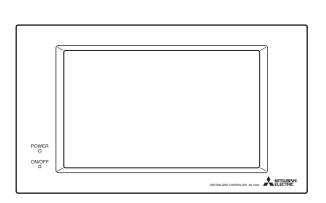


## Mitsubishi Electric Air-conditioner Network System

## Centralized Controller Model: AG-150A

## **Instruction Book**



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Before using the controller, please read this Instruction Book carefully to ensure proper operation. Keep this manual for future reference.

### 1. Safety precautions

Before using the controller, read the Safety Precautions section carefully to ensure proper operation. These safety precautions must be observed by anyone who operates the centralized controller at all times. Keep this Instruction Book and Installation Manual for future reference. Make sure both this Instruction Book and the Installation Manual are given to the next user.

This symbol indicates that failure to follow the instructions exactly as stated poses the risk of serious injury of death.
This symbol indicates that failure to follow the instructions exactly as stated poses the risk of injury or damage to the controller.

## 

Have the unit professionally installed.

Improper installation by an unqualified person may result in a risk of electric shock or fire.

Make sure the controller is securely mounted so that it will not fall.

Make sure that the controller is connected to a properly rated power supply to avoid fire or damage to the controller.

If any abnormality is noticed (e.g., burning smell), stop the operation, turn off the power supply, and contact your dealer or technical representative immediately. Continuing the operation may result in damage to the controller, electric shock, or fire. Ask your dealer or an authorized technician to move the controller.

Improper installation may result in electric shock or fire or damage to the controller.

**Controllers must be disposed of properly.** Contact your dealer for proper disposal procedures.

**Do not attempt to modify or repair the controller.** Modification or improper repair may result in electric shock or fire. Consult your dealer when repairs are necessary.

Stop the operation immediately and notify your dealer if an error code is displayed and the controller does not operate, or when any abnormality is noticed. Continuing the operation may result in damage to the controller or fire.

# 

## Do not install the controller where there is a risk of leakage of flammable gas.

If the leaked gas accumulates around the controller, it may be ignited and result in an explosion.

#### Do not wet the controller.

Water may damage the controller and cause an electric shock.

**Do not use the controller for specialized applications.** This product is designed exclusively for use with the MITSUBISHI ELECTRIC building air conditioning control system. The use of this product with other air-conditioning management systems or for other purposes may result in malfunctions.

### Do not spray insect sprays or sprays with flammable propellants to the controller.

To avoid the risk of fire or explosion, do not place flammable sprays near the controller or spray them directly on the controller. To reduce the risk or electric shock and malfunctions, do not operate the touch panel with wet hands.

Do not use the controller in an environment high in oil, steam, or sulfuric gas.

These substances may have adverse effects on the performance of the controller of damage its parts.

To reduce the risk of electric shock or malfunctions, do not use a pointy or sharp object to operate the touch panel.

## Operate the controller within the temperature range specification.

The use of controller outside of its specification may result in serious damage to the controller. Be sure to check the temperature range specification in the Instruction Book.

# Use a security device such as a VPN router when connecting the AG-150A to the Internet to prevent unauthorized access.

If no security devices are installed, the operation settings may be changed by an unauthorized person without the knowledge of the user.

### 2. Product features

The controller described in this manual is a centralized controller that can be operated over the Web. Air conditioning units connected to this controller can be operated or monitored directly from this controller or over the Web, using a browser software on the computer.

Refer to the Web browser operation manual (separate volume) for how to use the Web functions.

		Function	Description				
		Indoor unit or independent OA processing unit or LOSSNAY	Up to 50 units are connectable (including the interlocked units) *2				
		Number of units in one group (indoor or independent OA processing unit or LOSSNAY)	1-16 units (Indoor unit, independent OA processing unit and LOSSNAY can not register to the same group.)				
	Number of	Number of remote controllers in one group	1-2				
		Number of system controllers in one group	0-4 (including the number of remote controller in one group)				
		Number of interlocked units	<ul> <li>Number of LOSSNAY units (interlocked unit) that can be interlocked with an indoor unit (interlocking unit): 1</li> <li>Number of indoor units (interlocking unit) that can be interlocked with a LOSSNAY unit (interlocked unit): 16</li> </ul>				
		ON/OFF	The ON/OFF operation can be performed as a collective or per group or per block.				
	Operation *1	Operation mode	The switch operation for the operation mode setting can be performed as a collective or per group or per block. (Available modes depend on the model.) [Selectable operation mode for the indoor unit] COOL/DRY/FAN/AUTO/HEAT [Selectable operation mode for the independent ventilation] HEAT RECOVERY/BY-PASS/AUTO [Selectable operation mode for Hot water supply equipment] HEATING/HEATING ECO/HOT WATER/ANTI-FREEZE/COOLING				
		Fan speed	Up to four fan speeds are available, and the fan speed can be changed collectively, or for each group or block of indoor units. (The number of available fan speeds depends on the model (2 speeds, 3 speeds, 4 speeds, and Auto). "Auto" is available only on the models that support that function.)				
User Operations Function		Temperature setting	Temperature setting can be performed collectively or per group or per block.[Setting temperature range for air conditioner]Cool (Dry) operation: $19 \sim 30^{\circ}$ C / $67 \sim 87^{\circ}$ FHeat operation: $17 \sim 28^{\circ}$ C / $63 \sim 83^{\circ}$ FAuto operation: $19 \sim 28^{\circ}$ C / $67 \sim 83^{\circ}$ F[Setting temperature range for Air To Water Booster unit][Air To Water Booster unit]*3[Air To Water Booster unit]*3Heating: $30 \sim 50^{\circ}$ C / $87 \sim 112^{\circ}$ FHeating ECO: $30 \sim 45^{\circ}$ C / $87 \sim 113^{\circ}$ FHeating ECO: $30 \sim 45^{\circ}$ C / $87 \sim 113^{\circ}$ FHot Water: $30 \sim 70^{\circ}$ C / $87 \sim 158^{\circ}$ FHot Water: $30 \sim 70^{\circ}$ C / $87 \sim 158^{\circ}$ FHot Water: $10 \sim 45^{\circ}$ C / $50 \sim 113^{\circ}$ FAnti-freeze: $10 \sim 45^{\circ}$ C / $50 \sim 113^{\circ}$ FCooling:InvalidCooling:10 $\sim 30^{\circ}$ C / $50 \sim 87^{\circ}$ F				
ן		Air direction and swing operation	Vertical air flow directions (5 directions), auto setting, and swing setting can be changed collectively, or for each group or block of indoor units. (Available air flow directions depend on the model. [5 air flow directions and AUTO] are available only on the models that support those settings.				
		Operating/stopping the interlocked LOSSNAY units	Interlocked LOSSNAY units (if any) can be operated (at High or Low) or stopped collectively or for each group or block of indoor units. (Ventilation mode cannot be selected for the interlocked LOSSNAY units.)				
		Schedule	<ul> <li>Group is the smallest unit to which a weekly schedule can be assigned. The same schedule can be applied to each group, groups in a block, or groups on a floor.</li> <li>Up to 24 events can be scheduled for each day.</li> <li>"Temperature Setting", "Fan Speed Setting", "Vane Setting", and "Setback Operation" can be timer-controlled.</li> <li>If a license is registered</li> <li>Two types of weekly schedule patterns (summer and winter) are available.</li> <li>Five operation patterns (A-E) can be set for each year, up to 50 days can be allocated to each pattern.</li> </ul>				

		Function	Description
		Prohibit local remote control	Operation of certain functions from the local remote controllers can be prohibited collectively or for each group or blocks of indoor units. (Applicable functions: ON/OFF, operation mode, temperature setting, filter sign)
		Filter sign reset	Filter sign can be reset for each group or block of indoor units.
	Operation *1	Error reset	Resets the display of error.
	I	Error history reset	Resets the error history (unit error, communication error).
Function		External input	Connects to an external input/output device that stops the units in an emergency, run or stop the units, permit or prohibit the operation of units collectively. Requires an external input/output adapter (sold separately).
Itions		ON/OFF (system)	The ON/OFF indicator lamp indicates if one or more groups or all the groups in the system are stopped.
User Operations		Operation status of each group in the system	Operation status (ON/OFF), operation mode, fan speed, temperature setting, air flow direction, operation status (ON/OFF) of interlocked units, timer enable/disable status of each group is displayed.
Us	Monitor	Filter sign	Indicates that the filter on the units in a given group is due for cleaning.
	*1	Local operation prohibition	Displays the functions that the controller forbids or the functions that are forbidden by other controllers.
		Error	The address of the unit in error, error code, and the address of the unit that detected the error will appear.
		External output	Outputs signals (run/stop, error) to an external device. Requires an external input/ output adapter (sold separately).
		Date and time	This function is used to set the current date/time and daylight savings time.
	Operation	License	This function is used to register license.
		Unit Info.	This function is used to set unit name, ID number, brightness of the LCD, sound volume, date format, time format, temperature unit, and display language.
ngs		Network	This function is used to set the IP address, subnet mask address, and gateway settings for the LAN and also to set the address, K-transmission converter address, local control prohibit settings, and external input settings for the M-NET.
l Settings	*1	Groups	This function is used to register indoor units, LOSSNAY units, remote controllers, and lower-level system controllers to a group.
Initial		Blocks	This function is used to register a group to a block.
-		Interlock	This function is used to interlock the operation of indoor units and LOSSNAY units.
		Floor Layout	This function is used to make the basic settings for the floor layout and display position of the groups.
		Error history monitor	Up to 128 errors can be stored in memory. (64 unit errors, 64 communication errors)
	Monitor *1	Refrigerant system configuration	Allows the user to see which indoor units are connected to each outdoor unit.
Ъ		Maintenance User	Allows the maintenance user name and password to be set.
User Setting	Operation *1	Building Manager	Allows the building manager name, password, function enable/disable settings to be made.
		Connection/Interlock Information	Group setting information and interlock setting information are retained, even if power is turned off.
	D - 1:	Error history	Retained, even if power is turned off.
ř	Data back-up	Schedule data	Schedule information of each group is retained, even if power is turned off.
Other	back-up	Current time	Current time is retained by the build-in capacitor for a week, even if power is turned off.
		Saving the data on a USB drive	The initial setting data, history data, calculated values, and computed values can be stored to a USB drive.
	Device maintenance	Touch panel cleaning	Touch panel is locked and can be cleaned.

\*1: The item and range that can be operated or monitored depend on the function of the indoor unit.\*2: The maximum number of the controllable units varies depending on the indoor unit.

\*3: "Hot Water Supply" on the AG-150A screen indicates Air To Water Booster unit group and Air To Water HEX unit group.

\* Upper-level and lower-level system controllers

The controller described in this manual can only be used as the upper-level controller, but not as a lower-level controller.

Upper-level system controller (upper-level SC)

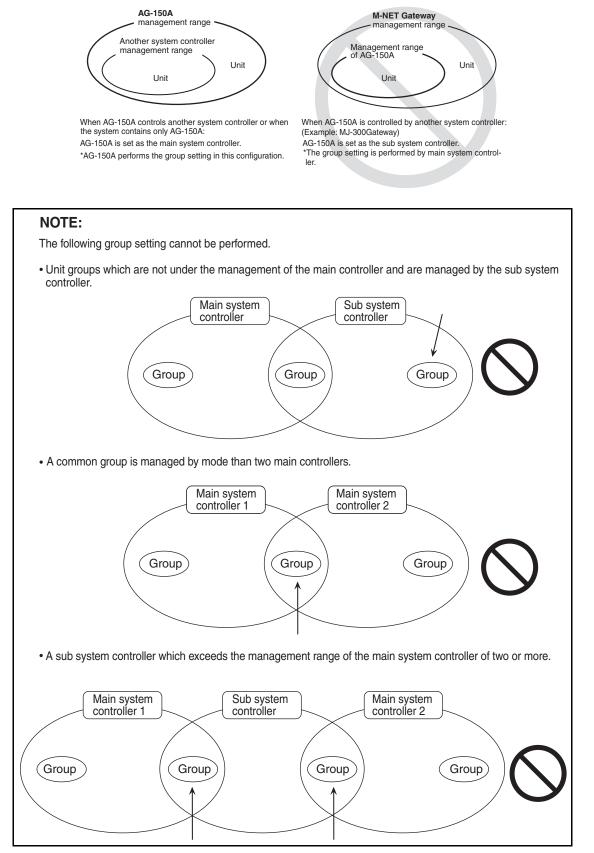
Upper-level SC refers to a controller that controls all other system controllers including the units they control.

If a given system has only one system controller, that controller becomes an upper-level controller.

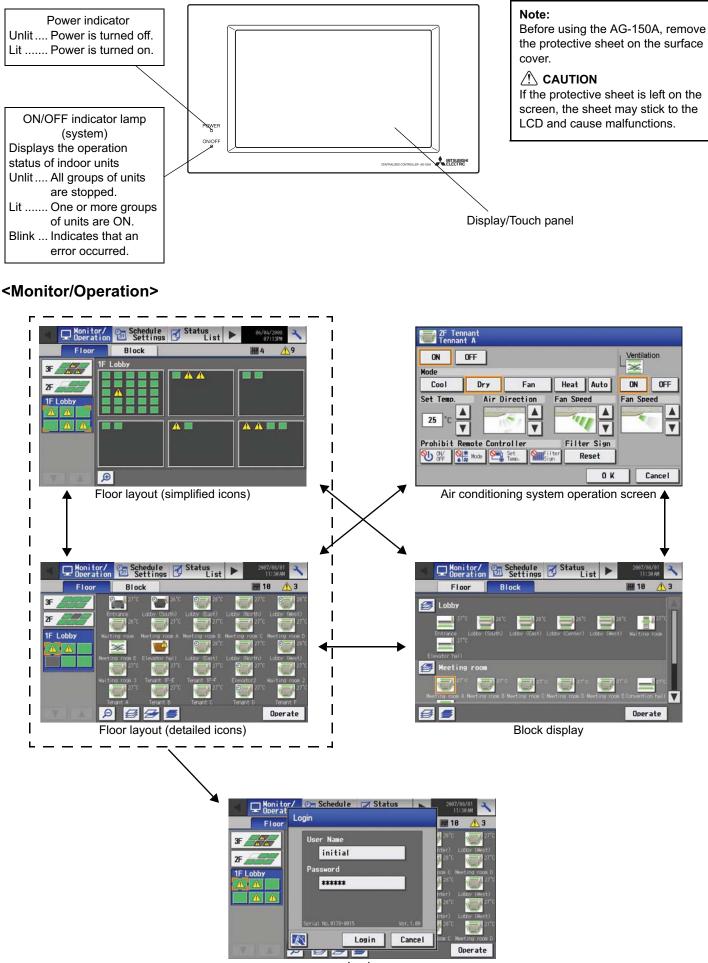
Group settings and interlock settings can only be made from an upper-level controller.

Lower-level system controller (lower-level SC)

Lower-level controller refers to a system controller that is controlled (including the units it controls) by an upper-level system controller.



### 3. Component names and display screen names





#### <Schedule Settings>

A

i Art

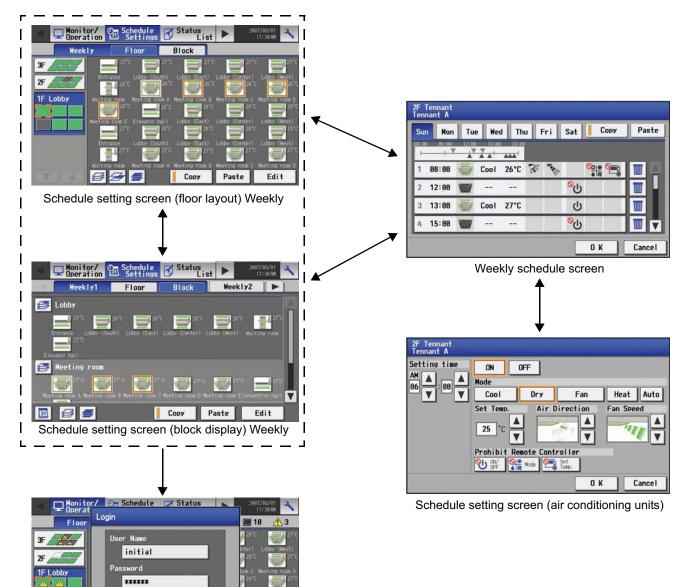
Login

Login

Cancel

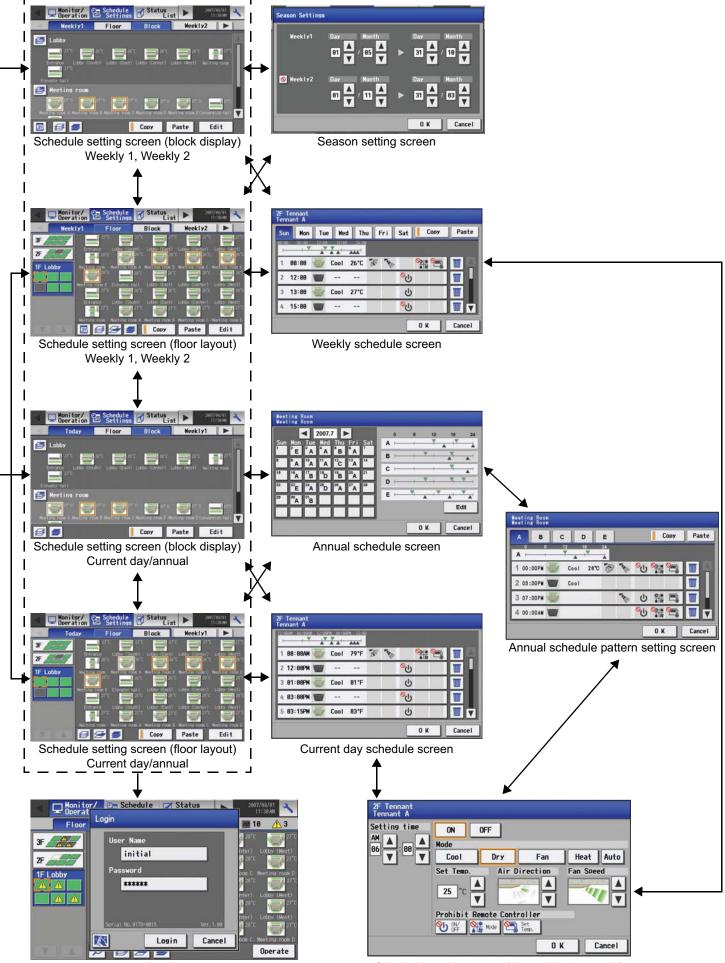
Operate

· Setting the schedule without a license registration



#### <Schedule Settings>

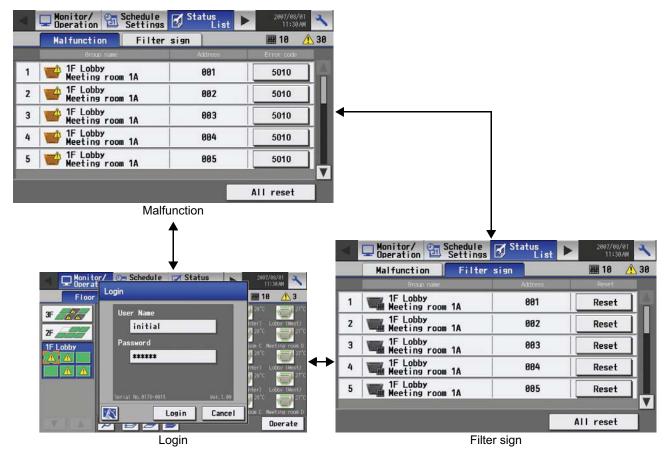
· Setting the schedule with a license registration



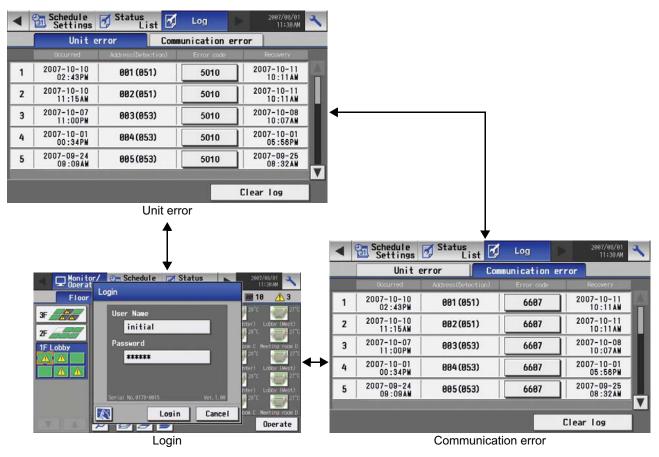
Login

Schedule setting screen (air conditioning units)

#### <Status List>

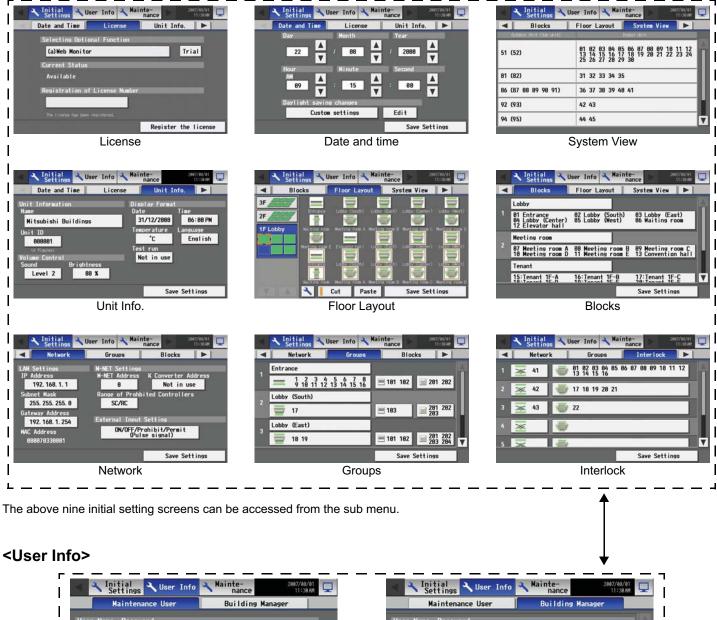


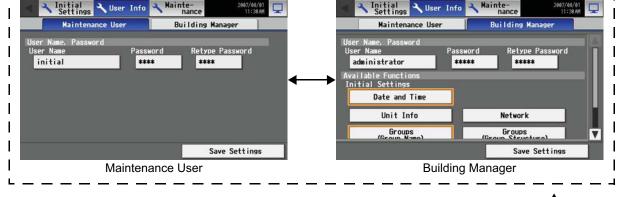
#### <Log>

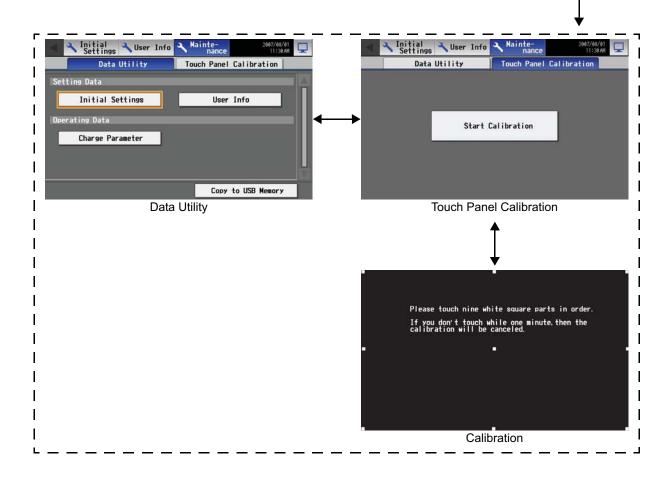




### <Initial Settings>

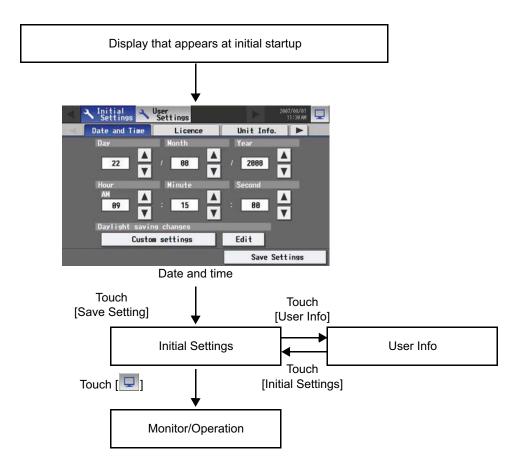


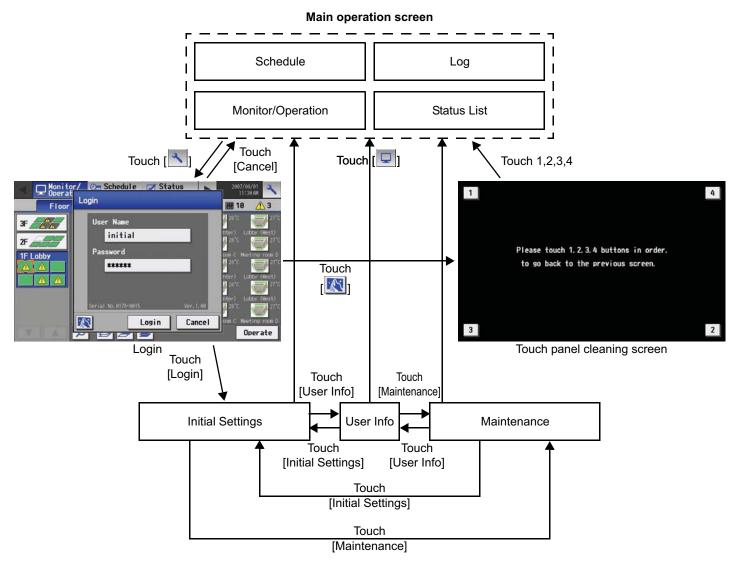




#### <Displays>

Initial startup





- \* Normally, the screen remains black. The backlight turns on when the touch panel is touched and stays on while the user is operating the touch panel. The backlight goes off after 10 minutes of non-operation.
- \* When an error occurs, the backlight turns on regardless of whether the user is operating the touch panel.

#### 

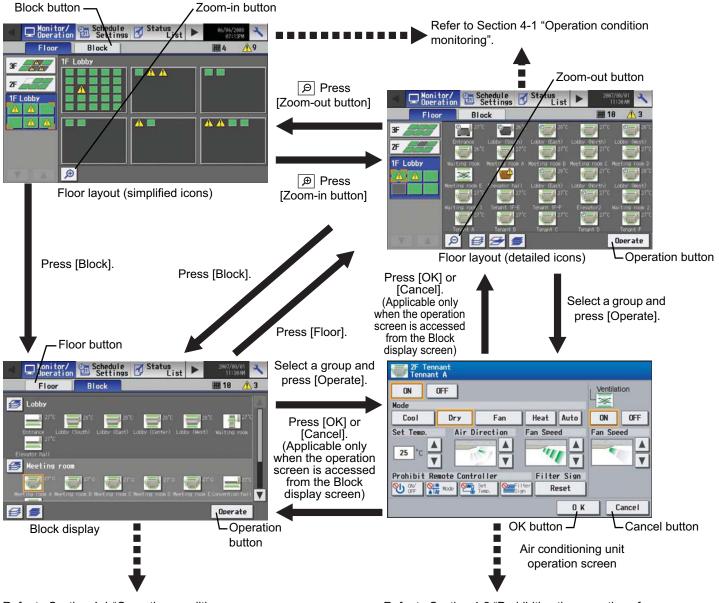
- If nothing appears on the display after touching the touch panel several times, the LCD backlight may be damaged. Since continued use may cause malfunctions, stop the operation, and contact the service center.
- Touching two points simultaneously will be interpreted as pressing a different point. To avoid malfunctions, only touch one point at a time.

### 4. User operation

Used the following two screens when user operation is performed.

Floor layout/block display screens	Displays the operation status (ON/OFF) and error status of the air conditioning units
	This is the screen that is normally used.
Air conditioning unit operation setting screen.	Collective or individual group operation of indoor units are performed on this screen
	(ON/OFF, operation mode, air flow direction, fan speed, temperature setting, timer
	enable/disable, prohibition/permission of operation from local remote controller,
	filter reset, room temperature display).

<Accessing the Floor layout, Block display, and Air conditioning unit operation setting screens>

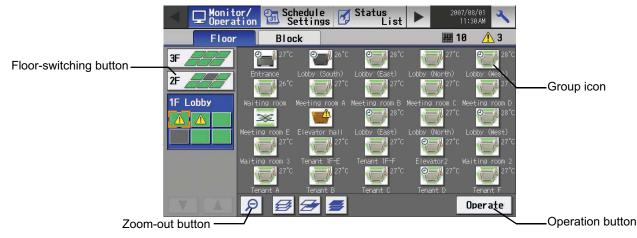


Refer to Section 4-1 "Operation condition monitoring".

Refer to Section 4-2 "Prohibiting the operation of air conditioning units from the local remote controllers".

### 4-1 Operation condition monitoring

• This function displays the ON/OFF/Malfunction status of specific units or group.



#### (1) Operation method

• Note that operation methods are different for group operation and block operation.



Zoom-out button -

The operation (ON/OFF) and error status of the air conditioning units can be checked with the icons on the screen.



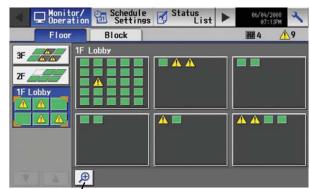
- \* If there is a device that cannot be identified,  $\ref{product}$  will appear over the icon of the device.
- Click on the icon of a group, and then click "Operate" to go into the screen that allows the operation of that group. On the screen, detailed information about the temperature, fan speed, air flow direction, prohibit/permit status of the remote controller, and mode can be checked. (If air conditioning unit group, ventilation equipment (LOSSNAY) group, general equipment group, and Hot Water Supply group are included in the selected group, a screen will appear, asking the user to select a group. Once the selection is made, an operation screen will appear.)
- Pressing the Zoom-out button takes the screen back to the screen with simplified icons.
- By pressing the floor switching button, air conditioning units on other floors can be checked.

(Several types of icons will appear.)

The operation (ON/OFF) and error status of the air conditioning units can be checked with the icons on the screen.



- Pressing the Zoom-in button will take the screen back to the screen with simplified icons.
- By pressing the floor switching button, air conditioning units on other floors can be checked.



Zoom-in button -

<Group display (simplified icons)>

 Image: Second of the second second

<Block display>

The operation (ON/OFF) and error status of the air conditioning units can be checked with the icons on the screen.

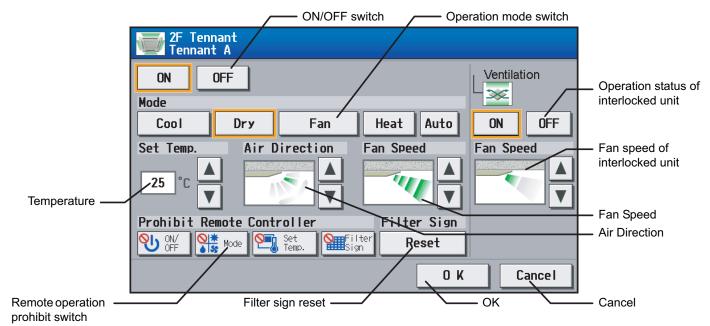


- \* If there is a device that cannot be identified, ? will appear over the icon of the device.
- Click on the icon of a group, and then click "Operate" to go into the screen that allows the operation of that group. On the screen, detailed information about the temperature, fan speed, air flow direction, prohibit/permit status of the remote controller, and mode can be checked.
- Press the scroll button and to see the status of the rest of the blocks that are not shown on the screen. (Several types of icons will appear.)

- Scroll button

### 4-2 Prohibiting the operation of air conditioning units from the local remote controllers

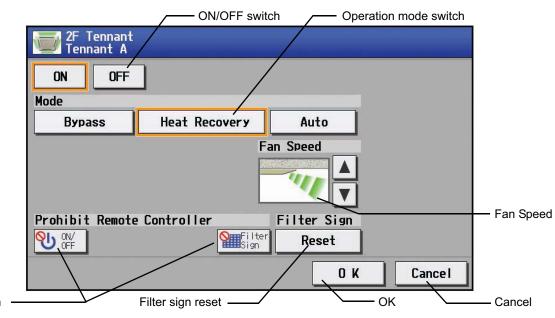
(1) Air conditioning unit group



	Function	Operation method	Display							
1	ON/OFF	Select the operation status (ON or OFF).	An or	An orange frame will appear around the selected button.						
2	MODE	Select the desired operation mode from one of the icons below "Mode".	An or	An orange frame will appear around the selected mode.						
3	Set Temperature	Set the temperature by using the Up/Down arrows below "Set Temp".	respe The s press	sing the Up/Down a actively. settable temperatur sed when the upper ar, and the Down a	e range depends o limit temperature i	on the mode and n	nodel. If the Up arro	ow is		
				Model	Cooling/Dry	Heating	Auto			
				Standard temp model	19 ~ 30°C [67 ~ 87°F]	17 ~ 28°C [63 ~ 83°F]	19 ~ 28°C [67 ~ 83°F]			
			Mid temp model14 ~ 30°C(CITY MULTI)[57 ~ 87°F]			17 ~ 28°C [63 ~ 83°F]	17 ~ 28°C [63 ~ 83°F]			
				Mid temp model (Mr. Slim)	14 ~ 30°C [57 ~ 87°F]	14 ~ 28°C [57 ~ 83°F]	14 ~ 28°C [57 ~ 83°F]			

	Function	Operation method			Display			
4	Air Direction Setting	Set the air flow direction with the Up/Down arrows below "Air Direction".	5-directions model → (Mid 3)	→ (Mid 2)	(Mid 1)	→	(Horizontal)	
			→ <b>→</b> →	→·· (Auto) not available o	n some mode			
5	Fan speed	Use the Up/Down arrows below "Fan Speed" to set the fan speed.		(Low) →·· (Auto)	(Mid 2)	(Mid 1)	→ (High)	
			("Auto" is not availabl three fan speeds.)	e on some mo	dels. Some n	nodels of units h	ave only two or	
6	Remote Prohibit Press the button that controller controller desired function and		Pressing of each button toggles through the following three options: Retention of current status $\rightarrow$ Permit $\rightarrow$ Prohibit					
		setting to permit or prohibit the operation from the remote controller. The functions that can be prohibited are as follows: ON/OFF, operation mode, temperature, and filter sign reset.		Retention current sta		Permit	Prohibit	
			ON/OFF	С U			லு	
			Operation mode	* * *		\$ ♦ \$\$	<mark>⊘i ≭</mark> ≜ \$\$	
			Temperature setting					
			Filter sign reset					
7	Filter sign reset	Press "Reset" under "Filter Sign".	Filter cleaning warnin	ig sign will be o	cleared. (Curr	nulative operation	n time is reset.)	
8	Ventilation ON/ OFF	Select the ON/OFF status for the interlocked unit.	An orange frame will	appear around	the selected	operation status	S.	
9	Ventilation Fan speed	Set the fan speed with the Up/Down arrows below "Fan Speed".	2-speed model:	→ (Low)	(High)			
			(Fan speed setting is			els )		
10	ОК	Press the OK button to reflect the change.	Pressing the OK butto screen (Floor layout of	on saves the s	etting and tak		ack to the previous	
11	Cancel	Press the Cancel button to cancel the change.	Pressing the Cancel previous screen (Floo	button cancels	the change a	and takes the scr	reen back to the	

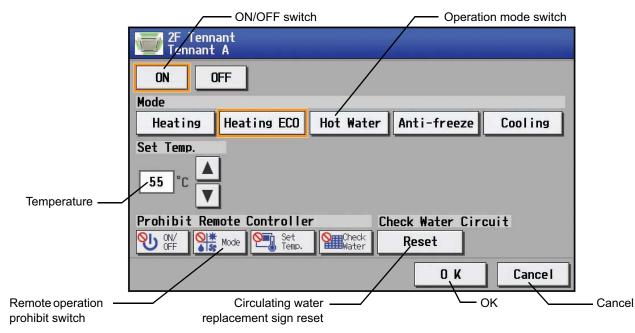
#### (2) Ventilation equipment (LOSSNAY) group



Remote operation prohibit switch

	Function	Operation method		Displ	ау				
1	ON/OFF	Select the operation status (ON or OFF).	An orange frame will appear around the selected button.						
2	MODE	Select the desired operation mode from one of the icons below "Mode".	An orange frame will appear around the selected mode.						
3	Fan speed	Use the Up/Down arrows below "Fun Speed" to set the fan speed.	2-speed model: $\rightarrow$ $(Low)$ $(High)$ (Fan speed setting is not available on some models.)						
4	Remote Prohibit controller	Press the button that corresponds to the desired function and	Pressing of each button toggles through the following three options: Retention of current status $\rightarrow$ Permit $\rightarrow$ Prohibit						
		setting to permit or prohibit the operation		Retention of current status	Permit	Prohibit			
		from the remote controller. The functions that can be prohibited	ON/OFF	С		<mark>⊗</mark> ∪			
		are as follows: ON/OFF and filter sign reset.	Filter sign reset			<b>\</b>			
5	Filter sign reset	Press "Reset" under "Filter Sign".	Filter cleaning warnin	g sign will be cleared.	(Cumulative operat	ion time is reset.)			
6	ОК	Press the OK button to reflect the change.	Pressing the OK butto screen (Floor layout o	on saves the setting ar or Block display).	nd takes the screen	back to the previous			
7	Cancel	Press the Cancel button to cancel the change.		outton cancels the cha r layout or Block displ		screen back to the			

#### (3) Hot water supply equipment group



	Function	Operation method		Dis	play			
1	ON/OFF	Select the operation status (ON or OFF).	An orange frame will	appear around the	selected button.			
2	MODE	Select the desired operation mode from one of the icons below "Mode".	An orange frame will appear around the selected mode.					
3	Set Temperature	Set the temperature by using the Up/Down arrows below "Set Temp".	respectively. The settable temperatouched when the up The lower limit temperatouched when the up The lower limit temperatouched [Air To Water Booste Heating: 30 ~ Heating ECO: 30 ~ Hot Water: 30 ~	ature range depends oper limit temperature erature will appear, a r unit] <sup>*3</sup> • 50°C / 87~122°F • 45°C / 87~113°F • 70°C / 87~158°F • 45°C / 50~113°F lid	on the mode and e is displayed. and the Down arro [Air To Water HI Heating: Heating ECO: Hot Water: Anti-freeze: Cooling:	EX unit] <sup>*3</sup> 30 ~ 45°C / 87~113°F 30 ~ 45°C / 87~113°F 30 ~ 90°C / 87~194°F 10 ~ 45°C / 50~113°F 10 ~ 30°C / 50~87°F		
4	Remote Prohibit controller	Press the button that corresponds to each of the following buttons to permit	Pressing of each button toggles through the following three options: Retention of current status $\rightarrow$ Permit $\rightarrow$ Prohibit					
		or prohibit access to these functions: ON/OFF, operation mode, temperature, and circulating water replacement.		Retention of current status	Permit	Prohibit		
			ON/OFF	C		லு		
			Operation mode	<u>*</u> \$	<u>⇔</u> *	<mark>⊘} ≭</mark> ♦ \$\$		
			Temperature setting					
			Circulating water replacement			<u> </u>		
5	Circulating water replacement sign reset	Press the OK button with the circulating water replacement sign reset button being touched.	The circulating water	replacement sign is	reset.			
6	ОК	Press the OK button to reflect the change.			and takes the scre	een back to the previous		
7	Cancel	Press the Cancel button to cancel the change.	Pressing the Cancel	screen (Floor layout or Block display). Pressing the Cancel button cancels the change and takes the screen back to the previous screen (Floor layout or Block display).				

#### 4-3 Setting Schedules

#### 4-3-1 Setting the schedule without a registered license

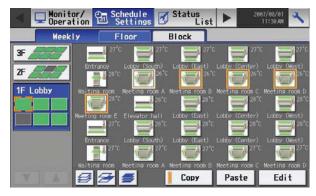
If a license has not been acquired, only the weekly schedule functions available.

#### • Setting the Weekly Schedule

Touch the menu item [Schedule Settings] and click [Weekly] in the sub menu to display the Weekly Schedule setting screen. To set a weekly schedule, you first must select what will be the target of this schedule and then set the schedule details from Sunday right through to Saturday.

Note: When the contents of an operation are executed as part of a schedule these contents will continue to be in effect until they are changed by a schedule or browser etc. Therefore, if you are setting a schedule that is only for a particular day, be sure to set your schedule in a way that will not impact on the next day's operation.

For example, if you wish to prohibit operations being performed from the remote controller after 17:00, set a Prohibit operation for 17:00 and set an Enable operation for 23:59.



(1) Select the type of schedule settings to make.

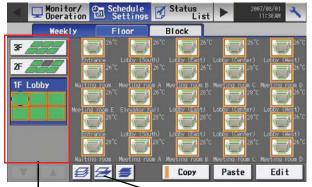
(1-1) Group



To make the settings for a group, select the group by touching the corresponding icon on the weekly schedule setting screen (floor layout or block display). Multiple groups can be selected. An orange frame appears on the group that has been selected. Selection can be cancelled by touching the icon again. Touch the Cancel button to deselect all.

Each group is represented with an icon and a group name.

#### (1-2) Floor

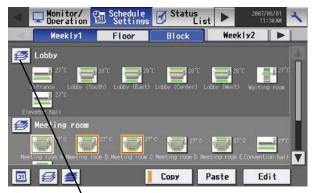


the floor layout screen under the weekly schedule setting screen menu, and touch the Select-all-units-on-the floor button. An orange frame will appear around the icons of all groups on the selected floor, and also around the floor selection button. Only a single floor can be selected at a time.

To make the settings for all groups on a given floor, select the floor on

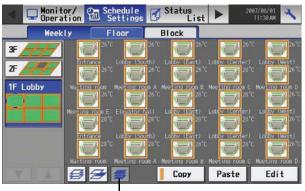
Floor selection button

Select-all-units-on-the floor button

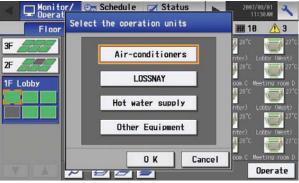


Block selection button

#### (1-4) All groups

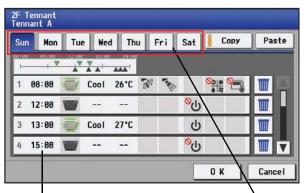


Select-All-Units button



Equipment type selection screen

(2) Select the day of the week



Schedule content button

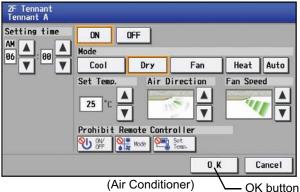
Days of the week menu

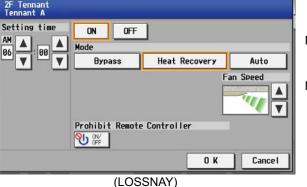
To make the settings for a block or blocks, select the block selection button on the block display screen under the weekly schedule setting screen by touching it. An orange frame will appear around the icons that correspond to the selected blocks.

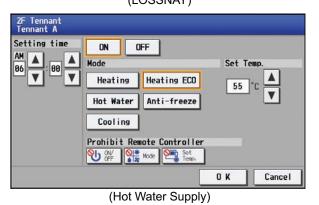
To make the settings for all groups, touch the Select-all-units button on the weekly schedule setting screen (floor layout or block display screen). An orange frame appears around the icons of all groups. After making the selection, touch the [Edit] button at the right bottom corner of the screen to bring up the weekly schedule screen.

If the air conditioning unit group, ventilation equipment (LOSSNAY) group, general equipment group, and Hot Water Supply group are included in the selected group, a screen will appear asking you to select the type of equipment. Once the selection has been made, a weekly schedule screen will appear.

Select the days of the week from the weekly schedule setting screen and touch the schedule content button to bring up the schedule content setting screen.







(4) Copy a schedule to another day of the week or to another group

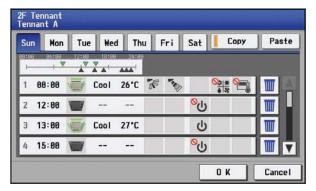
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4 15:00 👿		ტ <sup>0</sup>		
			<u>0 // </u>	Consel
			OK	Cancel
Monitor/	Schedule	Status List		007/08/01
Monitor/ Operation Weekly	Settings 🗳 Floor	Status List Block		387/88/01
Operation Weekly	Eloor Floor 21'C	Status List Block	► 2	997/08/01 11:30 AN
Operation Weekly 3F 2F	211 Settings 🖆 Floor 21 <sup>°C</sup> 📑 21 <sup>°C</sup>	Status List Block	► 2	997/98/91 11:38 AM
Operation Weekly 3F 2F	Settings     Floor     Settings     Z <sup>7</sup> Z <sup>7</sup> C     Settings     Z <sup>7</sup>	Status List Block Cottor (Sast) Cottor (Sast) Neeting room B	Letter 20	11:38.AM
Coperation Weekly 37 27 17 Lobby Weiting	Settings     Floor     Floor     Z <sup>2</sup> C     Z <sup>2</sup> C     Cody (South)     Z <sup>2</sup> C     Z <sup>2</sup> C     Cody (South)     Z <sup>2</sup> C     C	Status List Block C 27°C Locov. (East) C 20°C Locov. (East)	Loopy Conter) Neeting room ( 28	997/98/91 11:30 AM 10 10 10 10 10 10 10 10 10 10 10 10 10
Coperation Weekly 37 27 17 Lobby Weiting	Settings	Status List Block C 27°C C 20°C (Sart) C 20°C (Sart) Neeting room B C 28°C Lobby (East)	Lobby Conter Lobby Conter Meeting room ( 23 Lobby Conter) 28 Lobby Conter	997/98/91 11:39 AF 11:39 AF 10:0000 (Negel) 10:0000 (Negel) 10:0000 (Negel) 10:0000 (Negel) 10:0000 (Negel)
Deparation Weekly 3F 2F 1F Lobby Meekly Meekly Meekly	Settings E Floor 27'C 22'C 28'C 22'S 28'C 25'S 28'C 25'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 28'S 2	Status List Block C 27°C C 20°C (Sart) C 20°C (Sart) Neeting room B C 28°C Lobby (East)	Lodov (Conter) Lodov (Conter) Meet ins room (S Lodov (Conter) Lodov (Conter) Lodov (Conter) 27	11:39 AV 11:39 AV 12:00 AV 14:00

Make the settings for the execution time, operation patterns (ON/OFF, operation mode, setting temperature, airflow direction, fan speed, remote controller operation prohibition) on the schedule content setting screen, and then touch the [OK] button. Not all settings need to be made. The settings for only the operation mode or the setting temperature, for example, can be made.

- Note: When setting a schedule for all groups or for a block, it is possible to set all operation modes such as Auto mode etc, but if some targeted air conditioner units do not have such a function, then those units will not run in the specified mode. When setting the schedule, consider what functions are supported by the air conditioner units.
- Note: When setting a schedule for all groups or for a block, it is possible to set prohibit remote controller items individually. When allowing remote controller operation under K control, however, all items must be set enable.
- Note: When setting a schedule for ventilator units, the temperature setting is not displayed. Moreover, the prohibit remote controller operation is simply [ON/OFF].
- Note: Only the ON/OFF operation is possible on the general equipment.

To copy the schedule of a given day to another day, select the days of the week from the weekly schedule setting screen, touch [Copy] to select it, select a day to copy the schedule to, and touch [Paste]. To copy the weekly schedule for one group to another group, select the group from the weekly schedule setting screen (Floor layout or block display screen), touch [Copy], select a group to copy the schedule to, and touch [Paste].

- The settings of one type of equipment cannot be copied to the settings of a different type of equipment. (i.e., The settings of air conditioning units cannot be copied to ventilation equipment settings.)
- Available operation modes and setting temperature range varies with models.



#### 4-3-2 Setting the schedule with a registered license

When a license is registered, it is possible to set different weekly (2 types)/annual/today's schedules for each air conditioner group. Moreover, for any weekly/annual/today's schedule run for a particular day, the priority in which it is run will be from the highest and the order will be [Today's], [Annual], [Weekly]. Two types of weekly schedule (Summer/Winter) can be set.

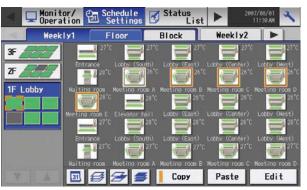
#### 4-3-2-1 Setting the Weekly Schedule

Touch the menu item [Schedule Settings] and touch [Weekly1] or [weekly2] in the sub menu to display the Weekly Schedule setting screen. To set a weekly schedule, you first must select what will be the target of this schedule and then set the schedule details from Sunday right through to Saturday.

Note: When the contents of an operation are executed as part of a schedule these contents will continue to be in effect until they are changed by a schedule or browser etc. Therefore, if you are setting a schedule that is only for a particular day, be sure to set your schedule in a way that will not impact on the next day's operation.

For example, if you wish to prohibit operations being performed from the remote controller after 17:00, set a Prohibit operation for 17:00 and set an Enable operation for 23:59.

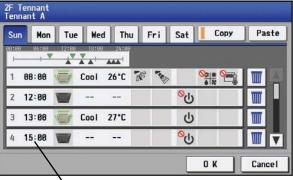
(1) Select the schedule to set.



(2) Select the type of schedule settings to make.

Select the type of schedule settings to make by referring to Section 1 above under "Select the type of schedule settings to make."

(3) Select the day of the week



Schedule content button

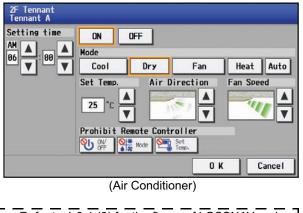
Select the days of a week from the weekly schedule screen and touch the schedule content button to bring up the schedule content setting screen.

Select either [Weekly 1] or [Weekly 2] from the sub menu. (Two types

of weekly schedule patterns are available if the license is registered.)

After all the settings have been made, touch the [OK] button to save the schedule settings.

Touch the [Cancel] button to go back to the previously saved settings without making any changes.

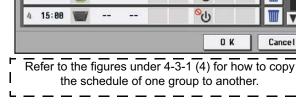


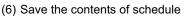
Refer to 4-3-1 (3) for the figure of LOSSNAY and 1 hot water supply equipment.

Make the settings for the execution time and operation patterns (ON/ OFF, operation mode, setting temperature, airflow direction, fan speed, remote controller operation prohibition) on the schedule content setting screen, and then touch the [OK] button. Not all settings need to be made. The settings for only the operation mode or the setting temperature, for example, can be made.

- Note: When setting a schedule for all groups or for a block, it is possible to set all operation modes such as Auto mode etc, but if some targeted air conditioner units do not have such a function, then those units will not run in the specified mode. When setting the schedule, consider what functions are supported by the air conditioner units.
- Note: When setting a schedule for all groups or for a block, it is possible to set prohibit remote controller items individually. When allowing remote controller operation under K control, however, all items must be set enable.
- Note: When setting a schedule for ventilator units, the temperature setting is not displayed. Moreover, the prohibit remote controller operation is simply [ON/OFF].
- Note: Only the ON/OFF operation is possible on the general equipment.
- 2F Tennant Tennant A Tue Wed Thu Fri Sat Copy Paste Sun Mon -1 08:00 Cool 26°C 😿 🍖 001\* 0 <sup>0</sup>رل 2 12:00 W 13:00 Cool 27°C ტ IIII 15:00 СU III V Cancel OK Refer to the figures under 4-3-1 (4) for how to copy the schedule of one group to another.

(5) Copy a schedule to another day of the week or to another group





	ennant ant A									
Sun	Mon	Tu	e We	d Th	u F	ri	Sat	Сору	Pas	ste
00:00 	06:00 1	12:00		24:00						
1	08:00		Cool	26°C	1	-		55 ¥		
2	12:00						<mark>%</mark> ل		W	ш
3	13:00		Cool	27°C			ს			
4	15:00						<mark>%</mark> ტ		W	V
								OK	Cano	el

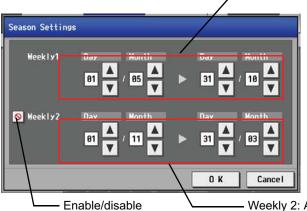
To copy the schedule of a given day to another day, select the days of the week from the weekly schedule setting screen, touch [Copy] to select it, select a day to copy the schedule to, and touch [Paste]. To copy the weekly schedule of one group to another group, select the group from the weekly schedule setting screen (Floor layout or block display screen), touch [Copy], select a group to copy the schedule to, and touch [Paste].

- The settings of one type of equipment cannot be copied to the settings of a different type of equipment. (i.e., The settings of air conditioning units cannot be copied to ventilation equipment settings.)
- Available operation modes and setting temperature range varies with models.
- Schedules cannot be copied to or from between [Weekly 1] and [Weekly 2].

After all the settings have been made, touch the [OK] button to save the schedule settings.

Touch the [Cancel] button to go back to the previously saved settings without making any changes.

- 22 -



Weekly 1: Applicable period

Pressing the Season Settings button on the schedule setting screen (1) will bring up the Season Settings screen, and the duration of each seasons can be defined, to which [Weekly 1] or [Weekly 2] schedules are applied. Touch the "Enable/disable switching button" to enable or disable the "Weekly 2" setting.

The period setting can go past 12/31 (i.e., 11/1~3/31).

switching button

Weekly 2: Applicable period

#### 4-3-2-2 Setting the annual schedule (Applicable only when the license is registered)

Selecting [Schedule Setting] from the main menu on the [Main operation screen] will bring up the schedule setting screen. Subsequently, selecting [Annual] from the sub menu will bring up the annual schedule setting screen. You can use the annual schedule to set schedules for days such as public holidays and summer vacation that need to be scheduled differently to the weekly schedule. For each air conditioner group, it is possible to set 50 day-long settings up to 24 months into the future (including the current month).

Settings for days that have passed will be deleted automatically.

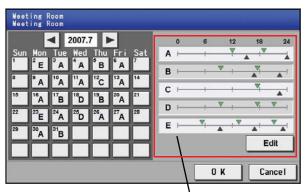
To make the settings for the annual schedule, first select the item to be set, and then touch [Edit] to bring up the annual schedule screen. Make the settings for the five patterns (pattern A through E) on the weekly schedule screen, and then assign those patterns to appropriate dates (e.g., holidays, or summer break).

Note: When the contents of an operation are executed as part of a schedule these contents will continue to be in effect until they are changed by a schedule or browser etc. Therefore, if you are setting a schedule that is only for a particular day, be sure to set your schedule in a way that will not impact on the next day's operation.

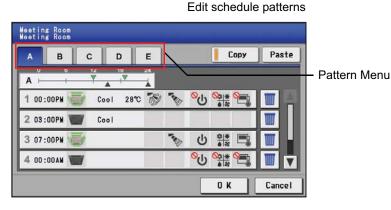
For example, if you wish to prohibit operations being performed from the remote controller after 17:00, set a Prohibit operation for 17:00 and set an Enable operation for 23:59.

#### (1) Select the item to be set.

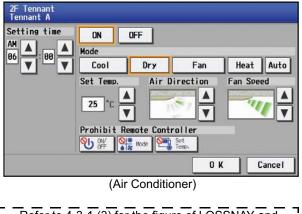
- As with the weekly schedule setting, select the item to be set. (Refer to 4-3-1 (1).)
- (2) Select a pattern.

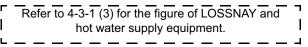


Touching the alphabetic letters in the calendar or touching the Edit button in the annual schedule screen will bring up the schedule pattern setting screen. Select the pattern you want to edit.

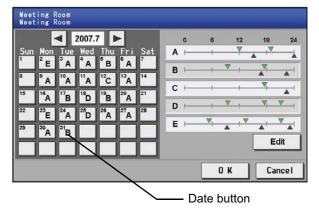


#### (3) Edit the patterns.





(4) Assign schedule patterns to special dates.



(5) Copy a schedule to another pattern or to another group

AB	D	<b>E</b>			Сору	Paste
A	Y IV					
1 00:00PM 🥣	Cool 2	8°C 🐼	THE OWNER OF	<mark>%</mark> ل		
2 03:00PM	Cool					
3 07:00PM				ს		
4 00:00AN				<mark>ര</mark> പ്		
					0 K	Cancel
Refer to the the sc	figures ( hedule			• •		

After selecting the pattern, touch the schedule content button to bring up the schedule content setting screen. Make the settings for the execution time and operation patterns (ON/OFF, operation mode, setting temperature, airflow direction, fan speed, remote controller operation prohibition) on the schedule content setting screen, and then touch the [OK] button. Not all settings need to be made. The settings for only the operation mode or the setting temperature, for example, can be made.

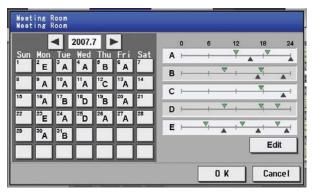
- Note: When setting a schedule for all groups or for a block, it is possible to set all operation modes such as Auto mode etc, but if some targeted air conditioner units do not have such a function, then those units will not run in the specified mode. When setting the schedule, consider what functions are supported by the air conditioner units.
- Note: When setting a schedule for all groups or for a block, it is possible to set prohibit remote controller items individually. When allowing remote controller operation under K control, however, all items must be set enable.
- Note: When setting a schedule for ventilator units, the temperature setting is not displayed. Moreover, the prohibit remote controller operation is simply [ON/OFF].
- Note: Only the ON/OFF operation is possible on the general equipment.

Assign the schedule patterns to the dates to which regular weekly schedule does not apply, such as holidays and summer break. Touch the desired date on the calendar to see which pattern is assigned to the date. Each touching of the button will cycle through the letters ABCDE and blank, then back to A. Touch the button until you get the pattern you want. Select blank to cancel the selection.

To copy a pattern to another, select the pattern from the pattern menu on the schedule pattern setting screen, touch [Copy] to select it, select a pattern to copy to, and touch [Paste].

To copy the annual schedule for one group to another group, select the group from the annual schedule setting screen (Floor layout or block display screen), touch [Copy], select a group to copy the schedule to, and touch [Paste].

- \* The settings of one type of equipment cannot be copied to the settings of a different type of equipment. (i.e., The settings of air conditioning units cannot be copied to ventilation equipment settings.)
- <sup>\*</sup> Available operation modes and setting temperature range varies with models.



#### 4-3-2-3 Setting the current date schedule

Selecting [Schedule Setting] from the main menu on the [Main operation screen] will bring up the schedule setting screen. Subsequently, selecting [Today] from the sub menu will bring up the current day schedule setting screen. By using this function, schedule for the current date can be set without having to change the weekly or annual schedule. First select the item to be set, and then set the schedule.

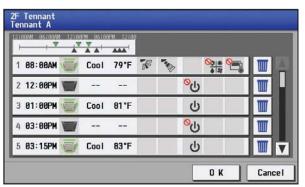
Note: When the contents of an operation are executed as part of a schedule these contents will continue to be in effect until they are changed by a schedule or browser etc. Therefore, if you are setting a schedule that is only for a particular day, be sure to set your schedule in a way that will not impact on the next day's operation.

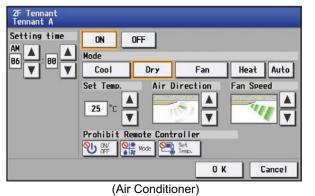
For example, if you wish to prohibit operations being performed from the remote controller after 17:00, set a Prohibit operation for 17:00 and set an Enable operation for 23:59.

(1) Select the item to be set.

As with the weekly schedule setting, select the item to be set. (Refer to 4-3-1 (1).)

(2) Set the contents of the schedule





Г	Refer to 4-3-1 (3) for the figure of LOSSNAY and	т
I	hot water supply equipment.	I
L		Ц

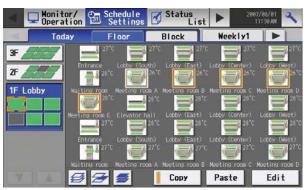
Touch the schedule content button on the current day schedule screen to bring up the schedule content setting screen. Make the settings for the execution time and operation patterns (ON/OFF, operation mode, setting temperature, airflow direction, fan speed, remote controller operation prohibition) on the schedule content setting screen, and then touch the [OK] button. Not all settings need to be made. The settings for only the operation mode or the setting temperature, for example, can be made.

- Note: When setting a schedule for all groups or for a block, it is possible to set all operation modes such as Auto mode etc, but if some targeted air conditioner units do not have such a function, then those units will not run in the specified mode. When setting the schedule, consider what functions are supported by the air conditioner units.
- Note: When setting a schedule for all groups or for a block, it is possible to set prohibit remote controller items individually. When allowing remote controller operation under K control, however, all items must be set enable.
- Note: When setting a schedule for ventilator units, the temperature setting is not displayed. Moreover, the prohibit remote controller operation is simply [ON/OFF].
- Note: Only the ON/OFF operation is possible on the general equipment.

After all the settings have been made, touch the [OK] button to save the schedule settings.

Touch the [Cancel] button to go back to the previously saved settings without making any changes.

#### (3) Copy a schedule to another group



#### (4) Save the contents of schedule

2F Ter Tenna										
Sun	Mon	Tue	e Wee	d Th	u F	-ri	Sat	Сор	y I	Paste
93:08 05:08 12:08 13:08 22:09										
1 0	8:00		Cool	26°C	1	-	•	0 <u>0</u> 1* 0		
2 1	2:00						<mark>%</mark> ل		I	
3 1	3:00		Cool	27°C			Ċ			
4 1	5:00						<mark>%</mark> ტ			
								0 K	Ca	ancel

To copy the settings of the current day schedule in one group to another, select the group from the current day schedule setting screen (Floor layout or block display screen), touch [Copy], select a group to copy the schedule to, and touch [Paste].

- The settings of one type of equipment cannot be copied to the settings of a different type of equipment. (i.e., The settings of air conditioning units cannot be copied to ventilation equipment settings.)
- \* Available operation modes and setting temperature range varies with models.

After all the settings have been made, touch the [OK] button to save the schedule settings.

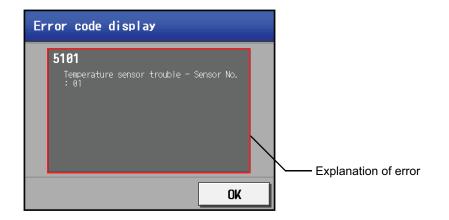
Touch the [Cancel] button to go back to the previously saved settings without making any changes.

**4-4** Checking the List of Malfunctioning Units Touch the [Status list] in the main operation screen menu, and then touch [Malfunction] to see a list of units that are currently in error.

	Monitor/ 🔁 Schedu Setti	ngs 🗹 Status List 🕨	2008/07/24 04:48	
	Malfunction Fil	ter Sign	<b>III</b> 4 <u>A</u> 5、	
Floor name or	Group Name	Address	Error Code	Number of
Block name	1 F Lobby (South)	002	5101	-malfunctioning units
Group name The name of the	2 PF Lobby (Center)	004	5101	The number of malfunctioning
group is displayed here.	3 TF Lobby (West)	005	5101	units is displayed here.
<b>Unit address</b> The unit address is	4 3F Convention hall	013	6608	
displayed here.	5 🖋 3F Hallway	014	6608	— Error code The error code is
				displayed here.
			All Reset	
				— All reset

Item	Description		
All reset	Touch [All Reset] when you want to reset the errors on all the malfunctioning units at once.		
Number of malfunctioning units The number of malfunctioning units is displayed.			
Group Name	<ul><li>The name of the group that the unit in error belongs to appears here.</li><li>Note: If a unit, such as an outdoor unit or system controller, has not been registered in a group that is the object of the operation, this area will be blank.</li></ul>		
Unit address	The address of the unit in error appears here.		
Error code	The error code of the error that is causing the malfunction is displayed. Touch the error code to see the explanation.		

### Error code display



**4-5** Checking the List of Units with a Triggered Filter Sign Touching [Status List] on the Main operation screen and then touching [Filter signs] in the sub menu will bring up a list of units whose filter sign is turned on.

	Monitor/ Schedule Operation Settings	Status List	2007/08/01 11:30 AM	
	Malfunction Filter	sign	🏢 10 🛛 🕂 30	
Floor name or	Group name	Address	Reset	Number of units
Block name	1 TF Lobby Meeting room 1A	001	Reset	with triggered filter signs
Group name The name of the	e of the 2 Meeting room 1A	002	Reset	The number of units with currently triggered filter
group is displayed here.	3 IF Lobby Meeting room 1A	003	Reset	signs is displayed
Unit address	4 1F Lobby Meeting room 1A	004	Reset	Reset units
displayed here.	5 TF Lobby Meeting room 1A	005	Reset	individually Touch to reset the
				filter sign for the group the units
			All reset	belong to.
			<b>└──</b> A	ll reset
			Т	ouch to reset the filter

sign on all units with triggered filter signs.

Item	Description
All reset	Touch [All Reset] when you want to reset the filter sign on all units with a triggered filter sign at once.
Reset units individually	Touch [Reset] when you want to reset the filter sign for the group the units belong to.
Number of units withtriggered filter signs	The number of units with currently triggered filter signs is displayed.
Group Name	The name of the group appears here that contains the unit whose filter sign is turned on.
Unit address	The address of the units with its filter sign turned on appears here.

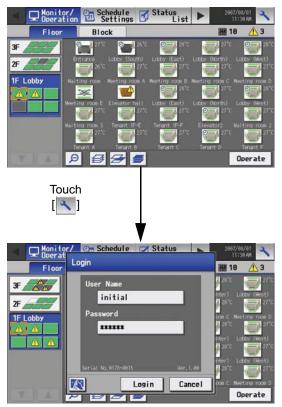
**4-6** Checking the Malfunction Log Touch the [Unit error] in the sub menu under [Log] on the main operation screen to see the unit error history (latest 64 events). Click [Communication error] in the sub menu to see the M-NET transmission error history (latest 64 events).

Unit error log —— Click to display the		Schedule Settings	🗹 Status List 🗹	Log	2007/08/01 11:30 AM	Touch to display
unit error log.		Unit e	rror Com	munication erro	r	the communication error log.
Occurred time —		0ccurred	Address(Detection)	Error code	Recovery	citor log.
The date and time of error is	1	2007-10-10 02:43PM	001 (051)	5010	2007-10-11 10:11AM	Error recovery
displayed here.	2	2007-10-10 11:15AM	002(051)	5010	2007-10-11 10:11AM	date and time The date and time of the error
address The unit address of	3	2007-10-07 11:00PM	003(053)	5010	2007-10-08 10:07AM	recovery is displayed here.
where the error occurred is	4	2007-10-01 00:34PM	004 (053)	5010	2007-10-01 05:56PM	Error code
displayed here.	5	2007-09-24 09:09AM	005 (053)	5010	2007-09-25 08:32AM	The error code of the error is
Error detection				C	lear log	displayed here.
The unit address of where the error was detected is displayed here.						Click to clear the error log.
Item				Descripti	on	

Item	Description
Unit error log	Touch [Unit Error] to display the unit error log.
Communication error log	Touch [Communication Error] to display the M-NET communication error log.
Clear log	Touch [Clear Log] to clear the error log that is being displayed.
Time Occurred	The date and time of when the error occurred is displayed.
Error source address	The unit address of where the error occurred is displayed.
Error detection source address	The unit address of where the error was detected is display.
Error code	The error code of the error is displayed.
Time Recovered	The date and time of the error recovery is displayed.

### 5. Initial Settings

### 5-1 Bringing up the settings screen



Touching the setting change button [] at the right top corner of the main operation screen will bring up the login screen. Enter the user name and password by touching each button, then touch the login button. If the user name and the password are correct, the setting change window will appear.

- \* Use the keyboard that appears to enter user name and password.
- Note: When the power to the AG-150A is turned on for the first time, the Language Selection screen will appear (Refer to section 5-4-2 (4)). Once the display language has been selected, the Date and Time screen will appear (Refer to section 5-2).

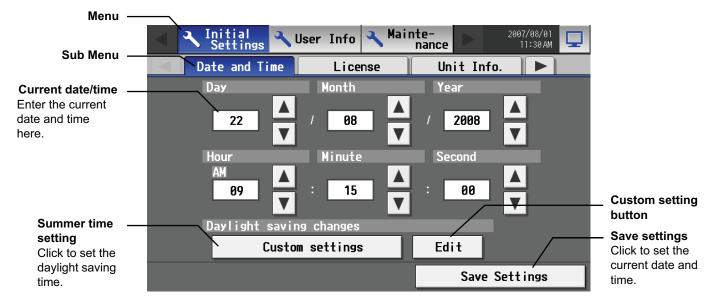
#### 5-2 Setting the Current Date and Time

Touch [Initial settings] on the setting change window, and then touch [Date and Time] on in the sub menu to bring up the date/time setting screen. Enter the date and time, and touch [Save Settings] to save the settings.

\* If the current time is moved forward while the scheduled operation is performed, the operation that was scheduled to take place during the time that was skipped will not be performed.

\* Changing the date and/or time when the charging function is in use can affect the calculation of the charges.

Note: If the user logs in as a building manager, some of the operations may be prohibited.



Item	Description
Current date/time	Use the up/down buttons to set the date and time.
Summer time setting	This button is used to set Daylight Saving Time. Select your country from the list of countries that appears when this button is touched. Select [] when this function is not used. To enter a country name that is not on the list, select [Custom settings] and manually enter the country name.
Custom setting	Set the beginning and the ending date/time of the daylight saving time if [Custom settings] is selected to manually enter a country name.
Save Settings	Touch the [Date/Time Set] button to set the current date and time.

#### 5-3 Register the license

	Settings 🔧 User Info 🔧 Mainte- nance > 2007/08/01	
	Date and Time License Unit Info.	
	Selecting Optional Function	<ul> <li>Trial button</li> </ul>
	(a)Web Monitor Trial	
	Current Status	<ul> <li>Selecting Optional Function button</li> </ul>
	Available	
	Registration of License Number	
License number		<ul> <li>Register the license button</li> </ul>
input button	The license has been registered.	license bullon
	Register the license	

This section describes how to register the license for the optional functions. Touch [Initial Settings] on the menu bar in the setting change window, and then touch [License] in the sub menu to bring up the license registration screen.

Select the optional functions to be used by touching the [Selecting Optional Function] button, touch the [License number input button], and enter the license number. The optional functions will be added if the entered registration number matches the registered number when [Register the license] is touched.

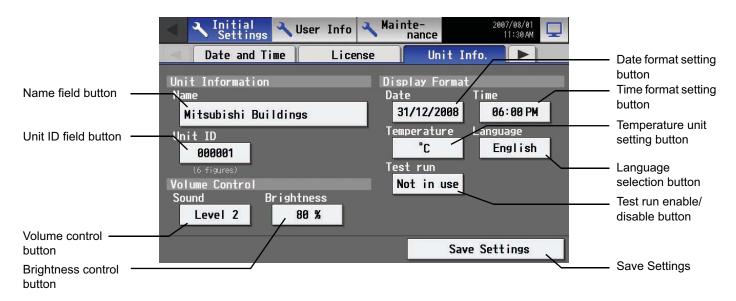
If this fails, check that the license number is entered correctly, that the selection of the optional functions are made properly, and that the time/date settings on AG-150A is set correctly.

Consult your dealer for the availability of optional functions and for how to purchase the license for them.

Click the "Trial" button to register a one-day license that is valid for one day from the time the button is clicked. (Web Monitor License Only)

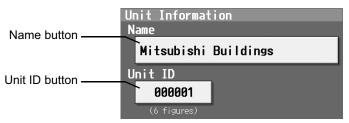
#### 5-4 Setting the Basic Information

Touch the [Unit Info.] tab in the screen that appears when [Initial Settings] on the menu bar in the setting change window is touched to open the Unit Info setting window and make the basic settings for AG-150A such as its name and display options. Note: If the user logs in as a building manager, the operations may be prohibited.



#### 5-4-1 Unit Setting

Information about the unit is entered on the window below.



- Press the [Name] button and enter the name for AG-150A in 40 characters or less. The name set here is used on the display screen of the software that controls multiple AG-150A units and for the name of the sender in the body of error messages.
   Note: The following characters cannot be used in the name: < > & " '
- (2) Press the [Unit ID] button and enter the ID number for AG-150A in six numerical characters (single byte) or less. Use this setting when you want to control multiple AG-150A units with unit IDs. The unit ID that is entered here will be used on the display screen of the software that controls multiple AG-150A units and for the sender ID in the body of error messages.
- (3) Press [Save settings] on the Unit Info window to save the settings.

#### 5-4-2 Setting the Display Format

Data, time, temperature, and language are set on the window below.

	Date button
Display Format Date Time	Time button
31/12/200806:00 PMTemperatureLanguage	Temperature button
°C English	Language button
Test run <b>Not in use</b>	
	——— Test run enable/disable button

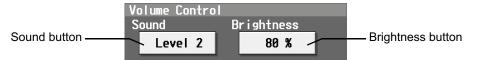
- (1) Select the date format. Each touching of the button allows you to cycle through the following options: [31/12/yyyy][12/31/yyyy][yyyy/ 12/31]. Current year will appear in "yyyy." (e.g., December 31st, 2009 will appear as 31/12/2009.) The date will be displayed in the selected order on the screen or on the mail screen.
- (2) Set the time format. (24 hr [18:00] or 12 hr [06:00 PM]) Each touching of the button switches between [18:00] and [06:00 PM].
- (3) In the [Temperature] section, select between [°C] and [°F] as the unit of temperature. Each touching of the button switches between [°F] and [°C].
- (4) Press the language selection button to bring up the [Language selection screen], and the selected language will appear.

Englis	h Esr	pañol
	0 K	Cancel

- (5) Enables/disables the test run function. Touching the button toggles between [Not in use] and [In use].
- (6) Press [Save setting] on the Unit info window to save the setting.

#### 5-4-3 Adjusting the sound volume and screen brightness

Sound volume and screen brightness are adjusted on this window.



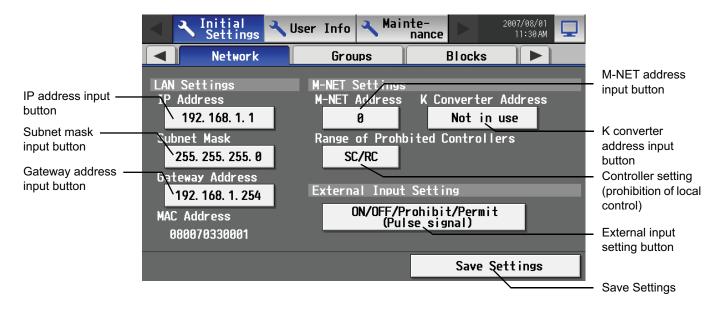
- (1) Each touching of the sound volume control button cycles through the following: [Level 0], [Level 1], [Level 2], and [Level 3]. Although the change made in sound volume is reflected right away, it will not be saved until the [Save setting] button is touched. Even if the setting is changed, if the user exits the window without touching the [Save setting] button, the volume setting will go back to the previous setting.
- (2) Each touching of the brightness control button cycles through the following: [70 %], [80 %], [90 %], and [100 %]. Although the change made in brightness is reflected right away, it will not be saved until the [Save setting] button is touched. Even if the setting is changed, if the user exits the window without touching the [Save setting] button, the brightness setting will go back to the previous setting.
- (3) Press [Save setting] on the Unit info window to save the setting.

#### 5-5 Network Setting

Touch the [Network] tab in the screen that appears when [Initial Settings] on the menu bar in the setting change window is touched to open the network setting window and make the basic settings for LAN and M-NET.

Note: If the user logs in as a building manager, some of the operations may be prohibited.

Note: When changes are made to the settings, restart the AG-150A before going back to the main menu to reflect the those changes.



#### 5-5-1 LAN setting

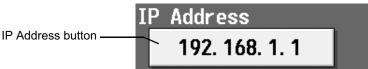
In Network Setting, set the AG-150A IP address, subnet mask and gateway address. If connecting to the AG-150A via a permanent LAN, consult with the network administrator before setting these addresses.

#### Settings for when the AG-150A is connected to a dedicated LAN 5-5-1-1

(1) Set the IP address for AG-150A. Enter the IP address on the keyboard that appears when the IP address input button is touched. If the LAN wiring has been newly set up, allocate IP addresses to the AG-150A units in a sequential order starting with [192.168.1.1]. For example the first AG-150A unit will receive an IP address of [192.168.1.1], the second AG-150A unit will receive an IP address of [192.168.1.2] and so on.

The Web Monitor PC that monitors and sets AG-150A will also require network addresses consistent with the rest of the LAN. Note: When using a AG-150A dedicated LAN, it is recommended to set the IP address as follows.

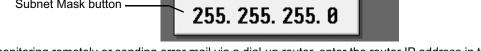
AG-150A: Between [192.168.1.1] and [192.168.1.40] Web Monitor PC: Between [192.168.1.101] and [192.168.1.150]



ubnet

(2) Set the subnet mask. Enter the subnet mask address for the AG-150A on the keyboard that appears when the subnet mask input button is touched. Normally, you should enter [255.255.255.0].

Subnet Mask button



Mask

- (3) When monitoring remotely or sending error mail via a dial-up router, enter the router IP address in the [Gateway] field. Leave the gateway address blank when not connecting via a dial-up router.
  - Note: It is recommended to set the dial-up router IP address to [192.168.1.254]. Refer to the dial-up router instruction manual for details of how to set the IP address.
  - Note: It is necessary to connect a modem (analog type or ISDN type) between the dial-up router and telephone line when using a dial-up router that does not have a built-in modem.



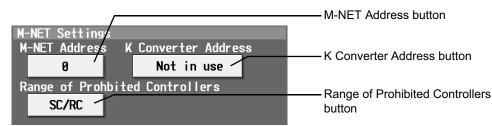
(4) Press [Save setting] on the network window to save the setting.

#### 5-5-1-2 Settings for when the AG-150A is connected to an existing LAN

When connecting the AG-150A to an existing LAN, consult with the network administrator who is responsible for the LAN before setting the IP address, subnet mask, or gateway address.

## 5-5-2 M-NET Setting

In M-NET Setting, set the AG-150A M-NET address, whether or not a K-Control unit is present and which machines send the prohibited controller command.



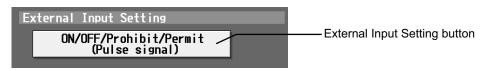
- (1) Enter the AG-150A M-NET address in the [M-NET Address] field. Normally you should enter [0].
- (2) When K-Control air conditioners are connected, enter the M-NET address of K transmission converter in the [K Converter Address] field.
- (3) If prohibited controller (prohibiting local operation) has been set, this setting determines the scope of this setting s control, i.e. operation is prohibited for both the remote control and subordinate system controllers, or just for the remote control. Click [SC/RC] when you want prohibited controllers to include both subordinate system controllers and the remote control, or touch [RC only] when you only want to prohibit operation on the remote control. Note: Normally, you should select [SC/RC].
- (4) Press [Save setting] on the network window to save the setting.

#### 5-5-3 External input Setting

The external input function allows for a batch operation (start/stop) of the air conditioning units that are connected to the AG-150A via the external input/output adaptor (PAC-YG10HA; sold separately), using contact and pulse signals.

Pressing the "External Input Setting" button toggles through the following options: Not in use, Emergency Stop (Level signal), ON/OFF (Level signal), and ON/OFF/Prohibit/Permit (Pulse signal).

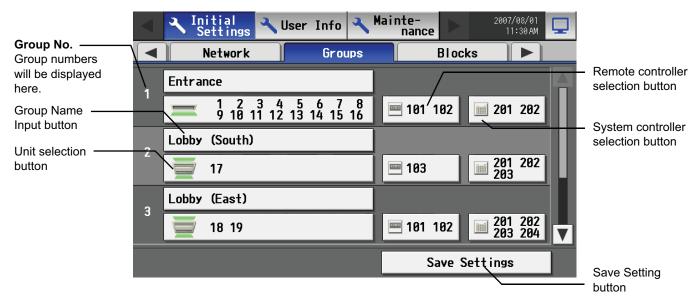
\* See Chapter 8 for detailed explanations on how to connect external devices.



## 5-6 Group Setting

Touch the [Groups] tab in the screen that appears when [Initial Settings] on the menu bar in the setting change window is touched to open the group setting window and set and register the group names for the air conditioning units or general equipment to be connected to AG-150A. Note: If the user logs in as a building manager, some of the operations may be prohibited.

- Note: If the system is connected to the TG-2000A, make all settings and changes from the TG-2000A so that the data in TG-2000A and AG-150A will match.
- Note: A contact on the genera interface device is regarded as one unit. The number of units that can be connected to AG-150A is up to 50. Note: Air-conditioners and general equipment cannot be in the same group.
- Note: Remote controllers or system controllers cannot be connected to general equipment.



## 5-6-1 Setting the Group Name

Press the Group name input button, and enter the group name on the keyboard that appears in 20 characters or less. Note: The following characters cannot be used in the group name: < > & " '

### 5-6-2 Registering air conditioner units in the group

(1) To register air conditioning units, select the unit selection button of the group to which the air conditioning units will be assigned. Touch the model selection button on the window that appears to display air conditioning units. Then touch the numbers that are assigned to the units to register. An orange frame will appear around the units that are selected.

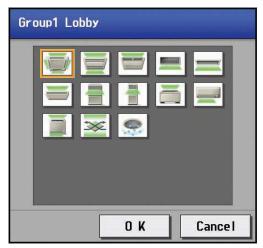
Click again to deselect the selected item (no orange frame).

Press the [OK] button to save the changes, or touch the [Cancel] button to go back to the previous screen without saving any changes.

- Note: A maximum of 16 air conditioner units can be registered in one group.
- Note: To change the registered units to air-conditioners in the group in which general equipment is registered, disconnect the general equipment first.

Model selection ——	Group1 Lobby										_	— Unit selection
button	Model	Unit	Addre	ess						/		button
Icon selection	Air-conditioners	1	2	3	4	5	6	7	8	9	10	
button	Xcon	11	12	13	14	15	16	17	18	19	20	
		21	22	23	24	25	26	27	28	29	30	
		31	32	33	34	35	36	37	38	39	40	
		41	42	43	44	45	46	47	48	49	50	
										_		
						[	0	ĸ		Cano	e l	

(2) To change the icons, touch the icon selection button, and select the desired icon from the ones that appear.



(3) To register a remote controller to a group, touch the remote controller selection button to bring up the remote controller selection window, and then touch the numbers that are assigned to the units to resister. An orange frame will appear around the selected items. Click again to deselect the selected items. Click again to deselect the selected item (no orange frame). Press the [OK] button to save the changes, or touch the [Cancel] button to go back to the previous screen without saving any changes. Note: A maximum of 2 remote controllers can be registered in one group.

Note: MA remote controllers do not need to be registered to a group.

- \* Only one remote controller can be connected to a system to which three system controllers are connected. No remote controllers can be connected to a system to which four system controllers are connected. (The maximum connectable number is four including system controllers.)
- \* The remote controllers that are registered to another group will be grayed out and not available for selection.

Gro	oup1 Lobb	עו						
	Remote	Controll	er					
	101 10	2 103 1	04 105	106 107	108	109 1	10	
	111 11	2 113 1	14 115	116 117	118	119 1	20	
	121 12	2 123 1	24 125	126 127	128	129 1	30	
	131 13	2 133 1	34 135	136 137	138	139 14	40	
	141 14	2 143 1	44 145	146 147	148	149 1	50 🔻	
	_		_					
					0 K		Cancel	

- (4) To register a system controller to a group, touch the system controller selection button to bring up the system controller selection window, and then touch the numbers that are assigned to the unit to resister. An orange frame will appear around the selected items. Click again to deselect the selected items. Click again to deselect the selected item (no orange frame). Press the [OK] button to save the changes, or touch the [Cancel] button to go back to the previous screen without saving any changes. Note: The combined number of system controllers and remote controls cannot exceed four.
  - Note: K-transmission converters do not need to be registered.

Gro	oup1 l	_obby										
	Sys <sup>.</sup>	tem C	ontro	oller								
	0	201	202	203	204	205	206	207	208	209	210	
		211	212	213	214	215	216	217	218	219	220	
		221	222	223	224	225	226	227	228	229	230	
		231	232	233	234	235	236	237	238	239	240	
		241	242	243	244	245	246	247	248	249	250	
				_	_	_				_		
								0	к		Cance	

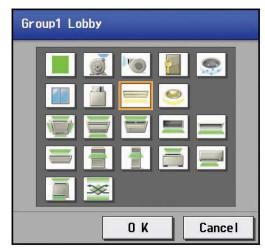
(5) Press [Save setting] on the group setting window to save the settings.

## 5-6-3 Registering general equipment in the group

- (1) To register general equipment, touch the unit selection button of the group to set. Select [General equipment (via PAC-YG66DCA)] on the window that appears to bring up the general equipment registration window. Next, touch the unit number of the general interface (PAC-YG66DCA) that is connected to the general equipment to be registered. (A yellow green frame will appear around the selected items.) Select the contact number to which the general equipment is connected, and touch the number assigned to another unit to register the first selected item to the group (The yellow green frame will change to an orange frame.) The item with a yellow green frame is the currently selected unit, and the ones with an orange frame are the units that are already registered to a group. To cancel the connection, select the unit number and touch the selected contact number to deselect it (no orange frame). Press the [OK] button to save the changes, or touch the [Cancel] button to go back to the previous screen without saving any changes. Note: A maximum of 16 general equipment can be registered in one group.
  - Note: To change the registered units to general equipment in the group in which air-conditioners are registered, disconnect the airconditioners first.

	Group1 Lobby											Unit selection
	Model	Unit	Addre	ess						/		button
	General equipment (via PAC-YG66DCA)	1	2	3	4	5	6	7	8	9	10	
	Icon	11	12	13	14	15	16	17	18	19	20	
<b>.</b>		21	22	23	24	25	26	27	28	29	30	
General equipment – operation setting	Operations	31	32	33	34	35	36	37	38	39	40	
button	In batch and on individual group	41	42	43	44	45	46	47	48	49	50	Contact point
General equipment –	Honitor	Cont	act l	Point	s							selection button
display setting button	Output status	1	2	ŝ	4	5	6					
						ļ	0	К		Cano	cel	

(2) To change the icons, touch the icon selection button, and select the desired icon from the ones that appear.



(3) In the [Allow Operation] section, select whether to enable or disable the ON/OFF operation on the Web browser or on the TG-2000A operation screen. Select [In batch and on individual group] to enable only when the collective operation is performed. Select [On individual group] to enable in each group. Select [No operation (Monitor only)] to disable.

	Operations
General equipment operation setting button	In batch and on individual group

(4) In the [Monitor] section, select whether to display I/P to or from the general equipment on the monitor screen.

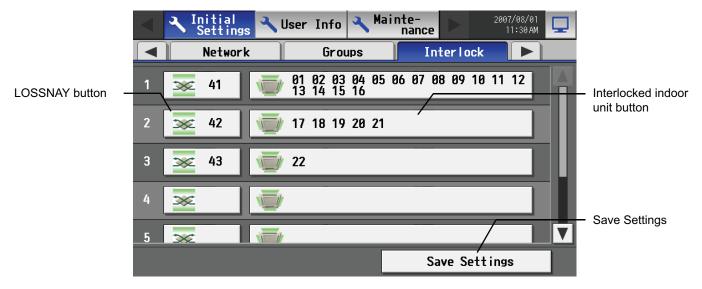
	Monitor
General equipment display setting button	Output status

(5) Press the [Save setting] on the group setting window to save the settings.

## 5-7 Interlocked Setting

To interlock the ON/OFF operation of LOSSNAY and indoor units, touch [Interlock] on the window that appears when [Initial Settings] on the menu bar in the setting change window is touched, and make the interlock settings.

- Note: If the user logs in as a building manager, the operations may be prohibited.
- Note: If the system is connected to the TG-2000A, make all settings and changes from the TG-2000A so that the data in TG-2000A and AG-150A will match.



(1) To make the interlock setting for a LOSSNAY, first, touch the LOSSNAY button to bring up the LOSSNAY selection window. Touch the number assigned to the unit to be registered to select it. An orange frame will appear around the selected items. Click again to deselect the selected item (no orange frame). Press the [OK] button to save the changes, or touch the [Cancel] button to go back to the previous screen without saving any changes.

	_	_	_	_	_	_	_	_	_	
Inter	locke	d LOS	SSNAY							
1	2	3	4	5	6	7	8	9	10	
11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	
31	32	33	34	35	36	37	38	39	40	
41	42	43	44	45	46	47	48	49	50	
				_	_				[	
							0 K		Cano	e l

(2) Touch the Interlocked indoor unit button to bring up the interlocked indoor unit selection window, and touch the number assigned to the unit to register. An orange frame will appear around the selected items. Click again to deselect the selected items. Click again to deselect the selected item (no orange frame). Press the [OK] button to save the changes, or touch the [Cancel] button to go back to the previous screen without saving any changes.

Note: A maximum of 16 indoor units can be registered to operate with one ventilator.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

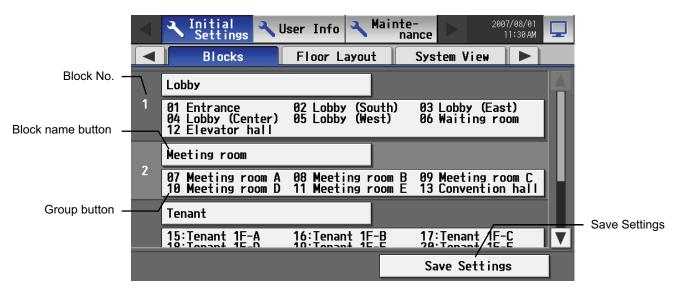
(3) Press the [Save setting] on the LOSSNAY interlock setting window to save the settings.

## 5-8 Block Setting

To perform a batch monitoring/control of multiple air conditioning unit groups, the groups need to be registered to a block. Touch [Blocks] on the window that appears when [Initial Settings] on the menu bar in the setting change window to register groups to a block. \* Although not shown on the LCD, blocks are used as a unit of control for energy-saving and peak-cut control.

Note: If the user logs in as a building manager, some of the operations may be prohibited.

Note: If the system is connected to the TG-2000A, make all settings and changes from the TG-2000A so that the data in TG-2000A and AG-150A will match.



#### 5-8-1 Setting a block name

Touch the block name button, and enter the block name on the keyboard that appears in 20 characters or less. Press [Save setting] on the block setting window to save the settings.

Note: The following characters cannot be used in the group name: < > & " '

## 5-8-2 Registering a group in a block

Click on the number of the group to register on the group selection window that appears when the group button is touched. An orange frame will appear around the selected item. (The name of the group that was touched last will appear.) Touch the selected item again to deselect it (no orange frame).

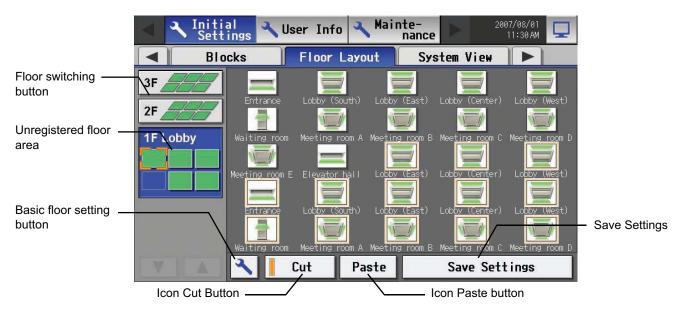
Blo	ck1 Lot	by	_								_
	Group1	2 EI	evato	or ha	11						
	1	2	3	4	5	6	7	8	9	10	
	11	12	13	14	15	16	17	18	19	20	
	21	22	23	24	25	26	27	28	29	30	
	31	32	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	49	50	
								0 K		Cance	21

Press [Save setting] on the block setting window to save the settings.

## 5-9 Floor Layout Setting

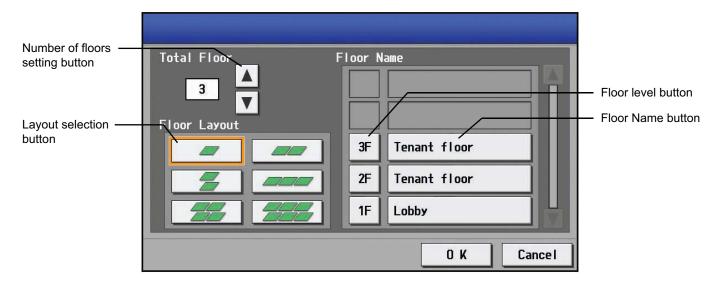
To change the floor layout on the main operation screen or to change the display position of the groups on the floor, touch the [Floor layout] tab in the setting change window.

Note: If the user logs in as a building manager, some of the operations may be prohibited.

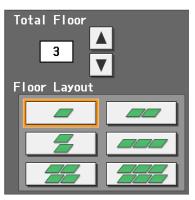


### 5-9-1 Making the floor settings

Touch the basic floor setting button to bring up the basic floor setting window.



## (1) Changing the floor layout display



(2) Changing the floor level name or floor name



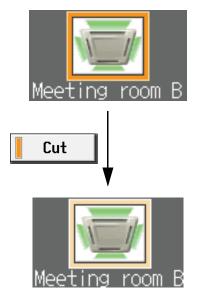
Select the total number of floors on the basic floor setting window with the up/down arrow buttons, and select the desired type of floor layout. Not all types of floor layouts may not be available, depending on the number of floors.

- \* No. of floors = 0: No layouts are selectable. (allocated in the unregistered floor area)
- \* No. of floors = 1: [2 row×1 column][1×2][3×1][2×2][3×2]
- \* No. of floors = 2-3: [1 row×1 column][2×1][1×2][3×1][2×2][3×2]
- \* No. of floors = 4-5: [1 row×1 column][2×1][1×2][3×1][2×2] are selectable.
- \* No. of floors = 6-8: [1 row×1 column][2×1][1×2] are selectable
- \* No. of floors = 9-10: [1 row×1 column] are selectable
- \* When a floor is deleted, the icons on the floor will be moved to the bottom floor. If part of the floor is deleted, the icons on the deleted area will be moved to the floor located at the top left of the original floor.
- \* The default layout consists of two rows and one column.

Press the floor name button on the basic floor setting window, and enter the floor name in three characters or less.

Press the floor name button and enter the floor name in 20 characters or less.

### 5-9-2 Changing the display position of the groups



To move a group to another floor, first, select the group to be moved on the floor layout setting window. (An orange window will appear around the selected item.)

\* Groups that have been registered but not assigned a position will be placed in the left top area of the bottom floor in the order of the group number. (If the number of these groups exceeds the maximum number of displayable groups, they will be placed on the floor next to the floor on its right.)

Next, touch the [Cut] button (A pale orange frame will appear around the selected item.), select the floor to move the icon to, and touch [Paste] button. The selected group to be moved will be moved to the floor to move to.

To cancel, touch the paste button on the same floor as where the cut button was touched. (The orange frame will disappear.) Press [Save setting] to save the changes.

\* If you try to exit the window without saving the changes by touching the menu bar or the tabs, a popup window will appear, alerting you that the changes have not been saved. If you exit the window without saving the changes, these changes will not be reflected.

## 5-10 Checking the refrigerant systems

To see the list of refrigerant systems connected to AG-150A (connection information of outdoor and indoor units), touch [System view] on the window that appears when [Initial Settings] on the setting change window is touched and bring up the refrigerant system display window.

	A Initial Settings	er Info 🔧 Mainte- nance > 2007/08/01 11:30 AM	
	Blocks	Floor Layout 🛛 System View 🕨	
	Outdoor Unit (Sub unit)	Indoor Unit	
Outdoor Unit (Sub Unit)	51 (52)	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Indoor Unit
	81 (82)	31 32 33 34 35	
	86 (87 88 89 90 91)	36 37 38 39 40 41	
	92 (93)	42 43	
	94 (95)	44 45	▼

Item	Description
Outdoor Unit	The numbers assigned to the outdoor units. (The numbers in the parentheses indicate the unit number of the connected sub units.)
Indoor Unit	The numbers assigned to the indoor units that are connected to the outdoor unit on the same row.

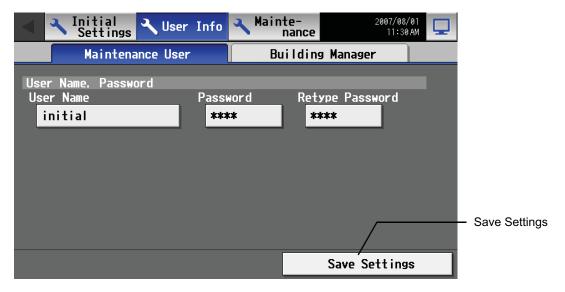
# 6. User Setting

Touch [User Info] on the menu bar in the setting change window to jump to the user setting window.

## 6-1 Setting the Maintenance User

To change the Maintenance User name and/or password, touch [Maintenance User] on the window that appears when [User Info] is touched on the setting change window.

\* This window cannot be accessed when logged in as the Maintenance User.



(1) Changing the maintenance user name

To change the maintenance user name, touch the user name input button, and enter the user name on the keyboard that appears in 20 characters or less.

#### (2) Changing the password

To change the maintenance user password, touch the password input button, and enter the password that is between 3 and 10 character long on the keyboard that appears. Press Retype Password, and enter the same password again.

\* On the screen, password will appear as asterisks with each \* representing a character.

Press the [Save setting] button to reflect the new user name and password.

User Name, Password		
User Name	Password	Retype Password
initial	****	****

## 6-2 Setting the Building Manager

To change the Building Manager name and/or password, or enable/disable functions, touch [Building Manager User] on the window that appears when [User Info] is touched on the setting change window.

Note: If the user logs in as a building manager, the present status can be checked, but cannot be changed.

A Nitial Settings Voer I	nfo Nainte- 2007/08. nance 11:30	
Maintenance User	Building Manager	
User Name, Password		
	assword Retype Password	
administrator	****	
Available Functions		
Initial Settings		
Date and Time		
Unit Info	Network	
		Save Settings
Groups	Groups (Group Structure)	
	Save Settings	

### (1) Changing the building manager name

To change the building manager name, touch the user name input button, and enter the user name on the keyboard that appears in 20 characters or less.

(2) Changing the password

To change the building manager password, touch the password input button, and enter the password that is between 3 and 10 character long on the keyboard that appears. Press Retype Password, and enter the same password again.

\* On the screen, password will appear as asterisks with each \* representing a character.

Press the [Save setting] button to reflect the new user name and password.

User Name, Password		
User Name	Password	Retype Password
administrator	****	****

### (3) Making the settings for available functions

Touch the function to enable the function (An orange frame will appear around the selected item), or touch the selected item again to deselect it (no orange frame). Press the [Save setting] button to save the changes.

Available Functions Initial Settings	
Date and Time	
Unit Info	Network
Groups (Group Name)	Groups (Group Structure)

#### Table Available Function List

Function			Content
Date and time		Current date and time setting	
	Basic system <sup>*1</sup>		AG-150A network setting, external output setting
	Group structure controllers and general equ	Group name setting	
Initial setting		Group structure <sup>*1</sup> Connection setting of indoor units, remote controllers, system controllers and general equipment in a group	
	Interlocked LOSSNAY <sup>*1</sup>		Connection setting of interlocked LOSSNAY
	Blocks	Block name	Block name setting
	DIUCKS	Block structure <sup>*1</sup>	Registration setting of groups in a block
	Elect avout	Floor name	Floor name setting
	Floor Layout Floor configuration		Floor configuration setting

\*1: At factory shipment, the operation of the building manager is prohibited.

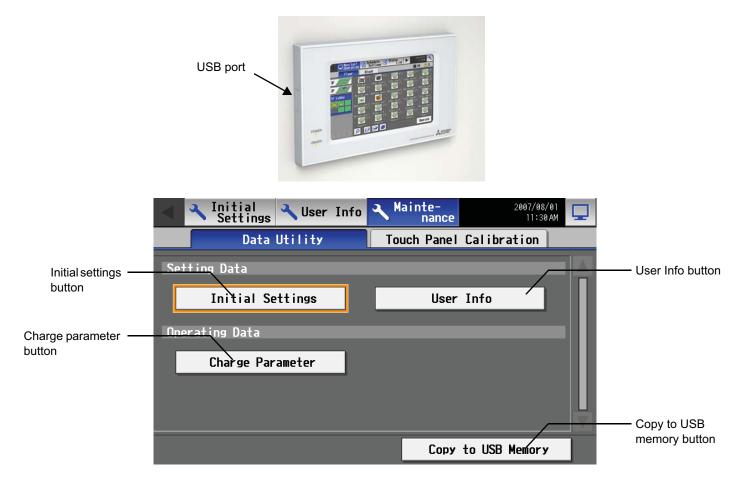
# 7. Maintenance screen

# 7-1 Copying the data to a USB drive

Note: Use the following types of USB memory.

- a: Manufacturer : Sandisk Model : SDCZ6-2048-J65RB Memory Size: 2G
- b: Manufacturer : Kingston Model : DT400/2GBFE Memory Size: 2G

To copy the data to a USB drive, plug the USB into a USB port, and touch [Data Utility] in the screen that appears when [Maintenance] on the setting change screen is touched.

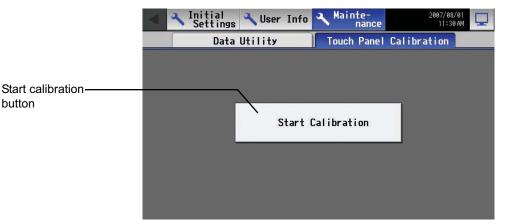


Item		Description
Setting data	Initial settings	Touch the button to select, and touch again to deselect. With the button selected, touch the [Copy to USB Memory] button to copy all settings data (except the AG-150A user information), to the \[Serial Number]\[SettingData]\ folder in the root folder of the USB memory. If the folder does not already exist, one will be created. * The type of settings that cannot be set on the LCD screen, such as the energy-save setting data, will also be copied.
	User Info	Touch the button to select, and touch again to deselect. With the button selected, touch the [Copy to USB Memory] button to copy the AG-150A user information to the \[Serial Number]\[Settings]\ folder in the root folder of the USB memory. If the folder does not already exist, one will be created. * Only the maintenance users have the copy privilege.
Operating data	Charge parameter	Touch the button to select, and touch again to deselect. With the button selected, touch the [Copy to USB Memory] button to copy the charge parameter data to the \[Serial Number]\[SettingData]\ folder in the root folder of the USB memory in the CSV format. If the folder does not already exist, one will be created.
Copy to USB memory		With the Setting Data, User Info, or Charge Parameter button selected, touch this button to copy the selected settings to the USB memory.

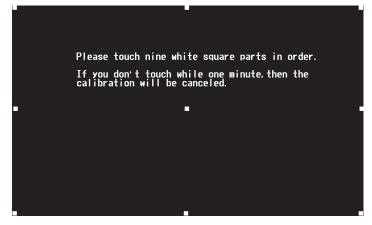
## 7-2 Adjusting the touch panel

To adjust the touch panel, touch [Maintenance] on the setting change screen and then [Touch Panel Calibration] to bring up the Touch Panel Calibration screen.

Note: The use of any commercially available touch pen is recommended.



The touch panel calibration screen will appear when the [Start Calibration] button is touched.

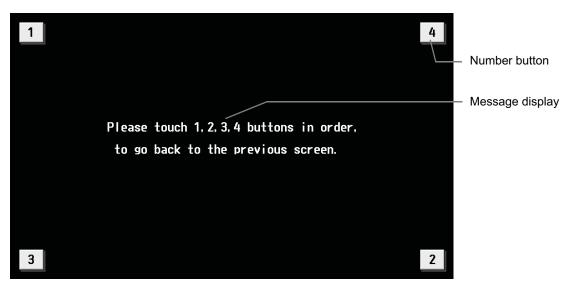


A white "5 dots × 5 dots" square will appear in the screen in the following order: left top, center top, right top, left middle, center, right middle, left bottom, center bottom, and right bottom. Every time the square is touched, the next square will appear. When all nine squares are touched, calibration is complete, and the display will return to the touch panel calibration screen. If the screen is left untouched for one minute, the display will automatically return to the calibration screen, and this step needs to be started over. \* The screen may not be calibrated properly if touched with a finger. Use a pointy but not sharp object to touch the screen.

\* A sharp object may damage or scratch the screen.

# 8. Cleaning the touch panel

To clean the touch panel surface, first touch the [Setting Change Button] on the main operation screen and bring up the login screen, then touch the Clean touch panel button to bring up the screen below. Clean the touch panel with this screen being displayed. \* Please use dry cloth or soft cloth with neutral detergent (after wring dry) or one with Ethanol when cleaning. Do not use any organic solvent acid or alkali solution.



Item	Description	
Number	Pressing the buttons 1 through 4 in the ascending order will take the screen back to the original screen (main operation screen). To go back to the previous screen, these buttons must be touched in the correct order starting with button 1. Touching the buttons in the wrong order will cancel all previous touching of buttons.	
Message	"Please touch the 1, 2, 3, 4, buttons in order, to go back to the previous screen." will be displayed.	

# 9. External input/output function

• External signal input requires the external I/O adapter (Model: PAC-YG10HA-E) sold separately.

Refer to Instalation Manual for detail.

## 9-1 External input function

## (1) The function of external input

Touch [Initial Settings] on the menu bar in the setting change window, then [Network setting] to bring up the network settings window. Touch [External Input Setting], and make the settings.

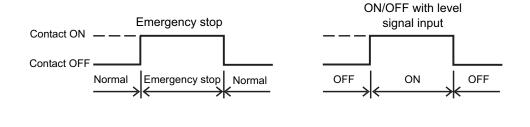
External	Input	Setting	
ON/OFF/Prohibit/Permit (Pulse signal)			
	(Pul	se signal)	

• The type of external input function can be selected by making certain settings.

No.	Function of external input signal	Remarks
1	External input signal not used	-
2	Perform emergency stop with level signal	During emergency stop, only ON/OFF of the centralized controller and local remote controller's operation will be prohibit.
3	Perform ON/OFF operation with level signal	Only the ON/OFF operation of the centralized controller and the local remote controller will be prohibit.
4	Perform ON/OFF operation, prohibit/permit operation with pulse signal	Set the pulse width while the contact is ON between 0.5 and 1.0 second.

(2) Input signal

1 Level signal

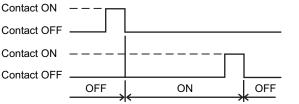


2 Pulse signal

(Example) ON/OFF

Signal 1 (ON)

Signal 2 (OFF)



- \* Set the pulse width to a value between 0.5 and 1.0 second.
- \* Applicable also to the input signal that prohibits/permits operation.

## (3) Specification of external input interface

CN5	Lead wire	Emergency stop/normal level signal	ON/OFF level signal	ON/OFF, prohibit/permit pulse signal
No.5	Orange	Emergency stop/normal input	ON/OFF input	ON input
No.6	Yellow	Not used	Not used	OFF input
No.7	Blue	Not used	Not used	Local remote controller prohibit input
No.8	Gray	Not used	Not used	Local remote controller permit input
No.9	Red	External DC source "+12VDC" or "+24VDC"		

Notes	<ul> <li>Using level signals</li> <li>While the Emergency stop contact is ON, operation from both the controller and local remote controller (ON/OFF only) is prohibited. After the emergency stop is cancelled, air conditioning units will remain stopped, and they will require manual operation if they need to be started back up.</li> <li>When level signals are used for ON/OFF, operation from both the controller and local remote controller (ON/OFF only) is prohibited at all times.</li> <li>Using pulse signals</li> </ul>
	<ul> <li>If the operation signal is received during operation, air conditioning units will remain in operation. (The same is applicable to OFF/Prohibit/Permit.)</li> <li>When pulse signals are used, change of ON/OFF, operation mode, temperature setting, filter sign reset settings will be prohibited from the remote controller.</li> </ul>

## 9-2 External output function

(1) The function of external output

- The "ON" signal is output when one or more air conditioner are in the ON operation.
- The "Malfunction" signal is output when one or more air conditioner malfunctions.

(2) Specification of external output interface

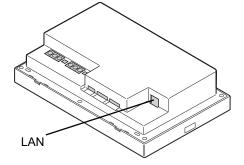
CN5	Lead wire	Description of each terminal
No.1	Green	Common (External ground)
No.2	Black	ON/OFF
No.3	Brown	Malfunction/Normal

## 9-3 LAN connection function

When using the LAN connection function, connect the LAN cable to the LAN connector of this device.

- \* Procure the LAN cable at the site, and use 100 BASE-TX Straight cable.
- \* For a description of the IP address setting method, refer to section 5 Initial Settings.
- \* LAN is 100 BASE-TX Specification.

Use a security device such as a router when connecting to	
the Internet.	



# **10.Specifications**

Item	Specification		
Power supply	M-NET Terminal	17VDC~32VDC	* PAC-SC51KUA supplies the power.
	Controller drive	24VDC	
Temperature	Operating	0 ~ 40°C [32~104°F]	
	Non operating	-20 ~ 60°C [-4~140°F]	
Humidity	30 ~ 90 %RH (No condensation)		
Weight	2.1kg [4.6 lb]		
Dimensions (W × H × D)	300 × 185 × 70.3 [25.6] mm 11- <sup>13</sup> / <sub>16</sub> × 7- <sup>5</sup> / <sub>16</sub> × 2- <sup>13</sup> / <sub>16</sub> [1- <sup>1</sup> / <sub>16</sub> ] in *[]: indicate the thickness from the wall.		

This product is designed and intended for use in the residential, commercial and light-industrial environment.

This product at hand is based on the following EU regulations: Low Voltage Directive 2006/95/EC
Electromagnetic Compatibility Directive 2004/108/EC

#### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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