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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI G-50A. You'll find the answers to all your questions on the MITSUBISHI G-50A in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

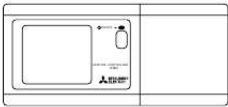
**User manual MITSUBISHI G-50A**  
**User guide MITSUBISHI G-50A**  
**Operating instructions MITSUBISHI G-50A**  
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**Instruction manual MITSUBISHI G-50A**

**Mitsubishi Electric Air-conditioner Network System**

## Central Controller

**Model: G-50A** *Instruction Book*



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Before using the controller, please read this Instruction Book carefully to ensure correct operation. Store this Instruction Book in a location that is easy to find.



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you have read this manual, always observe the procedures described in the explanations and store it with the installation manual in a location that is easy to find. If the controller is going to be operated by another person, make sure that this manual is given to them.

Symbols and Terms **WARNING** Statements identify condition or practices that could result in personal injury or loss of life. **CAUTION** Statements identify condition or practices that could result in damage to the controller or other property. **Specific Precautions WARNING** · Ask your dealer or technical representative to install. If incorrect installation is done by a customer, it may cause an electric shock, fire, etc. · Do not move and re-install the controller by yourself.

If installation is incorrect, it may cause an electric shock, fire, etc. Ask your dealer or technical representative. · Securely install in a place which can withstand the weight of the controller. If it is not enough, the controller may fall and cause an injury. · Contact your dealer if the controller will not be used any more or will be scrapped. · Do not remodel or repair by yourself. If the controller is redesigned or repair is not correct, it may cause an electric shock, fire, etc. Consult your dealer if repair is necessary. · Make sure that the controller is connected to a rated power supply. If the controller is not connected to a rated power supply, it may cause a fire or damage to the controller.

· Stop the operation immediately and notify your dealer if an error code is displayed or malfunction occurs. Fire or damage may be caused if the controller is operated in this condition. · Never remove the cover during operation. Touching the charged parts of the controller may cause severe burns or other personal injury. · Stop the operation if any malfunction occurs. If malfunction occurs (burning smell, etc.) stop the operation and turn off the power supply. Contact your dealer or technical representative immediately. If the controller continues to operate after a malfunction occurs, this may cause damage, electric shock or fire. **CAUTION** · Do not install the controller in a place where inflammable gas could leak.

If gas leaks and collects around the controller, it may cause a fire or explosion. · Do not use the controller in special environments. The performance may be reduced or parts may be damaged if the controller is used in locations subject to large quantities of oil (including machine oil), steam, sulfide gas. · Do not wash the controller with water. It may cause an electric shock or malfunction.

· Do not touch the switches with sharp objects. It may cause an electric shock or malfunction. · Do not touch the switch with wet hands. It may cause an electric shock. · Operate the controller within the specified temperature range.

Observe the specified temperature range when operating the controller. If the controller is used outside the specified temperature range, it may cause serious damage. Be sure to check the operation temperature range in the operation manual. · Do not use the controller for special applications. This product is designed for use with the **MITSUBISHI ELECTRIC BUILDING AIR CONDITIONING CONTROL SYSTEM**. Do not use the system for other air conditioning management operation or applications. It may cause malfunctions. · Do not apply insecticide or flammable sprays to the controller. Do not place flammable spray near the controller and make sure it does not blow directly on the controller as this may cause a fire. -1- 2 .

**Product Features** The central controller is capable of controlling up to 50 air conditioner units. It supports the following operating function. [ 1 ] User operating function (1) Operation 1. Virtually almost functions operated by local remote controller are supported. The central controller can be used to control the indoor units in specific group ON or OFF, select the operating mode (COOL, DRY, FAN, AUTO and HEAT) for the indoor unit or HEAT RECOVERY, BY-PASS, AUTO for the ventilation unit), select the fan speed, select the air direction (4 direction and swing operation), select the ventilation mode (OFF, LOW speed, or HIGH speed), select **TIMER MODE** and select the temperature setting. In addition, room temperature can be displayed at the unit of each group upon request. (See 5-5 "User setting") 2. Local remote control operation can be prohibited for specific functions. Access to specific control functions, such as ON/OFF operation, mode selection, temperature setting and filter sign reset operation can be prohibited for the local remote controls collectively or per group. 3.

Collectively setting Operation setting can be performed collectively or per group. (2) Weekly Schedule 1. The weekly schedule enables four different schedule patterns to be set weekly per group. (P1-P4) Of these, three patterns are to set ON/OFF schedule and remaining one pattern is to set the pattern to prohibit operation of the local remote controller. Four patterns (daily patterns) mentioned above enable the setting of individual schedule times for every group. 2. The respective daily patterns enable the setting of three different ON times (three prohibition times) and three different OFF times (three permission times). In addition, it is possible to set ON time only (prohibition time only) and OFF time only (permission time only). 3. Easy setting Daily operation patterns and weekly schedules for one group can easily be copied to the other groups.

4. Timer automatic recovery operation when recovering from a power down is supported. (3) Operating status monitor 1. ON/OFF/MALFUNCTION status can be monitored by group or by unit. 2. The groups managed by the central controller may be displayed all together by group number or group name (first three characters). Collective display of all unit address is also supported.



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3. When displaying all groups at once, individual groups can be turned ON or OFF by designating them by the indicator. (4) Malfunction monitor 1.

The unit address where the malfunction occurred, the error code and address of the unit that detected the malfunction are displayed on the malfunction monitor screen. 2. Pressing the reset key stops all the units connected to the same group, refrigerant system or linked group to the unit where the malfunction occurred, all of these are reset. -2- [ 2 ] System configuration setup and maintenance function (1) Setup for system configuration 1. Registration can be made for the indoor units, local remote controllers and slave system controllers in the same group. And also registration can be made for the ventilation such as OA processing unit. 2. Group name may be specified. ( Names may include alphanumeric characters.) 3.

Group name may be copied. 4. Setting of group configuration and specifying the group name may be performed as long as power is being supplied to the central controller. This means that setting can be performed before the central controller is installed at the site, before installation of individual units is completed or while the power supply to some units is cut off. 5.

System configuration data setting in the central controller can be deleted at once if necessary when replacing circuits wired board, etc. (2) Refrigerant system monitor All unit address (indoor, outdoor, etc.) can be displayed for individual refrigerant system on the refrigerant system monitor screen. This information is useful for checking the installation, such as address setting, transmission line connection and power supply connection. (3) Interlocked group setting Setting can be performed for indoor units interlocked with a ventilation unit.

If even one of the indoor units interlocked with ventilation have started to operate, the ventilation will be activated. (4) Malfunction log monitor 1. A log of the last 64 malfunction message, in the order in which they occurred, can be monitored. 2. The data and time the malfunction occurred, the address of unit where it occurred, the error code and the address of unit that detected the malfunction are displayed. 3. All malfunction logged in the memory of the central controller and indoor unit can be reset at once. [ 3 ] Other (1) Overall status display lamp Displays normal operation/all OFF/malfunction status for the entire system. (Normal operation/all OFF/malfunction status is indicated by the lamp being lit, not lit or blinking respectively) (2) Collective ON/OFF switch This switch allows turning all of the unit in the system ON or OFF at once. (3) Power supply wiring The central controller is supplied power from the PAC-SC50KUA Power Supply Unit via the M-NET transmission line and DC power line.

The DC power between the PAC-SC50KUA Power Supply Unit and the central controller should be 10m or less. The central controller allows to be connected to M-NET transmission line at any position. (M-NET transmission line is the central control line which connects TB7 terminal of the outdoor unit) (4) M-NET transmission line The combined maximum distance between the outdoor units and the central controller, and between the outdoor units and farthest indoor units connected to the same refrigerant system or their remote controller, may be extended up 500 meters. Therefore, even if the total distance is made longer by installing the outdoor units all in row, there will be no problem so long as the above maximum total distance limitation is not exceeded. -3- 3 . Functions 3-1 Specifications Item Source power requirement Specification DC24V,0.02A(Maximum loading) Input voltage Power received from PAC-SC50KUA Power Supply Unit via M-NET transmission line. DC12V,0.2A(Maximum loading) Power is received from the PAC-SC50KUA Power Supply Unit via the DC power line. 0 °C +40 °C / 32 °F +104 °F Operating Temperature Non operating -20 °C +60 °C / 4 °F +140 °F 30 90%RH (No condensation) Humidity mm 120(H) 300(W) 80[\*19](D) [\* ] : indicate the thickness from the in 4-3/4(H) 11-13/16(W) 3-1/8[\*3/4](D) wall.

Kg lb 1.0 2-1/4 Environmental condition Dimensions Weight System condition Number of control unit Indoor unit or independent OA processing unit or LOSSNAY : 50 units maximum (50 groups maximum) Number of units (indoor or independent OA processing unit or LOSSNAY) in one group : 1-16 units \*Note Indoor unit, independent OA processing unit and LOSSNAY can not register to the same group. Number of remote controller for local remote operation can be External controlled for units being controlled with a non-voltage contact signal input from an signal input Other external source. interface When one or more units being controlled are operating, the "ON" signal will be outExternal signal output put, and if a malfunction occurs in one or more units, the "malfunction" signal will be output. interface Initial setting (for installation and maintenance) Connecting Group setting \*3 information setting Interlocked setting \*3 Monitor Malfunction history The group setting operation for units (indoor units local remote controllers, independent OA processing unit, LOSSNAY and slave system controllers) are performed on the group setting screen.

The interlocked setting for the ventilation equipment as the OA processing unit or LOSSNAY , etc to indoor unit is performed on the interlocked setting screen. A maximum of the 64 most recent malfunction are displayed on the malfunction log monitor. Refrigerant The connected unit address are displayed on the refrigerant monitor screen. system monitor User setting Some of the indication and function that appear on the each screen can be specified to match the needs of the user. Other Master system controller/ Slave system Master/Slave setting of the system controller. controller \* G-50A does not support slaves. setting \*2 Prohibition The setting of a system controller which the local remote control is prohibition enable or setting enable disable. /disable The prohibited Selecting of the prohibited controller which is only local remote controller or both controller local remote controller and the other system controller. range setting K-control type The system composed of K-control type air conditioner equipment can be controlled \*3 using the K transmission converter (PAC-SC25KAA) \*1 Each operation is available in accordance with the function of unit. \*2 Master system controller and slave system controller. G-50A management range Another system controller management range Unit Unit Unit M-NET Gateway management range Management range of G-50A \* G-50A does not support slaves. Unit When G-50A controls another system controller or when the system contains only G-50A : G-50A is set as the master system controller. \* G-50A performs the group setting in this configuration. When G-50A is controlled by another system controller : (Example: MJ-300Gateway) G-50A is set as the slave system controller.



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\* The group setting is performed by Master system controller.

\*3 OA processing unit (LOSSNAY) and the K transmission converter (PAC-SC25KAA) are not included in systems shipped to North America (USA & Canada). -6- NOTE : The following group setting cannot be performed. · Unit groups which are not under the management of the master controller and are managed by the slave system controller. Master system controller Slave system controller Group Group Group · A common group is managed by more than two master controllers. Master system controller 1 Master system controller 2 Group Group Group · A slave system controller which exceeds the management range of the master system controller of two or more. Master system controller 1 Slave system controller Master system controller 2 Group Group Group

Group -7- 3 - 2 Display Screen Overall status lamp The lamp indicates the unit operation condition. ON ....

.. During operation OFF ...

... All group are stopping BLINKING ..

.... Malfunction Display 01 02 PROHI BITED G-50A NOTE: The temperature setting includes a function to switch the display or between Celsius (°C) Fahrenheit (°F) (page 34). 2 1 Continuously press and (2 seconds or longer) ENTER NEXT 3 4 1 5 001 04-2002 MON P4 -8- Collective operation switch If this switch is pressed during the operation, a whole group stop is performed. The collective operation switch can be performed in the user setting mode for any screen. ( Excluding menu screen ) LAN changeover switch Refer to section "5. Initial setting ( page 25 ) " for explanation of the operation of these switches. LCD contrast adjustment knob LAN status lamp Orange LED indicates action and green LED indicates link.

Service LAN connector Refer to section "5. Initial setting " for an explanation of this connector. Rear side Ethernet M-NET POWER A B S 12VDC GND RS232C 1 CNI 5 1 CN2 9 Operation panel M-NET Transmission line terminal RS-232C connector External input / output interface connector Refer to section "7. External input / output function ( page 38 )" for the detail of operation of these connectors. LAN(Ethernet)connector DC power supply terminator M-NET address setting 6 ADDRESS SETTING Function select setting FUNCTION SELECTS 12345678 ON OFF IP address setting IP ADDRESS SETTING IP ADDRESS : 192.168.001.001 MASK ADDRESS: 255.255.255.

000 6 ADDRESS SETTING 7 FUNCTION SETTING 8 IP ADDRESS SETTING 7 M-NET ADDRESS: 000 8 Displays, or sets, the controller M-NET address.

Refer to section "5. Initial setting (page 25)" for a detailed explanation of operation. Sets the function of the controller. Refer to section "5.

Initial setting(page 25)" for a detailed explanation of operation. Sets the LAN IP address. Refer to section "5. Initial setting(page 25)" for a detailed explanation of operation. VER.

BACK . 3 4 5 2 GROUP NO 2002 16-04-2002 014 6602 12 : 45 (DETECT 014) 09 : 12 (DETECT 012) NONE INDICATE INDICATE 1-1-2001 NONE TEMP. UNIT °C / °F 2002 05-04-2002 012 6607 2002 7 a LOSSNAY that Maintenance -9- 4 . User operation Used the following two screens when user operation is performed. Operation monitor screen .....

. This screen displays ON/OFF and malfunction condition of unit. G-50A normally displays this screen. Operation setting screen .....

. The unit operations can be performed by individual group or collective operation. These operation include the ON/OFF, operation mode, fan speed, temperature setting, air direction, ventilation setting, timer operation ON/OFF, local remote controller prohibition and filter sign reset are performed by group or collectively. In addition, this screen can also displays the room temperature of each group. · The collective operation can be performed on any screen (except for the menu screen) in the user operation mode <Shifting to the operation monitor screen and operation setting screen> Press the 1 switch and Press the 2 switch and select "1.

OPERATION MONITOR" select "2. OPERATION SETTING" Press the BACK SCREEN switch. Press the ENTER switch. Press the or ENTER switch to set "MON. (MONITOR)" on the blinking display and press the switch.

The unit operation can be verified in a single glance. Press the or switch to set "COL. (COLLECTIVE)" or "GROUP" on the blinking display and press the

Refer to section "4-1 Operation condition monitor". ENTER (Individual group operation setting screen) switch. <Returning to the user operation menu screen> Press the BACK SCREEN (back screen) switch. Each unit operation setting is performed. (Collective operation setting screen) Refer to section "4-2

Operation setting". -10- 4 - 1 Operation condition monitor · This function displays the ON/OFF/Malfunction status of specific units or group. · ON/OFF/Malfunction status is shown by the indication corresponding to the unit or group appearing in inverse, normal or blinking display. · The user may select display items by unit address, group number or group name.

Refer to section "5-7 User setting (page 34)" for detail of user setting. · During the user operation mode, this screen returns from any screen if there is no operation for approximately 10 minutes. (1) Operation Method · Note that operation is different for each of the following display methods. 1 Press the GROUP SELECT switch to change the display group in desired operation and monitor. 2 When displaying the units in a given group, press the all the units in that group ON or OFF. 1 switch turn 1 Press the number to be operated. 2 Press the ON/OFF switch to move the " " select the group " switch to set the displayed group unit is indicated by the " " symbol to the on/off mode. 1 switch to move the " " symbol. Select 1 Press the the group name to be operated. 2 Press the ON/OFF 1 switch to set the displayed group unit is indicated by the " " symbol to the on/off mode.

\*Displays up to the first 3 characters of the set group name. (2) Display contents Reverse: ON Normal: OFF Blinking: Malfunction during units is off Blinking and Reverse: Malfunction during unit is on. \*When a malfunction occurs, refer to section "4-4 Malfunction (page 23) ". -11- 4 - 2 Operation setting · There are two methods for the operation, performing the operation classified by groups or collective operation. 4 - 2 - 1 Group operation setting Ventilation No. Name of switches Function Display Operation status display 1 ON/OFF switch The ON/OFF condition of the displayed group is switched.



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\*When there is an interlocked OA processing unit or LOSSNAY, turning this switch ON starts operation in a [High] ventilated state. Each time to push the switch, a mode is selected in a sequence that goes from COOL, DRY, FUN, AUTO, HEAT and back to AUTO for air conditioner group. On the group composed of independent LOSSNAY, operation mode is selected in a sequence that goes from HEAT RECOVERY, AUTO, BY-PASS and back to HEAT RECOVERY. Used to the type of the operation mode selection.

Note: Operation mode can be selected according to the function of unit. switch If the unit is only cooling type. HEAT/AUTO mode may not appear on the display. Refer to the instruction manual of the air conditioner for more detail. 2 3 Fan speed switch The fan speed can be switched to four levels. Switching may be 3 levels or 2 levels, depending on the model. Fan speed display 4 levels 2 levels 3 levels 4 Temperature setting switch The setting temperature display. The setting range change according to the operation mode. 19 30 °C / 67 87 °F COOL/DRY The setting temperature change is per 17 28 °C / 63 83 °F HEAT formed. 19 28 °C / 67 83 °F AUTO NOTE: The temperature setting includes a function to switch the display between Celsius (°C) or Fahrenheit (°F) (page 34).

-12- No. Name of switches 5 Function Display Current time setting switch Air direction setting switch These switches are used when the current time is set. The Air flow direction can be selected. The air flow direction can be selected to four directions and swing operation (auto vane). Air flow direction 6 7 Ventilation setting switch The operation mode of the interlocked Ventilation volume setting display ventilation can be performed. \*Where there is no interlocked ventilation, the operation of this switch is invalid. \*"Ventilation" is OA processing unit or LOSSNAY Used to prohibit for the local remote control. The timer operation can be performed according to a previously set operation pattern. The filter sign display reset is performed.

The reset processing is completed by pressing this switch two times. The display group is changed. Use to back to the user menu screen. The position of a cursor can be moved when a cursor is appear. PROHIBIT : Local remote control specified on the prohibit setting screen is not possible.

PERMIT : Local remote control is possible. Timer operation display ON OFF Filter display Filter 8 Remote operation prohibit switch Timer more switch 9 10 Reset switch No display 11 12 13 Group select switch Back screen switch Cursor position switch Group number display This switch displays 1 50 group numbers. The switch can also display group names. The menu screen will be returned. The cursor position (blinking) moves.

\*1: Room temperature can be displayed by selecting the room temperature display function per "5-7User Setting". (but limited to indoor unit group) -13- (1) Local remote control operation prohibition setting. · G-50A can prohibit the operation of item such as connected local remote controller or slave system controller for each group. The prohibit items are ON/OFF operation, operation mode, temperature setting and filter sign reset operation. GROUP switch to display the group that the operation 1 Press the SELECT prohibition setting will be performed. 2 Press the or switch to set "PROH. (PROHIBIT)" on the blinking display and press switch. ENTER 1 The prohibit setting screen is displayed. 2 Press the operation switch for the items to be prohibited. ON/OFF · When the ON/OFF operation is to be prohibited : · When the operation mode is to be prohibited : 1 MODE 2 · When the setting temperature is to be prohibited : · When the filter sign reset is to be prohibited : 4 or RESET 7 DEL.

1 The items selected for prohibition are shown in reverse display. 2 After setting of prohibit item, press the operation setting screen. BACK SCREEN switch to go back to the 1 The operation setting screen is displayed. 2 Press the REMOTE PROHIBITION 0 switch to set "PROHIBIT ON". Remote operation prohibition/permission display will be change PERMIT to PROHIBIT and the prohibited item set on the prohibit setting screen are shown in reverse display.

The prohibit setting is completed. NOTE: · The system controller that performed the local remote control operation prohibition setting can operate the prohibited items. · When the No.4 function select is set ON, the prohibit setting of the local remote control operating cannot be made. For details, refer to "5-3 Function setting.

" -14- (2) G-50A operation prohibition · The operation of this controller is prohibited when an operation prohibition setting for this controller is received from a system controller other than this controller or when an external input signal is used. The BITED is displayed and the prohibition operation is display in reverse display when operation of this controller is prohibited by another system controller or an external input signal used. The prohibition operation which is displayed in reverse display is not possible to operate in this condition. PROHI- (3) Using the function area To select the function from the function area, use the or switch to move the cursor to the blinking to the function of your choice and press the switch. The current cursor position appears as a blinking indication on screen.

· MON. (MONITOR) : Shift to the operation monitor screen · PROH. (PROHIBIT) : Shift to the prohibit setting screen · COL. (COLLECTIVE) : Shift to the collective operation setting screen · M (memory) : Stores the setting currently shown on the screen in memory. · MR (memory read) : Reads the setting stored in memory and activates them for the currently displayed group.

ENTER -15- 4 - 2 - 2 Collective operation setting · A collective operation setting and a collective prohibit setting can be performed for all the group managed by this controller at one time. (1) Collective operation setting 1 Press the switch to set "COL. (COLLECTIVE)" in blinking ENTER display and press the screen. switch on the group operation setting 2 The collective operation setting initial screen is displayed. 3 Select the items for operation setting on the collective operation setting initial screen. The operation method is same as described in section "4-2-1 Group operation setting" (Page 12). NOTE: The items which were not set, remain set to the same condition that were set before the collective operation was performed. 4 The items selected for the operation blink on the collective operation setting screen. 5 When all setting are completed, press the switch to display the "SET" in blinking display for the indicated function area.



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6 Press the ENTER switch one time to complete this setting.

The collective setting is executed. The collective setting takes approximately 20 seconds. The collective setting is completed when the previous items light. (After the setting are completed, start from step 3 to perform operation again if change operation are required.) NOTE: The display of setting contents is erased when shift to another screen. -16- (2) Collective prohibit setting 1 Press the switch to set "PROH. (PROHIBIT)" in blinking ENTER display and press the initial screen. switch on the collective operation setting 2 The collective prohibit setting initial screen is displayed. 3 Select the items to be prohibited or permitted on the collective prohibit setting initial screen. Each time to press the switch corresponding to the prohibition item, the prohibition or permission is selected.

Prohibition setting : The prohibited item is displayed in reverse with blinking. Permission setting : The permitted item is displayed with blinking. The selection method concerning to prohibit/ permit item is same as described in section "4-2-1 (1) Local remote control operation prohibit setting". ( page 14 ) 4 The items selected for the prohibition or permission are displayed with blinking. And the "SET" is displayed with blinking in the function area.

5 When all setting are completed, press the plete this settings. ENTER switch one time to com- 6 The collective prohibit setting is excused. The collective prohibit setting takes approximately 20 seconds. 7 The collective setting prohibition/permission item setting is completed when the previous item light. 8 After setting of prohibit/permit items, press the switch to back to the collective operation setting initial screen.

BACK SCREEN -17- 9 The collective operation setting initial screen is displayed. 10 Press the REMOTE PROHIBITION 0 switch to set "REMOTE CONTROL PROHIBIT ". 11 Remote operation prohibition/permission display ("REMOTE CONTROL PROHIBIT ") is displayed with blinking. 12 Press the or switch to display the "SET" in blinking display for the indicated function area. Press the switch one time to complete the collective prohibit setting. ENTER 13 The collective prohibit setting is executed. It takes approximately 20 seconds. 14 The collective prohibit setting is completed when the remote operation prohibition/permission display is change to be light. NOTE: · The display of setting contents is erased when shift to another screen. · The following restrictions in the collective operation settings.

1. Temperature setting The range that can be set falls within 19°C 28°C /67°F 83°F regardless of the operation mode. 2. Operation mode selection, fan speed selection, air direction, etc.,can be collectively set regardless of the functions of the unit. However, actual setting to a unit without functions cannot be performed. To obtain the correct setting contents, refer to the respective group operation setting screens. -18- 4-3 Timer operation · A weekly schedule setting can be specified for each group. · Possible to set on the timer the schedule to prohibit operation of the local remote controller in addition to ON/OFF schedule. · Always set to current time on the current time setting screen when the schedule setting is performed.

Refer to section "4-5 Current time setting". NOTE: When browser monitoring, or schedule setting from central monitoring PC, was performed, the timer screen of this function cannot be used. "This function is set from a higher level." is displayed on this screen. <Schedule setting function summary> 1 The ON and OFF (PROHIBITION and PERMISSION) times can set in 10-minute units.

2 The daily operation schedule can include up to three ON (PROHIBITION) time settings and three OFF (PERMISSION) time settings. 3 Three types (P1-P3) of daily ON/OFF pattern and one type (P4) of prohibition/permission pattern are available respectively, each of which can be set every to each group. Week day which is not set in timer pattern is displayed with (-). In addition, it is also possible to set the schedule which has combined P1 -P3 and P4 together . ( P1 / P2 / P3 ) In this case, both of ON/OFF pattern and prohibition/permission pattern are daily executed.

Any one of these options may be selected for each separate day of the week. 4 The schedule patterns can be copied easy to other group by the memory and memory read functions because the schedule contents can be recorded in the memory. 5 The setting temperature or set-back value setting can also be supported during timer operation. <Shifting to the schedule setting screen> Press the 3 switch to select "3 SCHEDULE SETTING". Press the switch to go back to the user operation menu screen. BACK SCREEN Press the switch to move the cursor position to P1 (or P2 or P3 or P4 ). @@ · Weekly schedule pattern setting can be performed. @@@@ · Perform operation 7 to set the OFF (PERMISSION) time. @@@@ to the time position to be cancelled and press the switch. @@@@ · 5 Repeat operations 3 and 4 to assign the schedule pattern to each day.

NOTE: When the No.4 function setting is set ON, P4 cannot be set. (4) Copying schedule content to other groups (memory,memory read) · The schedule pattern P1 to P3, weekly schedule pattern, set-back value or setting temperature of one group can be recorded and copied to memory or to another desired group. · Correction and modification can be easily performed after the copy operation is completed. 1 Display the original group on the weekly schedule setting screen. 2 Press the ENTER switch to move the cursor to "M" . 3 Press the switch one time to record the setting date in memory. \*To erase date from the memory, return to the user operation menu screen. 4 "M" is displayed in reverse with blinking. GROUP 5 Press the SELECT to be copied.

switch to select the group to which the data is 6 Press the ENTER switch to move the cursor to "MR" . 7 Press the switch to set the contents which will be the same as the setting data in memory. The same contents are displayed. The contents stored in memory can be copied to other groups any number of times because these contents will not be erased even if the memory read operation is used. -22- 4 - 4 Malfunction · The malfunction monitor function is used for conforming to the details of the malfunction condition when a malfunction is displayed on the operation monitor screen.

· The malfunction monitor function can display data describing up to nine malfunctions in the address number sequence on one page. This data contains the unit address where the malfunction occurred, the error code and the unit address where the malfunction was detected. · After checking the unit address where the malfunction occurred and the error code, please contact your dealer or technical representative as soon as possible.



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< Shifting to the malfunction monitor screen > Press the 4 switch to select "4 MALFUNCTION MONITOR". Press the switch to go back to the user operation menu screen.

BACK SCREEN The unit address where the malfunction occurred Error code The unit address where the malfunction was detected NOTE : When there is no malfunction taking place, [ NO ERROR ] lights up instead of [ ERROR CODE ]. Page change operation The page change operation is performed by the Pressing the Pressing the or or switch shows the current display page +1. switch shows the current display page -1. switch. Malfunction reset operation Press the reset RESET DEL. switch to reset all malfunctions. The reset operation can be performed on any page. NOTE : When operation of the G-50A is prohibited, reset operation is invalid. -23- 4 - 5 Current time setting The current time, day, month and year are set on the current time setting screen. < Sifting to the current time setting screen > Press the 5 switch to select "5 CURRENT TIME SETTING".

Press the switch to back to the user operation menu. BACK SCREEN 04-2002 MON 1 Press the switch to move the cursor position to be set. 8 2 Press the 5 (CLOCK/PATTERN) switch to set the number or day that is displayed. 04-2002 MON 3 Repeat operations 1 and 2 to set the date day, month, year and time. 4 Where all setting have been completed, press the ENTER switch. 5 The current time setting is executed and "done" is displayed with blinking for two seconds to indicate the current time setting completed and the clock count will start with the second reset to 0. 2002 SUN -24- 5 . Initial setting 5 - 1 Shifting to initial setting menu · Shift to the initial setting menu by continuously pressing screen.(Refer to section "3-2"). + (2seconds or longer) on the user operation menu Shift to the user operation menu by continuously pressing + (2seconds or longer) on the initial setting screen (Refer to section "3-2").

) · When group information is not saved, the following initial setting screen is displayed when power is turned on at this controller. MENU WED 15:29 1 2 3 4 ADDRESS SETTING FUNCTION SELECT IP ADDRESS SETTING GROUP SETTING PLEASE SET INITIAL SETTING 5 - 2 M-NET address setting (1) Select 6 "6.ADDRESS SETTING"(or 1 "1.ADDRESS SETTING). to 9 INS.

(2) Set the controller address by pressing the (3) When the BACK SCREEN 0 switches.(000,201 250). switch is pressed after setting, the screen returns. Press the 6 switch to select"6ADDRESS M-NET ADDRESS SETTING" M-NET ADDRESS: 000 MENU WED 15:29 6 ADDRESS SETTING 7 FUNCTION SETTING 8 IP ADDRESS SETTING BACK Press the switch to back to the initial setting menu. BACK SCREEN · When the controller is shipped from the factory, the address is set to "000".

(Always set the address to "000" When the K transmission converter is managed.) NOTE : Observe the following precautions when this controller manages the M-NET models and K control models by using the K transmission converter (PAC-SC25KAA). Refer to the K transmission converter instruction manual for further details. · Address of this controller Always set the address of this controller to "000" . · Function select setting of this controller Always set the No.3 function setting to ON. · Indoor unit address Set all the M-NET models of indoor units from 001, next, set the address of the K control indoor unit. Indoor unit address 001 M-NET indoor unit maximum address mum address 050 K control indoor unit mini- \* The K transmission converter (PAC-SC25KAA) is not included in systems shipped to North America (USA & Canada). -25- 5 - 3 Function setting · The functions of this controller are set according to the function settings. · The functions selects are set to OFF when the controller is shipped from the factory.

(1) Select 7 "7.FUNCTION SETTING"(or 2 "2. FUNCTION SETTING"). 1 (2) Switch the function by pressing the function No. you want to change, or the of the same number. to 8 switch Each time the switch is pressed, the ON/OFF state of that No. is switched. (NO. 1 and NO. 2 cannot be changed.

) <Operation example> 1)When Input 3 3 ON OFF (3) When the BACK SCREEN switch was pressed. 3 ON OFF : Active switch is pressed at the end of function switching, the screen returns. Press the 7 switch to select"7FUNCTION FUNCTION SETTING SELECT" 12345678 ON OFF MENU WED 15:29 6 ADDRESS SETTING 7 FUNCTION SETTING 8 IP ADDRESS SETTING BACK Press the switch to go back to the initial setting menu. BACK SCREEN <Function selects> No. 1 No.

2 No. 3 No. 4 No. 5 No. 6 No.

7 No. 8 Reserved for future use (Leave this switch set to OFF) Reserved for future use (Leave this switch set to OFF) ON : K transmission converter installed OFF : No K transmission converter installed OFF : Operation prohibit setting valid ON : Operation prohibit setting invalid OFF : Emergency stop broadcast enabled (Be sure to use) ON : Emergency stop broadcast disabled External input changeover (refer to section "7 External input/output function") The range of a controller which the operation is prohibited OFF : Both of the system controller and the local remote controller ON : Only the local remote controller -26- 5 - 4 Group configuration setting · Registration can be made for the indoor units, local remote controllers and slave system controllers in the same group. · Registration can be also performed for the group which is composed of only OA processing unit or LOSSNAY. ( Independent ventilation group ) < Example for the group configuration > Outdoor unit Indoor unit M-NET local remote controller OA processing unit or LOSSNAY Air conditioner group Independent ventilation group M- NET Transmission line · Supply the power from the power supply unit (PAC-SC50KUA) through the M-NET transmission line and DC line. · Perform the following procedures to set the group configuration because the interlocked operation setting will not be performed if the group configuration settings have not been performed. WED 15:29 1 2 3 4 ADDRESS SETTING FUNCTION SETTING IP ADDRESS SETTING GROUP SETTING 1 When the power is supplied to the controller, the screen shown on the left is displayed. 2 Press the 1 (or 4 ) switch to select "1 GROUP SETTING". (or "4 GROUP SETTING") PLEASE SET INITIAL SETTING The group configuration setting screen is displayed. 3 Press the GROUP SELECT switch to display the group number to be set. 4 Press the switch to move to move the cursor to the address display position to be set.

5 Used the numeric keypad switch to set the address of the indoor unit, local remote controller, slave system controller in the display group number.



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< Operation example > When the indoor unit which address is 012. 1) Input "0" 0 2) Input "1" 01 012 4) Press the switch 012 \* It is also possible just enter "1" "2". < When the input is incorrect > Before pressing switch, continue to input the data. After pressing switch, move the cursor to the addresses to be deleted and press the switch to delete these addresses. DEL. RESET 3) Input "2" NOTE: · Do not set interlocked ventilation unit such as OA processing unit or LOSSNAY. · Even if the addresses are input any order, it is switched to a sequence starting with low-order address. · The independent ventilation unit can not set to the indoor unit group and it can not be set to as an interlocked ventilation unit. -27- Set all the units and controllers to be registered in the displayed group number.

6 Repeat operation 3 to 5 to set all groups managed by this controller. 7 When all setting are completed, press the BACK SCREEN switch. NOTE: · When there are M-NET local remote controllers in the system, always be sure to set the local remote controller address. The local remote controller will not operate if the address setting is not performed. However, when the local remote controller is an MA remote controller (PAR-20MAA) or K-control type remote controller, setting is not performed.

· If there is a K transmission converter is a component in the system, do not perform the group configurations setting of this controller for the K transmission converter. MENU WED 15:29 8 The following initial setting screen is displayed. When the interlocked operation settings are performed, refer to section "5-5 Interlocked operation setting". When the group name settings are performed, refer to section "5-6 Group name setting". When the user settings are performed, refer to section "5-7 User setting".

NEXT Additions Group configuration date collective deletion DEL. · Display "G00" in the group configuration setting screen and press the delete the all group configuration data and all interlocked operation data. switch two times continuously to NOTE: · When this unit is set to the slave system controller by the function select, group registration can not be made. However confirmation of the contents of group registration is possible. · Simultaneously press the and keys on the user operation menu screen for 2 seconds to perform group configuration setting. The initial setting menu screen is displayed. Select "1. GROUP SETTING" on the setting menu screen, wait for the group setting screen to appear, and change the setting. 9 When the necessary initial settings are complete, simultaneously press the and keys on the user operation menu screen for 2 seconds. When returned to the user operation screen, register processing for the group configuration information and initial set up processing for each unit and each controller is executed.

(This process takes approximately 5 7 minutes.) -28- 5 - 5 Interlocked operation setting · Registration of interlocked operation of Ventilation unit (OA processing unit and LOSSNAY) with single or multiple indoor unit is performed. All indoor units to be interlocked with ventilation unit for operation should be registered for the interlocking with ventilation unit. <Example for the interlocked group configuration> Outdoor unit Indoor unit M-NET local remote controller OA processing unit or LOSSNAY M-NET Transmission line 1 Simultaneously press the screen for 2 seconds. and keys on the user operation menu NOTE: Always perform the mode change operation from the user operation menu. Mode change operation from other screens is ineffective even if performed. 2 Initial setting menu screen is displayed. 3 Press the 2 switch to select "2 INTERLOCKED SETTING". NEXT 4 The interlocked setting screen is displayed. Minimum address of the interlocked OA processing unit or LOSSNAY unit which can be set to interlock with indoor unit is displayed on the "INTERLOCKED UNIT ADDRESS" display position.

And the cursor is displayed in the unit address display position. GROUP 5 Press the switch to display the address number of the inSELECT terlocked OA processor unit or LOSSNAY that the setting will be performed on. -29- 6 Used the numeric keypad switch to set the address of the indoor unit that operates with displayed interlocked OA processing unit or LOSSNAY. <Operation example> When the indoor unit which address is 012. 1) Input "0" 0 012 4) Press the switch 012 \*It is also possible just enter "1" "2".

<When the input is incorrect> Before pressing switch, continue to input the data. After pressing switch, move the cursor to the address to be deleted and press DEL. the switch to delete these addresses. 2) Input "1" 3) Input "2" 01 7 Set all the indoor units that operate with displayed interlocked OA processing unit or LOSSNAY. 8 Repeat operation 5 to 7 to set the indoor units of all interlocked operation units managed by this controller.

9 When all settings are completed, press the BACK SCREEN switch. Initial setting screen is displayed. This ends the interlocked operation setting. When the interlocked operation settings are performed, refer to section "5-5 Interlocked operation setting". When the group name settings are performed, refer to section "5-6 group name setting". When the user setting are performed, refer to section "5-7 user setting". NEXT Simultaneously press the and keys on the initial setting menu screen for 2 seconds to complete user operation. After the initial setting processing is completed (The initial setting screen will be displayed), refer to section "4 User operation ( page 10 )" and perform user operation. NOTE: When this unit is set to slave system controller by No.2 function select, interlocked operation settings cannot be adjusted.

However monitoring of the contents of the interlocked operation settings is possible. -30- 5 - 6 Group name setting ( 1 ) Setting method · Specify new group name. · Either alphabet, numeric characters, hyphens or spaces can be used for name setting. · Maximum of ten characters can be set. · When the group name is displayed on the operation monitor screen, the first three characters of the group name are displayed. (or 4 )switch to select "1. GROUP SETTING" 1 Press the 1 (or "4. GROUP SETTING") of the initial setting menu. NEXT 2 The group configuration setting screen is displayed. GROUP 3 Press the switch to display the group number which will SELECT be set in the group name setting.

4 Press the ENTER switch one time. The group name setting screen is displayed. 5 The character " " is displayed in reverse.



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6 Press the sired character. 7 Press the ENTER switch to move the cursor to the de- switch.

The selected character is displayed in the group name display area. 8 Repeat operation 6 or 7 and set the group name. When incorrect character is set, refer to section "Group name correction method (page 32)". Group name display area -31- 9 When the group name setting is completed, press the BACK SCREEN switch. The group configuration setting screen is displayed.

10 Repeat operation 3 to 9 and perform the group name setting for each group. 11 When all the group name settings are complete, press the BACK SCREEN switch. 12 The initial setting menu screen is displayed. To perform the setting, refer to section "5-6 User setting (page 34)". Simultaneously press the and keys on the initial setting menu screen for 2 seconds to complete user operation. Next refer to section "4 User operation" and perform user operation. NEXT When performing corrections to the group name, move the group name cursor to the character to be correct. Group name cursor movement method Move the cursor to one of the group name cursor movement mark using the switch. · Deletion methods Move the group name cursor to the character to be deleted and press DEL. the switch to delete the character.

· Insertion methods Move the group name cursor to the location where character is to be insert and press the 9 INS. switch to enter desired space. Group name cursor Group name cursor movement mark -32- ( 2 ) Group name copy · A certain group name can be copied to another group. ( This method use the "M" (memory) and "MR" (memory read) functions.) · It is convenient to use a group name for other groups because a group name that was copied can also be corrected. GROUP 1 Press the switch to display the original group on the group SELECT name setting screen. 2 Press the 3 Press the ENTER switch to move the cursor to "M". switch one time to record the setting name in memory. 4 "M" is displayed in reverse with blinking. Recording the setting name to memory is completed.

5 Press the GROUP SELECT switch to select the copy destination group. 6 Press the 7 Press the ENTER switch to move the cursor "MR". switch to read in memory. 8 Preformed the memory read for the group name. Refer to section "(1) setting method (page 31)" and perform the correction of the group name. -33- 5-7 User setting · To match the needs for the user this menu is to specify some of the indications and functions that appear on the user operating screen. 1 Press the 5 switch to select "5 USER SETTING" on the initial setting menu screen. NEXT The user setting screen is displayed. 2 Press the switch to select the items to be set. 3 When all the selection are completed,press the to the initial setting menu screen.

BACK SCREEN switch to return 7 TEMP. UNIT °C / °F Setup condition before delivery from the shop Item 1. Operation monitor screen display settings "GROUP NO.": Groups are indicated by group number on the operation monitor screen. "NAME": Groups are indicated by their first three characters of the group name on the operation monitor screen. "UNIT ADDRESS": Individual units are indicated by their unit address on the operation monitor screen. Item 2. Setting the set-back value and the setting temperature used in conjunction with schedule operation. · The set-back value or the setting temperature setting are possible when operation is linked with the schedule operation. "SET-BACK": Allows setting set-back value used in conjunction with ON/OFF patterns during schedule operation.

: Allows setting of the setting temperature used in conjunction with ON/OFF pat"SET TEMP" terns during schedule operation. : The schedule operation is only performs normal ON/OFF patterns. "NONE" Item 3. Setting filter sign indication "INDICATE": Allows the indication of filter sign. "NONE": Filter sign is not indicated. Item 4. Group number display "INDICATE": Enable display of group number on the operation setting screen and the schedule setting screen. "NONE": Group number is not indicated. Item 5. Change to the sequence of current time "2001-1-1": Current time indicate in a sequence of year,month and date on the current time setting screen.

"1-1-2001": Current time indicate in a sequence of date,month and year on the current time setting screen. Item 6. Room temperature indication "INDICATE": Indicated every each group "NONE": Not indicated every each group Item 7. Temperature unit "°C" "°F": Setting Centigrade : Setting Fahrenheit -34- 5-8 IP address setting · This function allows setting of the IP address and mask address needed at LAN connection. MENU WED 15:29 1 Select the 6 switch select "8.

IP ADDRESS SETTING" on the initial setting menu screen. 6 ADDRESS SETTING 7 FUNCTION SETTING 8 IP ADDRESS SETTING BACK IP ADDRESS SETTING IP ADDRESS : 192.168.001.001 MASK ADDRESS : 255.

255.255.000 The IP address setting screen appears. 2 Move the cursor to the address setting position by pressing the , , and keys. 3 Set the address with the 0 to 9 numeric switches. 4 When all address setting are complete, return to the initial setting menu screen by pressing BACK SCREEN switch. 5-9 Initial setting tool connection function · This function connects the initial setting tool PC by LAN. · Group setting, interlocked setting, and other information can be downloaded to this unit by using the initial setting tool Refer to the initial setting tool manual for an explanation of the initial setting tool functions and operating procedures. LAN changeover switch ACT LINK 1 Remove the cover from the controller by inserting a flat blade screwdriver into the gap between the cover and body and twisting the screwdriver. 2 Use the dedicated cable (sold separately) to connect the initial setting tool PC to the service LAN connector.

Service LAN connector FRONT REAR 3 When changed to FRONT with the LAN changeover switch, the initial setting tool PC is connected to the service LAN connector. 4 When setting with the initial setting tool is complete, return the LAN changeover switch to the REAR position. \*When a service LAN connector is used, the option Model PAC-YG00FA-E is necessary. -35- 6. Maintenance 6-1 Refrigerant system monitor · This function allows monitoring of the address of the outdoor units, and BC controller connected to the refrigerant system. It is useful for checking address settings, transmission line connection during installation. switch to select "3 REFRIGERANT MONITOR" on 1 Press the 3 the initial setting menu screen. NEXT The process for monitoring of the refrigerant system is executed.



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Please wait. The refrigerant system monitor screen of the lowest outdoor unit address is displayed.

Press the GROUP SELECT switch to change the displayed refrigerant system. BACK SCREEN When the monitoring is end, press the setting menu screen. switch to back to the initial -36- 6-2 Malfunction log monitor · This function allows monitoring of a log of the last 64 malfunctions. · The contents of malfunction and time the malfunction occurred is displayed. The contents of malfunction is the address of the unit where it occurred, the error code and the address of the unit that detected the malfunction.

· This data are remains in the memory even if supplied power is cut off. · The malfunction log data can be deleted using the malfunction log reset operation. If the malfunction log data is reset after the system is serviced, the log will provide a convenient record of the malfunction that have occurred after that time when the system is next serviced. 1 Press the 4 switch to select "4 MALFUNCTION MONITOR" on the initial setting menu screen. NEXT The malfunction log monitor screen is displayed.

2 Changing pages on the malfunction log monitor screen. 2002 16-04-2002 2002 05-04-2002 2002 GROUP SELECT ( ( , GROUP SELECT ) ) RESET Each time this switch is pressed, the current page +1 is displayed. Each time this switch is pressed, the current page -1 is displayed. , 3 Malfunction log reset operation Press the DEL. switch to clear the malfunction log. -37- 7.External input/output function \* External signal input requires the external I/O adapter (Model : PAC-YG10HA-E) sold separately. 7-1 External input function (1) The function of external input · Emergency stop/normal operation, ON/OFF, local remote control prohibit/permit can be controlled for all air conditioners being controlled with a non-voltage contact signal input from an external input source. (Select with the dip switches) · The condition of external input signal is displayed on the operation setting screen for each group. No.

Function of external input signal 1 2 3 4 External input signal not used Function No.6 No.7 OFF OFF ON OFF ON During emergency stop, only ON/OFF of the central controller and local remote controller's operation will be prohibit. Only the ON/OFF operation of the central controller and the local remote controller will be prohibit. Set the pulse width while the contact is ON to 0.5 to 1.0 second. Remarks Perform emergency stop with level signal OFF Perform ON/OFF operation with level signal Perform ON/OFF operation, prohibit/permit operation with pulse signal ON ON (2) Level signal and pulse signal 1 Level signal 2 Pulse signal (3) Specification of external input interface CN2 No.5 No.6 No.

7 No.8 No.9 Lead wire Orange Yellow Blue Gray Red Emergency stop/normal level signal Emergency stop/normal input Not used Not used Not used Common(DC12V or DC24V) ON/OFF level signal ON/OFF input Not used Not used Not used ON/OFF , prohibit/premit pulse signal ON input OFF input Local remote controller prohibit input Local remote controller permit input (A) Level signal 1 When the level signal is selected, the operation (only ON/OFF operation) for the central controller and the local remote controller are prohibited (except during normal operation). 2 When the emergency stop/normal operation signal is selected, the status will be changed from normal operation to emergency stop when the external input signal contact turns OFF to ON, and will be changed from emergency stop to normal operation when external input signal contact turns ON to OFF. 3 When ON/OFF input signal is selected, the status will be changed from OFF to ON when the external input signal contact turns OFF to ON, and will be changed from ON to OFF when the external input signal contact turns ON to OFF.

-38- (B) Pulse signal 1 Even if the ON signal is input during ON, the status will remain at the ON status. 2 When the local remote controller is prohibited, the ON/OFF operation, operation mode selection and temperature setting from the local remote controller is prohibited. 3 Set the pulse width (contact ON time) to 0.5 to 1.0 second.

7 - 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 CN2 No.1 No.2 No.3 Lead wire Green Black Brown Description of each terminal Common (0V) ON/OFF Malfunction/Normal 1 "ON" signal and "Malfunction" signal will both be output.

-39- Appendix 1 : Initial setting (abridged) Initial setting list Power on Displaying for a maximum of 7 minutes. MENU \* User operation WED 15:29 There is group information. 1 OPERATION MONITOR 2 OPERATION SETTING 3 SCHEDULE SETTING 4 MALFUNCTION MONITOR 5 CURRENT TIME SETTING Continuously press and (2 seconds or longer) INITIAL SETTING PLEASE WAIT There is no group information. MENU 1 2 3 4 WED 15:29 Group information modification and settings modification MENU 1 GROUP SETTING 2 INTERLOCKED SETTING 3 REFRIGIERANT MONITOR 4 MALFUNCTUON MONITOR 5 USER SETTING ADDRESS SETTING FUNCTION SELECT IP ADDRESS SETTING GROUP SETTING PLEASE SET INITIAL SETTING Setting end ENTER MENU WED 15:29 1 8 BACK SCREEN 6 ADDRESS SETTING 7 FUNCTION SETTING 8 IP ADDRESS SETTING VER.

. Setting items Menu items screen BACK Group configuration setting GROUP SETTING G01 ADDRESS UNIT ... This performs the same group setting. . . . Numeric keypayed GROUP SELECT : Select the group number. : Move the cursor to address display position. : Set the address. indoor unit, local remote controller slave system controller REMOTE CONTROLLER SYSTEM CONTROLLER GROUP NAME SET GROUP NAME SET ENTER BACK SCREEN GROUP NAME G01 · M : Move the cursor to the desired character. ENTER · 1234567890 - : Select the charactor.

: Delete the charactor. · DEL. A B C D E F G H I J K L M N O P Q R S T U V W X Y Z M MR Group name display area -40- Interlocked setting INTERLOCKED SETTING INTERLOCKED UNIT ADDRESS UNIT ADDRESS 005 ...

Registration of interlocked operation of ventilation unit with single or multiple indoor unit is performed. . . . Numeric keypayed GROUP SELECT : Select the address number of the interlocked OA processor unit or LOSSNAY. : Move the cursor to address display position. : Set the address of the indoor unit. User setting USER SETTING 1 OPERATION MONITOR GROUP NO.

/NAME /UNIT ADDRESS SCHEDULE DATA SET- BACK/SET TEMP / NONE FILTER SIGN NONE/INDICATE GROUP NO. DISPLAY NONE/INDICATE 2001-1-1/1-1-2001 ROOM TEMPERATURE NONE/INDICATE TEMP. UNIT °C / °F ... Select the display method and timer settings.



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