

- Operation of the indoor unit begins (On) in the order you want to register.
  - "Indoor Unit Registration" List screen opens
  - The remote controller groups in the order in which they were started are displayed on "Indoor Unit Registration List" screen.

5 At the end of "Register by operation order", click "Registration End" button.



- Click "Close" button to determine the set contents.
- "Installer Setting" screen opens.

# Note

Registration is possible even when shifted from an operation other than operation registration.

#### Changing the registered indoor units sequence 3-6-7

Installer Setting (Indoor Unit Registration) Addition/Deletion



- When you want to change the indoor unit sequence, click the relevant indoor unit.
- Display of the selected names becomes blue.
- Scroll using "Up" and "Down" buttons.

At the end, click "Close" button.

"Installer Setting" screen opens.

## Notice

1

3

1

2

When setting a remote controller group, only the master indoor unit can be selected. Slave units always shift as a set with the master unit.

# 3-6-8 Adding indoor unit registration

Installer Setting (Indoor Unit Registration) 07/01/2009 Wed. 06:44 PM Status: Off Indoor Unit Registration Select the registration meth Select Select Select Select Select Close

1

Status: Off E Installer Setting 2 Z. Indoor Unit Registration To end registration, press the [ C Registration Start 3 Add 1 001 RC.Group001 00 00 00 Del . 1 Up 003 RC.Group003 00 03 00 T 004 Down Ŧ Close

Installer Setting (Indoor Unit Registration) Addition/Deletion

Click "Select" button of "Register by manual setting".

"Indoor Unit Registration (Add/Delete)" screen opens.

Select the list of remote controller group No. at which addition of registration is to be started.

# Note

The "Installer Setting (Indoor Unit Registration) Addition/ Deletion" screen is the same as the "Installer Setting (Indoor Unit Registration)" screen which is opened when the "Select" button was clicked at step 1 of 3-6-6.



Click "Add" button.

"Add Indoor Unit" screen opens.



# Notice

5

6

When there is a slave (Rc. Address 01 or higher) in an R.C. Group, register only the master unit (Rc. Address 00). When the master unit is registered the slave indoor unit is automatically registered.



Click "Add" button.

- The registered indoor units are displayed at "Registration List".
- When an indoor unit on "Registration List" is selected and "Delete" button is clicked, the selected indoor unit is deleted.
- At the end, click "OK" button.
- When "Indoor Unit Registering" screen opens and registration ends normally, "Indoor Unit Registration (Add/ Delete)" screen opens.

# Notice

When there is an abnormality in the system, an error screen is displayed and registration is stopped. See the items of 3-6-5.

#### **Deleting registered indoor units** 3-6-9

#### Installer Setting (Indoor Unit Registration) Click "Select" button of "Register by manual setting". 07/01/2009 Wed. 06:44 PM Status: Off Indoor Unit Registration "Indoor Unit Registration (Add/Delete)" screen opens. Select Select Click the remote controller group name you want to 2 1 delete. Select Select The selected remote controller group name is selected Select and the display becomes blue. Close Click "Del" button. 3 Installer Setting (Indoor Unit Registration) Addition/Deletion "Delete Confirmation" screen opens. E Installer Setting 2 At the end, click "OK" button. oor Unit Registration on, press the I C • The selected remote controller group is deleted. Add 1 001 RC Group001 00 00 3 Del Note . 003 RC.Group003 00 03 00 Up T Deletion is possible even when shifted from an operation 104 Don other than "Register by manual setting". Ŧ 4 Close

Installer Setting (Add Indoor Unit)
## 3-6-10 Registering indoor units by external input data



## 3-6-11 Exporting indoor unit registration data



Exporting Data



"Exporting to external memory is complete."



• Connect the USB memory to which the indoor unit registration data is to be stored to the terminal.

1 Click "Select" button of "Export registered data to external memory".

- The message "Exporting data" appears on the screen.
- At the end of exporting, the message screen disappears.
- "Exporting to external memory is complete." screen opens.

- Click "Close" button.
- Pull out the USB memory from the terminal.

### Notice

The data is saved under the following name in the USB directory. In + date + time Example: In0901011200 2009/01/01/12:00

## 3-6-12 Editing the system configuration file of the touch panel controller by PC

- Create a indoor unit register file by PC and register it at the touch panel controller.
- Use the "File Making Sheet" by copying it from the CD-ROM supplied.
- When correcting the touch panel controller registration data; see par. 3-6-10.



Open "System Form File Making Sheet" file.
 Click "System Form" sheet tab.

• Connect the USB memory containing "Indoor unit registration data" to the PC.

Click "Import Data" button.

• Select the file to be imported at "System Form" sheet.

### Note

Display of the screen at file selection is different depending on the operation software.

• Data is imported at "System Form" sheet.

### Note

When generating new data from the PC, register it directly to the file making sheet.

• A system composition file is newly created from the PC and is registered to the touch panel controller.

### Notice

When editing at the file making sheet and importing the data to the touch panel controller, pay attention to the following points.

Since the registered indoor unit data is overwritten and the following data are changed when data is imported, always confirm the data after setting.

- Group setting data
- · Schedule data (unit setting)
- History (outdoor unit and indoor unit errors and operation)

Edit the contents of "RCG No.", "Refrigerant Circuit Address", "Indoor Unit Address", and "Remote Controller Address".



Notes						
Contents which can be set						
RCG No. (Remote Controller Group No.)	Select and enter the remote controller group by consecutive No. from 1. However, make the same remote controller group the same number. (However, RCG No.:1 cannot be changed.)					
Refrigerant Circuit Address	Enter the refrigerant system address (0-99).					
Unit Address	Enter the indoor unit address (0-63).					
Remote Controller Address	Enter the remote controller address (0-15). Input sequentially beginning from 0.					

## Notes



### Note

When the address sequence must be changed, "Sort" button on "System Form" sheet can be used.

### Note: Only half-size characters can be input.

### • At the end of all editing, save the file.



### Notes

When "Sort" / "Export Data" button was clicked and there is an error in the entered address, it is automatically checked and an error is generated. If there are no errors, the file is output.

Error message	Problem point		
Entered data error. RCG No. is a value other than blank or	RCG No. is blank or a value other than 1-400		
1-400. Enter correct data.			
Entered data error. Refrigerant Circuit Address is a value other	·Refrigerant Circuit Address is blank or a value other than		
than blank or 0-99. Enter correct data.	0-99.		
Entered data error. Indoor Unit Address is a value other than	Indoor Unit Address is blank or a value other than 0.63		
blank or 0-63. Enter correct data.	Indoor Unit Address is blank of a value other than 0-63.		
Entered data error. Remote Controller Address is a value other	·Remote Controller Address is blank or a value other than		
than blank or 0-15. Enter correct data.	0-15.		
Entered data error. RCG No. is not sequential. Enter correct data.	·RCG No. is not consecutive.		
Entered data error. Remote Controller Address of master unit is	Master Remote Controller Address is not 0		
not 0. Enter correct data.	Master Remote Controller Address is not 0.		
Entered data error. Remote Controller Address of slave units is	Slave Remote Controller Address is not consecutive		
not sequential. Enter correct data	Slave Remote Controller Address is not consecutive.		
Entered data error. Remote Controller Address of slave units is	Slave Pofrigerant Circuit Address is incorrect		
incorrect. Enter correct data.			
Entered data error. Address is duplicated. Enter correct data.	·Address is duplicated.		



### 3-6-13 Setting the external input signal

### Installer Setting 07/01/2009 Wed. 05:44 PM Status: Off Change No Registration Register 1 Not Used Change No Restrictions Change Not Used Change Change Erro

- Set the external input signal.
  - Click "Change" button on "External Input Setting".
- "External Input Setting" screen opens.

### Setting which emergency-stops the system by external input signal



### Click "Emergency Stop" button.

Click "Edge" or "Pulse" button, depending on the type of

The set contents are entered and "Installer Setting"

## Setting which turns the system "All On/All Off" by external input signal



Click "All On/All Off" button.

Click "Edge" or "Pulse" button, depending on the type of signal to be input.

Click "OK" button.

The set contents are entered and "Installer Setting" screen is opened.

### Disabling operation setting by external input signal

Installer Setting (Function Setting/External Input Setting)



### Click "Not Used" button.

Click "OK" button.

 The set contents are entered and "Installer Setting" screen is opened.

### 3-6-14 Setting the temperature display unit

Installer Setting			09 Wed. 06:44 PM Status: Off		
			When connecting multiple		
	00	Change	controllers, set their addresses.		
			Acres in the second		
	No Registration	Register	controlled by this controller.		
E metrica Contrare		- <b>v</b>			
External Input Setting	Not Used	Change	Select mode when external input used.		
Temperature Seming	No Restrictions	Change	5 the set imperature units as weth:		
R.C. Prohibition Setting	Not Used	Change	Lock remote control operation.		
		Change	Error		

- This function limits the width over which the temperature can be set from touch panel controller to indoor unit.
  - Click "Change" button of "Temperature Setting".
  - "Temperature Setting" screen opens.

### Setting the temperature display unit



### 3-6-15 Setting the settable temperature range

### Installer Setting

			When connecting multiple		
	00	Change	controllers, set their addresses.		
Indoor Unit Regist		*	Annal Annal Annal		
	No Registration	Register	Controlled by this controller.		
Function Settion		- <b>x</b>			
External Input Setting	Not Used	Change	Select mode when external input used.		
emperature- eming	No Restrictions	Change	ns the Aet formperature units		
R.C. Prohibition Setting	Not Used	Change	Lock remote control operation		
		Change	Error		

- This function limits the width over which the temperature can be set from touch panel controller to indoor unit.
- Click "Change" button of "Temperature Setting".
- "Temperature Setting" screen opens.

### Setting the settable temperature range



# • Makes the width the all operation modes same settable temperature range.

Click "All Mode" button of "Temperature Range".

Select the low limit temperature and high limit temperature by clicking " $\nabla$ " button.

Click "OK" button.

 The set contents are entered and "Installer Setting" screen is opened.

## Notes

 See the table at the right for the temperature ranges which can be set.
 Set temperature high and low limit values

(The temperature cannot be set above the high value or below the low value.)

Temperature unit	Celsius	Fahrenheit
Set temperature (Auto, Cool, Dry)	18 - 30°C	64 - 88°F
Set temperature (Heat)	10 - 30°C	48 - 88°F

## Notes

• Set the upper and lower limit temperatures settings performed in the touch panel controller.

3

- \*The upper and lower limit temperatures settings from the Standard Remote Controllers are not restricted.
  See par. "3-3-3" for setting the upper and lower limit temperatures settings to the registered
- indoor unit.

### Setting the settable temperature range for each operation mode



- Set the settable temperature range for each operation mode.
- Set the temperature of "Auto", "Cool/Dry", and "Heat" operation modes of "Individual Mode".
  - Click "Individual Mode" button of "Temperature Range".
  - Select "Lower Limit" and "Upper Limit" by clicking the " $\nabla$ " button for each operation mode.
  - Click "OK" button.
  - The set contents are determined and "Installer Setting" screen is opened.

### Disabling settable temperature range setting

Installer Setting (Function Setting/Temperature Setting)



- Disabling settable temperature range setting.
  - Click "No Limitation" button.
    - Click "OK" button.
  - The set contents are determined and "Installer Setting" screen is opened.

### 3-6-16 Setting the remote controller operation prohibition



Control Unit :	Meeting Roo	m	$\nabla$	R.C. Prohibi			
	Mode	Sel Temp	Fan	AD AN	₿	6	]
On	Auto	24.0 °C	Auto	M On/Off	Э	₿	J
Ott	Cool		High	1 On	æ	6	J
Air Flow Dispetion	Dry		Med	18 Mode	a	0	
	Fan		Low	👗 Tempi	⊞	8	
Filter Sign Test Operation	Heat		Quiet	O Timer	a	6	j
Optional Setting	Operation Controlled			🛛 Filter	æ	8	1

### **Operation Setting (Schedule)**



### Note

When prohibit setting was set to disable ("Not Used"), the remote controller operation restricted button of "Operation Setting" screen is not displayed on the screen.

When "Not Used" was set, the remote controller operation restricted button of "Operation Setting" screen is not displayed on the screen.

## 3-6-17 Changing the installer setting password



# Chapter 4 PREFERENCE SETTING

## **4-1 Preference Setting**

## 4-1-1 Main screens of preference setting

### Panel Calibration



### **Backlight Setting**

器 Backlight Setting		Thu. 12:00 AM Status: Off	1
Automatic Off Time	Automatic lighting ON (On error)	Brightness	
			"Enable" button
	Enable		"Brightness" button
			"Disable" button
			"Automatic Off Time" buttor
Cancel		ОК	"OK" button
			"Cancel" button

### Sound Setting



### Panel Cleaning (Left Side)



Panel Cleaning (Right Side)

Z Panel Cleaning	01/01/2009 Thu. 12:00 AM Status: Off
After cleaning the right half, press [Close]	
Close	
	"Close" button

## 4-1-2 Adjusting touch panel position offset

### User Setting/History

Panel Calibration

Sound Setting



Panel Cleaning

Close

2

There are 4 items on "Preference" screen: "Panel Calibration", "Backlight Setting", "Sound Setting", and "Panel Cleaning".

Click "Panel Calibration" button.

"Panel Calibration" screen opens.

Panel Calibration



Panel Calibration (Confirmation)



To start calibration, click "Start" button.

4 Click the 5 points each 1 sec or longer in accordance with the instructions on the screen using the touch pen in accordance with the message on the screen.

 When 5 points are clicked, the screen is changed to "Panel Calibration (Confirmation)" screen.

**5** Click 5 points in accordance with the instructions on the screen using the touch pen.

• At the end of Calibration, "Preference" screen opens.

### Note

3

When Calibration fails, the display returns to "Panel Calibration" screen of step **4**. Repeat this until correct Calibration is performed.

## 4-1-3 Setting automatic lights-out time of backlight



## 4-1-4 Setting automatic backlighting on when an error occurs



### 4-1-5 Setting backlighting brightness



## 4-1-6 Setting the beep sound of operation confirmation



### 4-1-7 Setting the beep sound of error alarm

# Preference Protoronce Panel Calibration Backlight Setting Bound Setting Close

Click "Sound Setting" button.

• "Sound Setting" screen opens.

Sound Setting



**2** To output an error alarm sound, click "Enable" button of "Error Alarm Sound".

To not output an error alarm sound, click "Disable" button.

### Note

When set to Enable, a beep sound is output when an error occurs even if "Operation Sound" was set to Disable. The error alarm beep sound is output until there is no more error or the screen is touched.

3 At the end of setting change, click "OK" button.

• "Preference" screen opens.

## 4-1-8 Wiping clean the touch panel surface



# Chapter 5 HISTORY

## 5-1 History Display

## 5-1-1 Main screens of history setting

### Error History



### Status History

😹 Status History		03/2007 THU, 02:20 PM	Giaius	-	Remote Controller Group screen scroll (up/
R.C. Group	History down		down) button		
No. Name	🛔 Date Ti	me On Mode Set	<sub>n</sub> Fan	1	
000 Office A Nor	24/02/2007 08	:00 AM On Cool 26°C	High		
001 Office A Cen	A 24/02/2007 08	:00 AM On Cool 26°C	High		
002 Office A Sou	24/02/2007 08	:00 AM On Cool 26°C	High		History screen scroll (up/ down) button
003 Office B Nor	24/02/2007 08	:00 AM On Cool 26°C	High		
004 Offee B Cen	\$ 24/02/2007 08	:00 AM On Cool 26°C	High	¥	
005 WWWWWWWW	24/02/2007 08	:00 AM On Cool 26 C	High		
006 www.www.ww	24/02/2007 08	:00 AM On Cool 26°C :00 AM On Cool 26°C	High		History display screen
	Erase All Ex	port Data	Clo	se	"Close" button
			_		"Export Data" button
					"Erase All" button
					Remote Controller Group display screen

### **Operation History**



### 5-1-2 Displaying error history



### Note

There are 4 buttons on "History" screen: "Error History", "Status History", "Operation History", and "Version".

History



Error History



Click "Error History" button.

- "Error History" screen opens.
- "Error History" of each indoor unit, outdoor unit, and touch panel body is displayed.

### Note

3

The refrigerant system address, indoor unit address, remote controller address, error generation date/time and error code up to the last 10 errors are displayed for each indoor unit.



"History" screen opens.

## 5-1-3 Exporting error history data to the external memory

### Error History

Name / Model No.	Address Ref.In.Rc	EH /0	for Cose 1 ute And Time	En /D	of Code 2 ate And Time	67/10	for Code 3 Nate And Time	En /U	ror Code 4. Jate And Time	t
Meeting RoomA	08.00.00	04	15/10/2007 08:23 AM	01	15/10/2007 08:23 AM	04	15/10/2007 08:23 AM	04	15/10/2007 08:23 AM	
Meeting RoomB	08-01-00	04	03/10/2007 02:22 AM	04	03/10/2007 02:22 AM	04	03/10/2007 02:22 AM	04	03/10/2007 02:22 AM	
Meeting RoomC	08-02-00	04	10/09/2007 09:39 AM	04	10/09/2007 09:39 AM	04	10/09/2007 09:39 AM	04	10/09/2007 09:39 AM	
OfficeA AUYU25****	08-03-00	04	24/06/2007 11:55 PM	04	24/06/2007 11:55 PM	04	24/06/2007 11:55 PM	04	24/06/2007 11:55 PM	H
OfficeB AUYU25****	08-04-00	04	24/06/2007 04:09 PM	01	24/06/2007 04:09 PM	04	24/06/2007 04:09 PM	01	24/06/2007 04:09 PM	
OfficeC AUYU25****	08-05-00	04	11/06/2007 02:01 AM	04	11/06/200 02:01 AM	-	11/08/2007 02:01 AM	104	11/08/2007 02:01 AM	
	08-06-00	04	24/06/2007 12:33 PM	04	24/06/20 12:33 PM	04	24/06/2007 12:33 PM	04	24/06/2007 12:33 PM	
Curent Error						•			-	

### Exporting Data Screen



Exporting to External Memory is complete



- Connect a USB memory to the external memory terminal.
- Click "Export Data" button.
- "Exporting data" screen opens.
- "Exporting to external memory is complete" screen opens.
- File exporting ends.

### Notice

The file is saved under the following name in the USB memory directory. Er + date + time

Click "Close" button.

- "Error History" screen opens.
- Disconnect the USB memory from the external memory terminal.
  - Click "Close" button.

3

"History" screen opens.

## 5-1-4 Deleting all error history data



## 5-1-6 Exporting status history data to the external memory



## 5-1-8 Displaying operation history



## 5-1-9 Exporting operation history data to the external memory

1

3



Exporting to External Memory is complete



Exporting Complete Screen



- Connect a USB memory to the external memory terminal.
- Click "Export Data" button.
- "Exporting data" screen opens.
- "Exporting to external memory is complete" screen opens.
- File exporting ends.

## Notice

The file is saved under the following name in the USB memory directory. Op + date + time

- Click "Close" button.
- "Operation History" screen opens.
- Disconnect the USB memory from the external memory terminal.
  - Click "Close" button.
- "History" screen opens.

## 5-1-10 Deleting all operation history data



### 5-1-11 Displaying version information

### History Click "Version" button. 07/01/2009 Wed. 11:15 PM Status: Off 1 "Version" screen opens. Check the touch panel controller software version • Error History Status History contents. Note 1 Coperation History Version The touch panel controller software version information can be checked at "Version" screen. Export All Close Confirmation ends. Version Click "Close" button. 2 01/03/2007 Thu: 02:20 PM Status "History" screen opens. Body Ver E02124V03L02 Close 2

# Chapter 6 OTHERS

## 6-1 Outline dimensions



54 (2-1/8)

0

0





## 6-2 Specifications

Model name	UTY-DTG*				
Power source voltage	1 ø AC100 - 240 V				
Power source frequency	50 / 60 Hz				
Power consumption	22W				
Display	7.5-inch TFT color LCD display (640 x 480 pixels), with Touch panel				
LED indicator	Power LED (Green)				
	USB 2.0				
	Transmission				
External interface	EXT IN: (Either emergency stop or batch operation/stop) (Either no-voltage contacts or voltage contacts can be selected)				
	EXT OUT: (Operation state, error state)				
	Reset SW				
Usage temperature range °C (°F)	0 to 40 (32 to 104)				
Usage humidity range (%)	0 to 85 (no condensation)				
Storage temperature range °C (°F)	-20 to 70 (-4 to 158)				
Storage humidity range (%)	0 to 85 (no condensation)				
Dimensions [H x W x D] mm (in.)	260 x 246 x 54 (10-1/4 x 9-11/16 x 2-1/8)				
Weight g (oz.)	2150 (76)				

\* The liquid crystal panel is manufactured using high precision technology, but there may be 0.01% or less mixing pixels or continuously lighted pixels. This is not a trouble.

## 6-3 Error code

•For the details or the indoor unit or outdoor unit error when checking the error contents, refer to the error codes in each installation manual.

Error code	Contents
161	Transmission PCB connection error
163	LAN communication error
164	Peripheral device network communication error
C11	Main PCB error
C21	Transmission PCB error
C31	PCB 1 error
C81	Input device error
CF1	External connector error (USB memory)