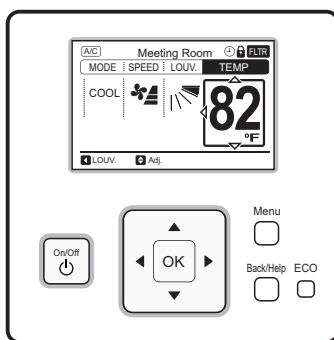


Operation Manual

- CIW01 -



IMPORTANT:

*READ AND UNDERSTAND
THIS MANUAL BEFORE
USING THIS WIRED
CONTROLLER.
KEEP THIS MANUAL FOR
FUTURE REFERENCE.*

P5415479



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1. Safety Summary

Signal Words

 WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates information considered important, but not hazard-related (for example, messages relating to property damage).

General Precautions

 WARNING	To reduce the risk of serious injury or death, read these instructions thoroughly and follow all warnings or cautions included in all manuals that accompanied the product and are attached to the unit. <i>Refer back to these safety instructions as needed.</i>
--	--

- This system, including this controller, should be installed by personnel certified by Johnson Controls, Inc. Personnel must be qualified according to local, state and national building and safety codes and regulations. Incorrect installation could cause leaks, electric shock, fire or an explosion. In areas where Seismic Performance requirements are specified, the appropriate measures should be taken during installation to guard against possible damage or injury that might occur in an earthquake. If the unit is not installed appropriately correctly, injuries may occur because of a falling unit
- Use appropriate Personal Protective Equipment (PPE), such as gloves, protective goggles and electrical protection equipment and tools suited for electrical operation purposes.
- When transporting, be careful when picking up, moving and mounting these units. Although the controller may be packed using plastic straps, do not use them for transporting from one location to another. Do not stand on or put any material on the controller.
- When installing the controller cabling to the units, do not touch or adjust any safety devices inside the indoor or outdoor units. All safety features, disengagement, and interlocks must be in place and functioning correctly before the equipment is put into operation. If these devices are improperly adjusted or tampered with in any way, a serious accident can occur. Never bypass, wire around, or jump-out any safety device or switch.
- Use only Johnson Controls recommended, provided as standardized, or replacement parts.
- Johnson Controls shall will not assume any liability for injuries or damage caused by not following steps outlined or described in this manual. Unauthorized modifications to Johnson Controls products are prohibited as they...
 - May create hazards which could result in death, serious injury or equipment damage;
 - Will void product warranties;
 - May invalidate product regulatory certifications;
 - May violate OSHA standards;

NOTICE	Take the following precautions to reduce the risk of property damage.
---------------	---

- Do not touch the main circuit board or electronic components in the controller or remote devices. Make sure that dust and/or steam does not accumulate on the circuit board.
- When installing the unit in a hospital or other facility where electromagnetic waves are generated from nearby medical and/or electronic devices, be prepared for noise and electronic interference Electromagnetic Interference (EMI). Do not install where the waves can directly radiate into the electrical box, controller cable, or controller. Inverters, appliances, high-frequency medical equipment, and radio communications equipment may cause the unit to malfunction. The operation of the unit may also adversely affect these same devices. Install the unit at least 10 ft. (approximately 3m) away from such devices.
- Locate the controller at a distance of at least three feet (approximately 1m) between the indoor unit and electric lighting. Otherwise, the receiver part of the unit may have difficulty receiving operation commands.

- If the controller is installed in a location where electromagnetic radiation is generated, make sure that the controller is shielded and cables are sleeved inside conduit tubing.
- If there is a source of electrical interference near the power source, install noise suppression equipment (filter).
- During the run test, check the unit's operation temperature. If the unit is used in an environment where the temperature exceeds the operation boundary, it may cause severe damage. Check the operation temperature boundary in the manual. If there is no specified temperature, use the unit within the operation temperature boundary of 35° to 104°F (0 to 40°C).
- Perform properly electrical wiring work. The details of the electrical wiring connection is described in the "Electrical Wiring" of Installation and Maintenance Manual for CIW01.

Installation Precautions

WARNING

Take the following precautions to reduce the risk of electric shock, fire or explosion resulting in serious injury or death:

- If the remote sensors are not used with this controller, then do not install this controller...
 - In a room where there is no thermostat.
 - Where the unit is exposed to direct sunshine or direct light.
 - Where the unit will be in close proximity to a heat source.
 - Where hot/cold air from the outdoors, or a draft from elsewhere (such as air vents, diffusers or grilles) can affect air circulation.
 - In areas with poor air circulation and ventilation.
- Perform a run test using the controller to ensure normal operation. Safety guards, shields, barriers, covers, and protective devices must be in place while the compressor/unit is operating. During the run test, keep fingers and clothing away from any moving parts.

After installation work for the system has been completed, explain the "Safety Precautions," use, and maintenance of the unit to the customer according to the information in all manuals that accompanied the system. All manuals and warranty information must be given to the user or left near the Indoor Unit.

Electrical Precautions

WARNING

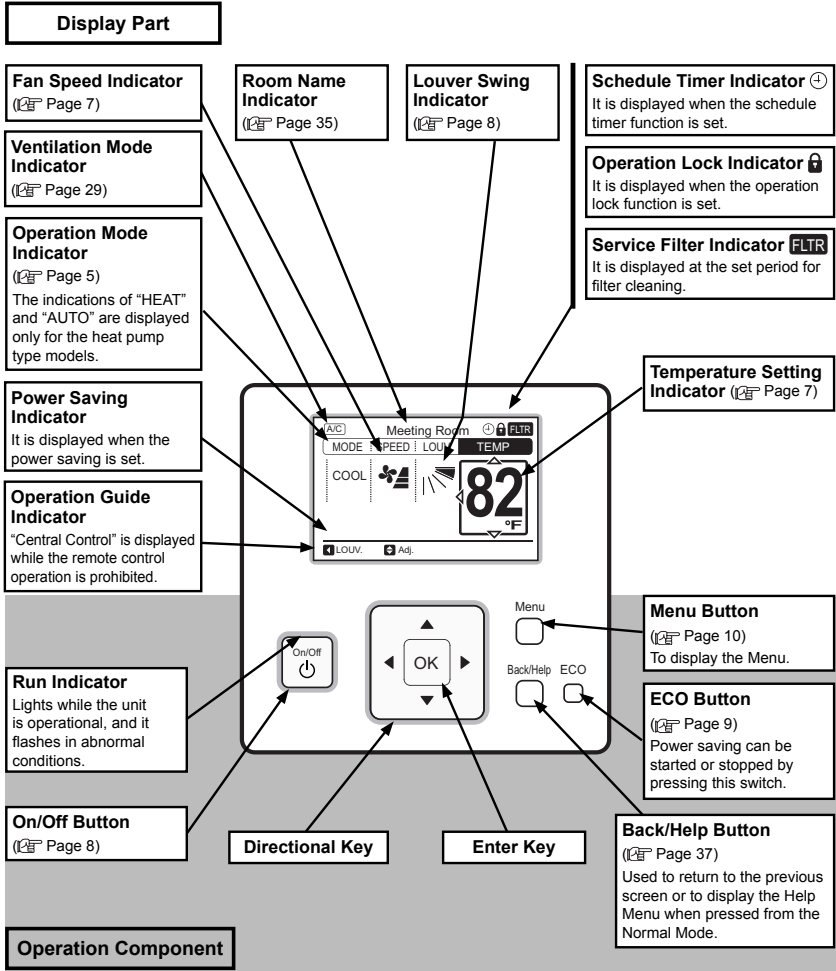
Take the following precautions to reduce the risk of electric shock, fire or explosion resulting in serious injury or death:

- Only use electrical protection equipment and tools suited for this installation.
- Insulate the controller against moisture and temperature extremes.
- Use specified cables between units and the controller.
- Communication cabling shall be a minimum of 18-Gauge, 2-Conductor, Stranded Copper. Shielded cable must be considered for applications and routing in areas of high EMI and other sources of potentially excessive electrical noise to reduce the potential for communication errors. When shielded cabling is applied, proper bonding and termination of the cable shield is required as per Johnson Controls guidelines. Plenum and riser ratings for communication cables must be considered per application and local code requirements.
- The polarity of the input terminals is important, so be sure to match the polarity when using contacts that have polarity.
- Highly dangerous electrical voltages may be used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause serious injury or death.
- Before installing the controller or remote devices, ensure that the indoor and outdoor unit operation has been stopped. Further, be sure to wait at least five minutes before turning off the main power switch to the indoor or outdoor units. Otherwise, water leakage or electrical breakdown may result.
- Do not open the service cover or access panel to the indoor or outdoor units without turning OFF the main power supply. Before connecting or servicing the controller or cables to indoor or outdoor units, open and tag all disconnect switches. Never assume electrical power is disconnected. Check with a meter and equipment.
- Use an exclusive power supply at the controller's rated voltage.

- Be sure to install circuit breakers (ground fault interrupter, isolating switch, molded case circuit breaker, and so forth) with the specified capacity. Ensure that the wiring terminals are tightened securely to recommended torque specifications.
- Clamp electrical wires securely with a cord clamp after all wiring is connected to the terminal block. In addition, run wires securely through the wiring access channel.
- When installing the power lines, do not apply tension to the cables. Secure the suspended cables at regular intervals, but not too tightly.
- Make sure that the terminals do not come into contact with the surface of the electrical box. If the terminals are too close to the surface, it may lead to failures at the terminal connection.
- Do not clean with, or pour water into, the controller as it could cause electric shock and/or damage the unit. Do not use strong detergent such as a solvent. Clean with a soft cloth.
- Check that the ground wire is securely connected. Do not connect ground wiring to gas piping, water piping, lighting conductor, or telephone ground wiring.

2. Switch Names and Functions

The figure below shows all the functions for reference. The actual display during operation is different.



Backlight

Backlight is turned ON by pressing any button. In an instance of using two controllers, only the first operated controller turns ON a backlight; the other does not turn ON backlight.

NOTE:

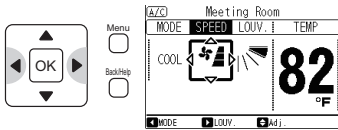
Make sure to press the buttons lightly with your fingertips. Do NOT press the buttons or anything with sharp points, such as a ball point pen. The operational functionality of the controller may become damaged.

3. Operation Method

3.1 Basic Procedures

(1) Function Selection

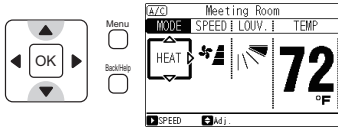
By pressing "<" or ">", the icon "☰" will move to the next function in order of the functions "MODE", "SPEED", "LOUV." and "TEMP".



(2) Change of Settings

With the function ("MODE", "SPEED", "LOUV." or "TEMP") selected, press "Δ" or "▽".

The setting will be changed.



3.2 Operation Mode

(Cooling, Heating, Dry, Cooling/Heating Automatic and Air Flow Operation)

<Function>

- * Cooling Operation (COOL):
To decrease the room temperature.
- * Heating Operation (HEAT):
To increase the room temperature.
- * Dry Operation (DRY):
To decrease the humidity in the room.
- * Cooling/Heating Automatic Operation (AUTO):
To cool and heat automatic changeover.
- * Air Flow Operation (FAN):
To circulate the air in the room.

ATTENTION

The recommended temperature set-point is as follows:

- * Cooling Operation: 80 to 84°F (27 to 29°C)
- * Heating Operation: 64 to 68°F (18 to 20°C)
- * Dry Operation: 74 to 77°F (23 to 25°C)

<Before Operation>

CAUTION

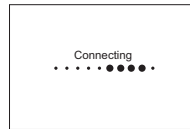
Apply power to the outdoor unit(s) at least 12 hours prior to operation of the system for preheating of the compressor oil.

Do NOT turn OFF the power supply during change of seasons.

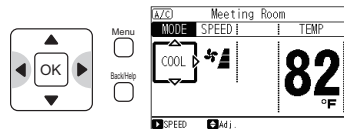
Make sure that the outdoor unit is not covered with snow or ice. If covered, remove it by using warm water less than 122°F (50°C).

If the water temperature is higher than 122°F (50°C), it will cause damage to plastic parts.

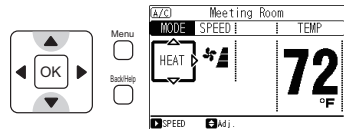
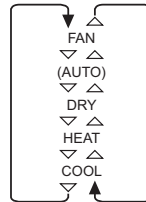
- (1) Turn ON the power supply.



- (2) Press "<" or ">" and select "MODE".



- (3) By pressing "Δ" or "▽", the operation mode will be changed as follows.



NOTE:

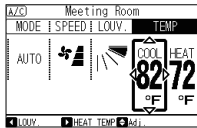
The advanced setting is required for the "AUTO" operation. Contact your distributor for detailed information.

3.3 Automatic Cooling/Heating Operation

In case dual setpoint is selected in automatic cooling/heating operation, during auto mode both cooling setpoint and heating setpoint can be selected.

By default, temperature when the cooling/heating mode changes are as follows.

Cooling mode changes to heating mode when the indoor temperature is heating setpoint -2°F (-1°C). Heating mode changes to cooling mode when the indoor temperature is cooling setpoint +2°F (+1°C).



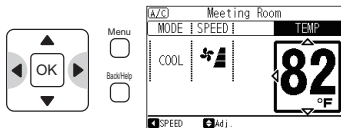
NOTE:

Advanced configuration is needed for the use of automatic cooling/heating operation and changing AUTO COOL/HEAT temperature. Contact your distributor or dealer for detailed information.

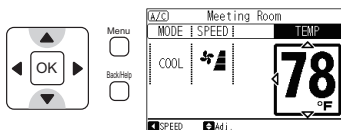
4. Setting Method

4.1 Temperature Setting

- (1) Press "<" or ">" and select "TEMP".



- (2) By pressing "Δ", the temperature is increased by 1°F (0.5°C) to a maximum of 86°F (30°C).
By pressing "∇", the temperature is decreased by 1°F (0.5°C).
Cooling, Dry, Air Flow operation:
A minimum of 66°F (19°C)
Heating operation: A minimum of 62°F (17°C)

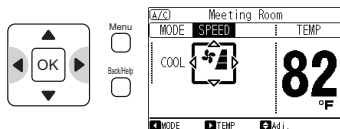


NOTE:

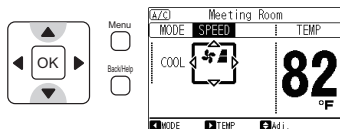
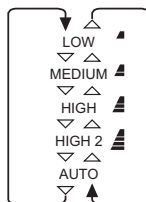
- Depending on the type and setting of the indoor unit, it may not be possible to set the temperature by 1°F (0.5°C).
- The max./min. temperature may differ depending on the type of indoor unit.
- Minimum and maximum temperature set-point limits can be configured by selecting a cooling lower limit and heating upper limit in the "Function Selection" mode of the wired controller's Test Run Menu.
- When the "Automatic Reset of Setting Temperature" function is selected, the temperature is automatically returned to the preset temperature after the temperature set-point change.
- Contact your distributor for detailed information about "Automatic Reset of Setting Temperature" and "Cooling Lower Limit Value and Heating Upper Limit Value for Setting Temperature" functions.

4.2 Fan Speed

- (1) Press "<" or ">" and select "SPEED".



- (2) By pressing "Δ" or "∇", the fan speed will be changed as follows.

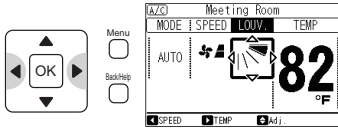


NOTE:

- During dry operation, the fan speed is automatically changed to "LOW" and cannot be changed to another fan speed. ("LOW" will NOT be displayed on the liquid crystal display (LCD) at this time. The present setting condition will be displayed on the LCD.)
- The fan speed settings "HIGH 2" and "AUTO" may not be available depending on the indoor unit type.

4.3 Louver Swing Direction

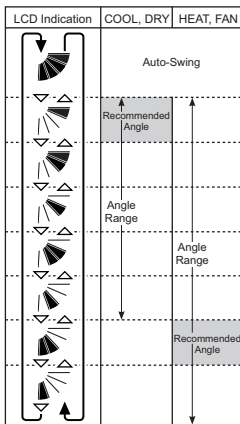
- Press "⏻" (On/Off).
Make sure that the power is ON. Press "◀" or "▶" and select "LOUV.". *



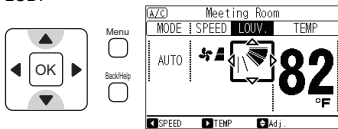
NOTE:

For the indoor unit without the auto louver mechanism, the indication of "LOUV." will NOT be displayed on the LCD.

- By pressing "Δ" or "∇", the louver direction will be changed as follows.



: Auto swing operation will be started. At this time, the louver will swing repeatedly on the LCD.



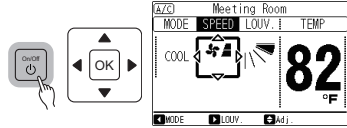
NOTE:

- The air flow angle is different for each indoor unit type. Check for detailed information in "Swing Louver Direction" of each operation manual for indoor unit.
- The louver position on the LCD and the actual louver position may not match during the auto swing operation.
To set the louver positions, set the angle after checking the position on the LCD.
- The louver may NOT stop immediately after the switch is pressed.

5. Operation

5.1 Operation Start

Press "⏻" (On/Off).
The run indicator will be turned on and the operation will be started.



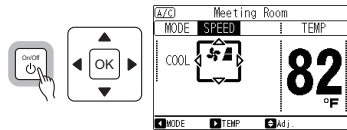
NOTE:

< Temperature/Air Flow Setting >

Temperature set-point and airflow settings will be retained after the indoor unit is turned off at the controller. If a setting change is required, refer to Sections 3.1 to 4.3.

5.2 Operation Stop

Press "⏻" (On/Off) again.
The run indicator will be turned off and the operation will be stopped.



NOTE:


The indoor unit fan may continue to operate for up to two minutes following the heating cycle to dissipate residual heat from the indoor unit.

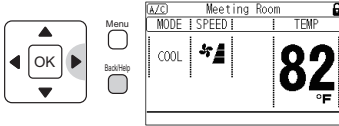
6. Operation Lock


- This function is used to lock a setting.
- The following functions are applicable.
 - Operation Mode (MODE)
 - Temperature Setting (TEMP)
 - Fan Speed (SPEED)
 - Louver Swing Direction (LOUV.)

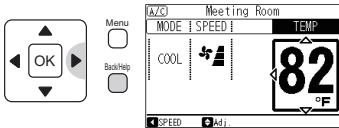
NOTE:

When "Lock function for operation mode selection" is selected, the operation lock performs the following procedures

- (1) To set the operation lock, press "▷" and "Back/Help" simultaneously for three seconds. The icon  will appear to show the lock is turned ON. When pressing "<" or "▷", locked setting items will be skipped.



- (2) To cancel the operation lock, press "▷" and "Back/Help" simultaneously for three seconds.  will be turned OFF, and the operation lock will be canceled.





NOTE:

- Each time when pressing "▷" and "Back/Help" simultaneously for three seconds, the operation lock state will be switched alternately between locked and unlocked.
- Select what is to be locked at the function selection setting. Contact your distributor for detailed information.

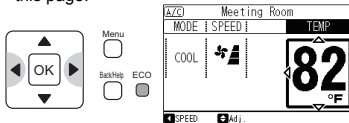
7. Power Saving Guidance

- This function easily sets the power-saving feature.

NOTE:

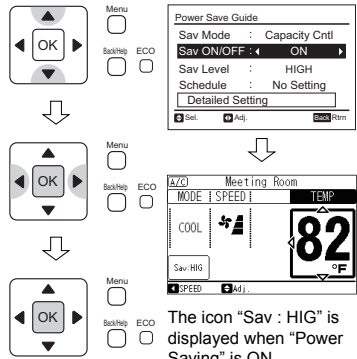
 Unable to set:
If a function displaying  is selected from the menu, "No Function" will be displayed on the lower screen.

- (1) Press "ECO":
The Power Saving Guide will be displayed as shown in the image near the bottom of this page.



- (2) The current setting status is displayed for "Power Saving Mode", "Power Saving ON/OFF", "Power Saving Level" and the schedule. It is possible to change the "Sav ON/OFF" and "Sav Level" settings. (*1)

- Power Saving ON/OFF Setting:
Press "Δ" or "∇" and select "SAV ON/OFF". By pressing "Δ" or "∇", the setting will change between "ON" ↔ "OFF". (*2)
- Power Saving Level:
Press "Δ" or "∇" and select "Sav Level". By pressing "Δ" or "∇" the setting will change between "LOW" ↔ "MED" ↔ "HIGH". (*2) (*3)
- Detailed Setting:
Press "Δ" or "∇" and select "Detailed Setting". By pressing "OK", the Detailed Setting screen will be displayed.



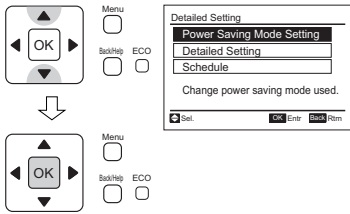
The icon "Sav : HIG" is displayed when "Power Saving" is ON.

NOTE:

- *1: When the Power Saving Mode is "Rotation Control", the "Power Saving Level" and schedule are not displayed. When the Power Saving Mode is "No Setting", the "Power Saving ON/OFF", "Power Saving Level" and schedule are not displayed.
- *2: When the Power Saving Mode is "Capacity Control" and "Main/Sub-Remote" from Section 9. "Help Menu", "Current Setting" is displayed as SUB. It is not possible to change the settings for "Power Saving ON/OFF" and "Power Saving Level".
- *3: When Power Saving is OFF, the "Power Saving Level" cannot be changed.

- (3) Press "Δ" or "∇" and select the setting function. By pressing "OK", each type of setting will be displayed.
Refer to the following concerning each setting.

- Power Saving Mode Setting (Section 8.6 "Power Saving")
- Power Saving Detailed Setting (Section 8.6 "Power Saving")
- Power Saving Schedule Setting (Section 8.10 "Power Saving/Operation Noise Reduction Schedule")



8. Menu Operation

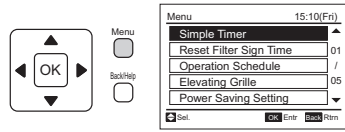
8.1 Menu

- Every function setting is displayed in the "Menu".
- Refer to Sections 8.2 to 8.19 for each function.

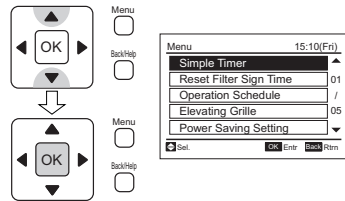
NOTE:

☒ Unable to set:
If a function with "☒" is selected from the "Menu", "No Function" or "Setting Disabled" will be displayed on the lower screen.

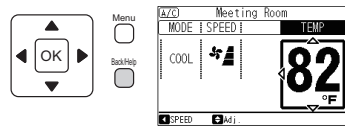
- (1) Press "Menu".
The menu will be displayed.



- (2) Select a function by pressing "Δ" or "∇" and press "OK".
(☒ will be displayed if the function is not available.)



- (3) Press "Back/Help" to return to Normal Mode (Operation Mode Indication).



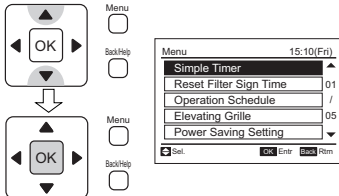
NOTE:

If the menu screen remains unchanged for approximately 10 minutes, the screen will automatically return to normal mode.

8.2 Simple Timer Operation

- This function is used to start or stop the unit operation at the set time.
- The timer operation contents can be set from "Not Used", "Once" or "Everyday".

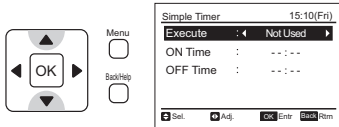
- (1) Select "Simple Timer" from the menu and press "OK".
The "Simple Timer" setting will be displayed.



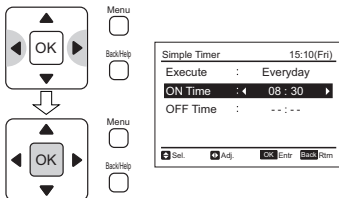
NOTE:

If the present time has not been set yet, "Set Date/Time" will automatically be displayed. Refer Section item 8.15 "Adjusting Date/Time".

- (2) Press "Δ" or "∇" to select the setting data.
The setting data are displayed "Timer Ope.", "ON Time" and "OFF Time".



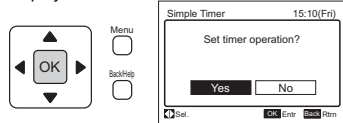
- (3) Press "<" or ">" to set each setting data for the selected details.
When "Timer Ope." is selected, the setting contents are switched between "Not Used" ↔ "Once" ↔ "Everyday" by repeatedly pressing "<" or ">".
When "ON Time" or "OFF Time" is selected, the setting time can be adjusted by 30-minute increments by pressing "<" or ">".
By pressing and holding "<" or ">", the setting time can be changed continuously.



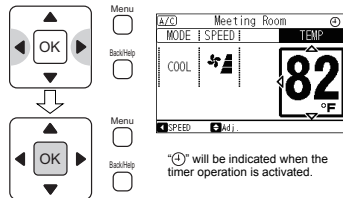
NOTE:

- If "Once" on the timer operation setting is selected, the setting content will be automatically changed to "Not Used" after one timer operation.
- Do not set the same hour for both ON/OFF timers.

- (4) Press "OK" to finish the "Simple Timer" setting. The confirmation screen will be displayed.



- (5) Select "Yes" by pressing "<" or ">" and press "OK". The setting will be confirmed and the screen will return to the normal mode.



NOTE:

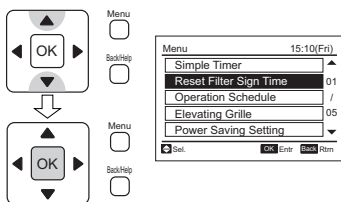
If the following happens, the "Simple Timer" operation is NOT available:

- * When the operation is prohibited by the controller and set from the central controller.
- * When "⊗" is indicated on the LCD, the timer operation cannot function. Set the date and time according to Section 8.15 "Adjusting Date/Time".

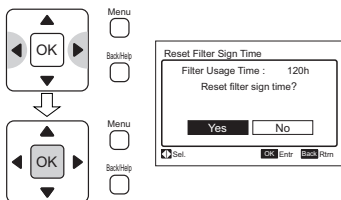
8.3 Reset Filter Sign Time

This function is used to turn off the filter sign indication and to reset the time of use for the filter.

- (1) Select "Reset Filter Sign Time" from the "Menu" and press "OK".
The "Reset Filter Sign Time" screen will display.

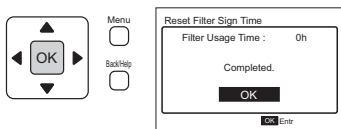


- (2) Select "Yes" by pressing "<" or ">" and press "OK".
After resetting, the confirmation screen of "Reset Filter Sign Time" will display. Depending on the type of the indoor unit, the screen will return to the normal mode.



The "Filter Usage Time" may not display depending on the type of the indoor unit.

- (3) Press "OK" to return to the normal mode.

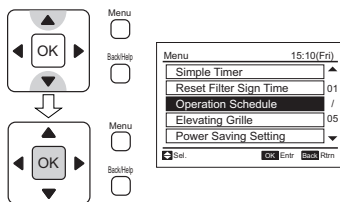


8.4 Scheduled Operation

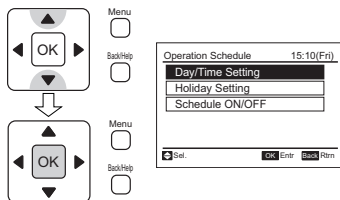
8.4.1 Schedule Setting

- This function is used to start or stop the unit operation at a set time.
- Temperature can be also set with "Schedule Timer" operation.
- Five different schedule timers (maximum) can be set for each day of the week.

- (1) Select "Operation Schedule" from the "Menu" and press "OK".



- (2) Select "Day/Time Setting" by pressing "Δ" or "∇" and press "OK".



NOTE:

If the present time has not been set yet, "Set Date/Time" will automatically display. Refer to Section 8.15 "Adjusting Date/Time".

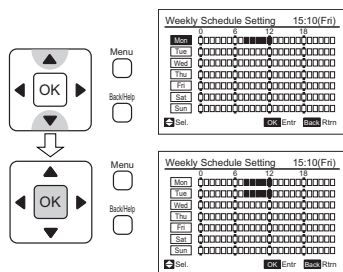
- (3) Select the day of the week (from Mon. to Sun.) by pressing "Δ" or "∇". Press "OK".

- "■" (run) and "□" (stop) will be displayed on the LCD.
- To copy the setting contents of the previous day, press "<" and "OK" simultaneously.

< Example >

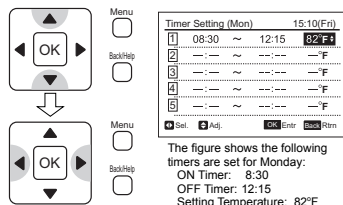
The setting contents of Monday are copied in Tuesday.

- Select "Tue".
- Press "<" and "OK" simultaneously.
- The setting contents of Monday are copied in Tuesday.

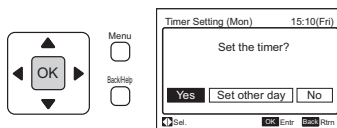


- (4) Select the schedule No. (from 1 to 5 as seen below) by pressing "Δ" or "∇". Select "ON Time", "OFF Time" or "Setting Temperature" by pressing "<" or ">". Set the ON/OFF timer and temperature by pressing "Δ" or "∇".

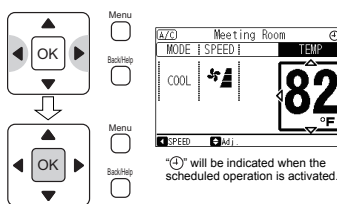
- Press or keep pressing "Δ" or "∇" to adjust numbers.
- Five different schedule timers (maximum) can be set for each day of the week.
- When setting other days of the week, press "Menu". The schedule setting screen of the next day will display.



- (5) Press "OK". The confirmation screen will be displayed.



- (6) Select "Yes" by pressing "<" or ">" and press "OK". The setting will be confirmed and the screen will return to normal mode. To set other days of the week, select "Set other day" and press "OK".



NOTE:

In the following instances, the schedule operation is NOT available;

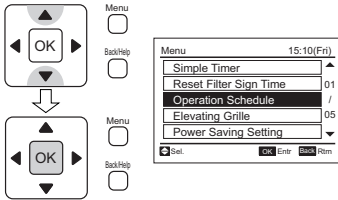
- * When the operation is prohibited by the controller and is set from the central controller.
- * When (⊗) is indicated on the LCD, the schedule operation cannot function. Set the date and time according to Section 8.15 "Adjusting Date/Time".

8.4.2 Holiday Setting

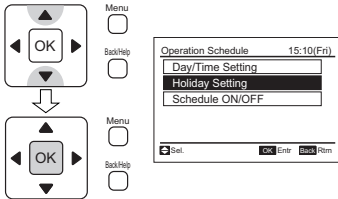
- This function is used to deactivate the schedule operation temporarily for just one day. After that, the schedule operation will recover automatically.
- This function is used to set irregular schedules such as national holidays.

- (1) Select "Operation Schedule" from the menu and press "OK".

The "Schedule Timer" setting will be displayed.

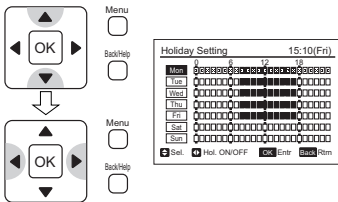


- (2) Select "Holiday Setting" by pressing "Δ" or "∇" and press "OK".

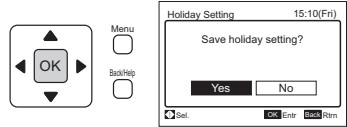


- (3) Select the day of the week to stop the operation by pressing "Δ" or "∇". Select "Hol. ON/OFF" by pressing "◀" or "▶".

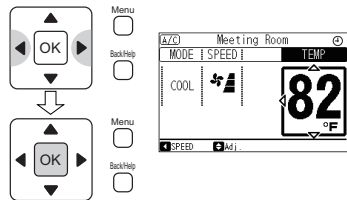
- "■" and "□" will be changed to "■" and "□" on the LCD.



- (4) Press "OK" after the setting is completed. The confirmation screen will be displayed.



- (5) Select "Yes" by pressing "◀" or "▶" and press "OK". The holiday setting will be confirmed and the screen will return to normal mode.



NOTE:

"⏸" will be turned off when the holiday setting is activated.

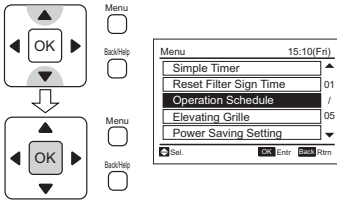
8.4.3 Schedule ON/OFF Setting

- This function is used to deactivate the scheduled operation temporarily.
- The scheduled operation will not be carried out when "OFF" is set in this function.
- This function is used for long periods of time.

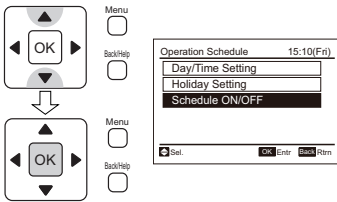
8.5 Elevating Grille

This function is not used.

- (1) Select "Operation Schedule" from the menu and press "OK".

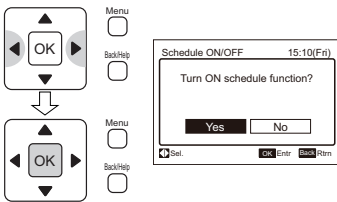


- (2) Select "Schedule ON/OFF" by pressing "Δ" or "▽" and press "OK". The confirmation screen will be displayed.



- (3) Select "Yes" by pressing "<" or ">" and press "OK". The schedule ON/OFF setting will be confirmed and the screen will return to the normal mode.

- "⏻" will be turned on when schedule operation is ON.
- "⏻" will be turned off when schedule operation is OFF.



NOTE:
When the schedule operation is OFF, it will not be activated.

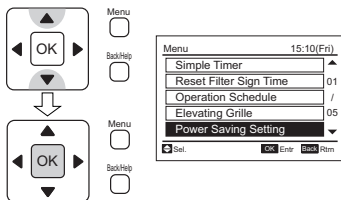
8.6 Power Saving

<Function>

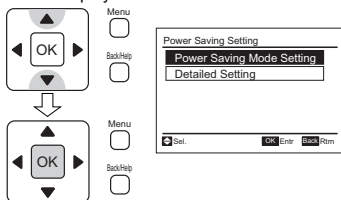
1. Outdoor Unit Capacity Control:
Controls the COOL/HEAT capacity of the outdoor unit.
2. Indoor Unit Rotation Control:
Indoor units linked with the same outdoor unit system are switched ON in order, one by one.
3. Intermittent Operation Control:
Cooling/Heating and FAN mode are repeated in fixed intervals.
4. No Setting:
The power saving function will not operate.

NOTE:

- The power saving mode can be changed and may differ depending on the type of the outdoor unit or indoor unit in use. When "Main/Sub-Remote" from the "Help Menu" "Current Setting" is displayed, the power saving mode can be changed as follows :
 - (a) "Main": The power saving mode can change functions 1 through 4 above.
 - (b) "Sub": The power saving mode cannot be changed. It will synchronize with the power saving mode of the main controller from the same outdoor unit cycle.
 - (c) "--": The power saving mode can be changed between functions 3 and 4 above.
 - If the power saving mode is changed, the "Power Saving ON/OFF" will be set as OFF.
- (1) Select "Power Saving Setting" from the "Menu" and press "OK".
The "Power Saving Setting" screen will be displayed.

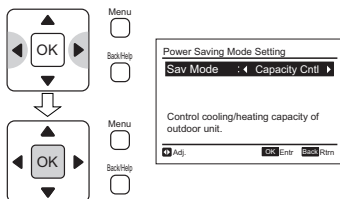


- (2) Select "Power Saving Mode Setting" by pressing "Δ" or "∇" and press "OK".
The "Power Saving Mode Setting" screen will be displayed.

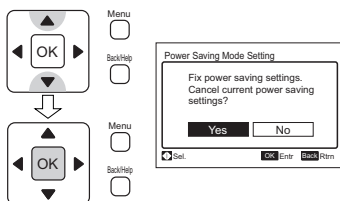


- (3) By pressing "◀" or "▶", "Power Saving Mode Setting" will change between: Capacity Control ↔ Rotation Control ↔ Intermittent Control ↔ No Setting

Select "Power Saving Mode" and press "OK".
The setting confirmation screen will display.



- (4) Select "Yes" using "◀" or "▶" and press "OK".
The screen will return to normal mode.



8.6.1 Power Saving Detailed Setting (Outdoor Unit Capacity Control)

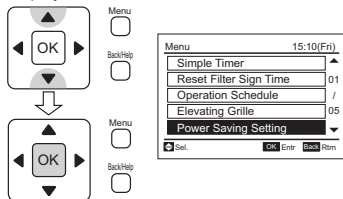
This function is used to set the detail of the outdoor unit capacity control.

- **Control Method:**
The "Peak Cut Control" reduces the power consumption range when it exceeds the value of the power setting. On the basis of the current air conditioning capacity, the "Moderate Control" is used to moderate the air conditioning capacity as well as the peak.
- **Power Saving LOW (MED / HIGH):**
Assign a value corresponding to the capacity control of each level of the power saving LOW / MED / HIGH.
- **Change Level:**
It is possible to change the power saving level from the power saving guidance.

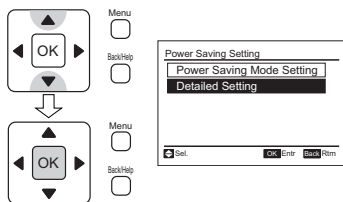
NOTE:

- The "Main/Sub-Remote" display in "Current Setting" of the "Help Menu" cannot be set if the indication is "Sub" or "--".
- If the power saving mode change the power saving detailed setting in the outdoor unit capacity control, the "Power Saving ON/OFF" will be OFF.
- It is necessary to assign a value of capacity control as follows:
"Sav LOW" > "Sav MED" > "Sav HIGH".
- The cooling/heating capacity can decrease when using the "Power Saving" function.

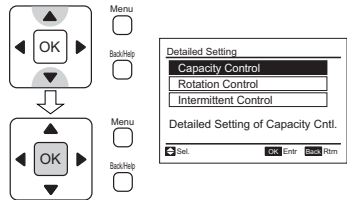
- (1) Select "Power Saving Mode Setting" from the "Menu" screen and press "OK".
The "Power Saving Setting" screen will be displayed.



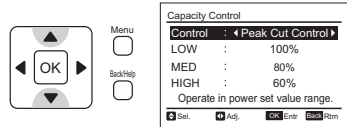
- (2) Select "Detailed Setting" by pressing "Δ" or "∇" and press "OK".
The power saving "Detailed Setting" screen will be displayed.



- (3) Select "Capacity Control" using "Δ" or "∇" and press "OK".
The outdoor unit "Capacity Control" screen will be displayed.



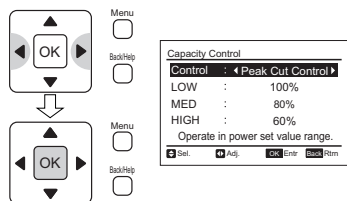
- (4) Press "Δ" or "∇" and select the setting function. The setting will change as follows:
"Control Method" ↔ "Sav LOW" ↔ "Sav MED" ↔ "Sav HIGH".



- (5) Press "◀" or "▶" and select setting content.

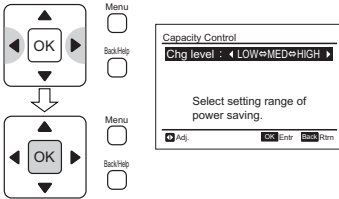
- If "Control Method" is selected, it will change as follows:
"Peak Cut Control" ↔ "Moderate Control".
- If "Sav LOW (MED or HIGH)" is selected, it will change as follows:
"100%" ↔ "90%" ↔ "80%" ↔ "70%" ↔ "60%" ↔ "50%" ↔ "40%" ↔ "0%".

Press "OK" after completing all settings.
The next setting screen will be displayed.

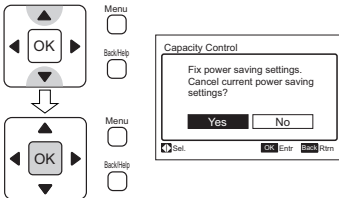


- (6) By pressing “◀” or “▶”, the setting function will change as follows
 “LOW→MED→HIGH” ↔ “LOW Only” ↔
 “MED Only” ↔ “HIGH Only”.

Press “OK” after completing the setting.



- (7) The confirmation screen will be displayed.
 Select “Yes” by pressing “◀” or “▶”, and press “OK” to confirm the setting.
 The screen will return to the normal mode.
 If the power saving setting is available, set it “ON” using the “Power Saving Guidance”.



8.6.2 Power Saving Detailed Setting (Indoor Unit Rotation Control)

This function sets the data of the indoor unit rotation control.

- Control Method

“Address order”:

The number (address) assigned by the previous indoor unit will change the FAN mode for the indoor unit in ascending order.

“Temperature order”:

The difference between the temperature set-point and the indoor unit intake temperature will change the FAN mode in ascending order for the indoor unit.

“Sensor order”:

If the motion sensor is used, this function will change the FAN mode in order, from the indoor unit in a spacious area with few people.

*: The outdoor unit cannot be set without this indoor function.

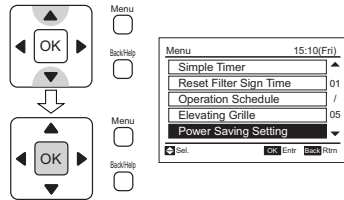
- FAN Operation Time

It is possible to change the timing of the FAN operation of the indoor unit.

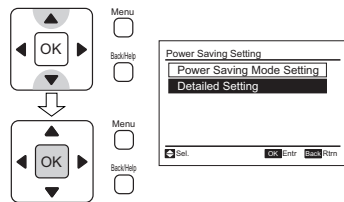
NOTE:

- The “Main/Sub-Remote” display in the “Current Setting” of the “Help Menu” cannot be set if “Sub” or “--” is displayed.
- If the “Power Saving Mode” changes the power saving “Detailed Setting” in the outdoor unit capacity control, “Power Saving ON/OFF” will be OFF.
- This function can only be used when the operation mode is in COOL or HEAT.
- The cooling/heating capacity can decrease when using the “Power Saving” function.

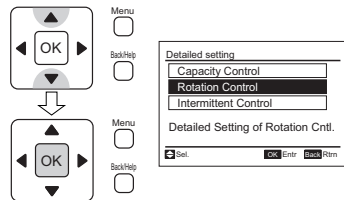
- Select “Power Saving Setting” from the menu screen and press “OK”.



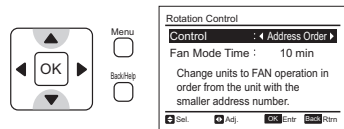
- The “Power Saving Setting” screen will be displayed. Select “Detailed Setting” with “Δ” or “∇” and press “OK”.



- Select “Rotation Control” with “Δ” or “∇” and press “OK”. The detailed setting screen of the indoor unit “Rotation Control” will be displayed.

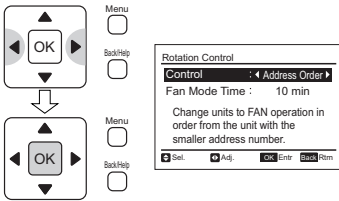


- Press “Δ” or “∇” and select the setting. The setting will change as follows. “Control Method” ↔ “FAN Mode Time”

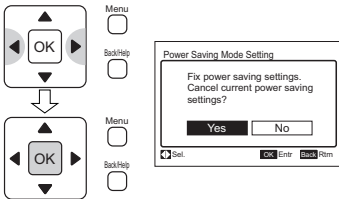


- (5) Press " \triangleleft " or " \triangleright " and select the setting content.
- If "Control Method" is selected, it will change as follows:
"Address Order" ↔ "Temperature Order"
↔ "Sensor Order"
 - If "FAN Mode Time" is selected, it will change between:
"10 min." ↔ "5 min." ↔ "3 min."
- Press "OK" when all settings have been carried out.

* It is not possible to set the indoor or outdoor unit when the "Sensor Order" is not supported.



- (6) The setting confirmation is displayed. Select "Yes" with " \triangleleft " or " \triangleright " and press "OK" to confirm the setting and return to the normal mode.
- If the "Power Saving Mode" setting is accessible, set "Power Saving ON" from "Power Saving Guidance".



8.6.3 Power Saving Detailed Setting (Intermittent Operation Control)

This function is used to set details of the Intermittent Operation Control.
Change Level It is possible to change the "Power Saving Level" from "Power Saving Guidance".

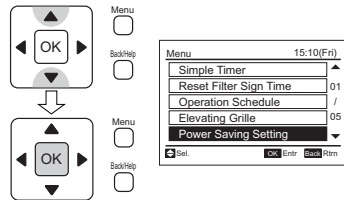
NOTE:

- This function cannot be set if it is connected only to the total heat exchanger.
- Each power saving level will repeat the operation as follows :

	Cool / Dry Mode	Heat Mode
SAV:LOW	Normal Mode 20min. ↓ Fan Mode 13min.	Normal Mode 25min. ↓ Fan Mode 5min.
SAV:MED	Normal Mode 20min. ↓ Fan Mode 13min.	Normal Mode 25min. ↓ Fan Mode 5min.
SAV:HIG	Normal Mode 20min. ↓ Fan Mode 13min.	Normal Mode 25min. ↓ Fan Mode 5min.

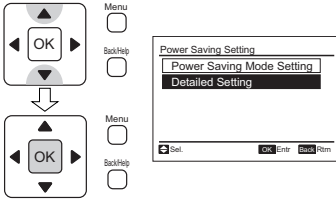
- If the "Power Saving Mode" changes the "Power Saving Detailed" setting in intermittent operation control, the "Power Saving ON/OFF" will be OFF.
- The cooling/heating capacity can decrease when using the "Power Saving" function.

- (1) Select "Power Saving Setting" from the "Menu" screen and press "OK".
The "Power Saving Setting" screen will be displayed.

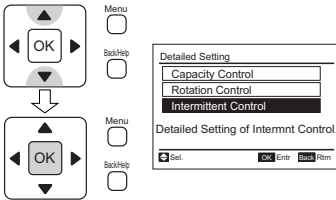


- (2) Select "Detailed Setting" with "Δ" or "∇" and press "OK".

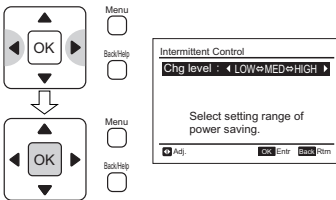
- When using a main controller, the "Power Saving Detailed Setting" screen will be displayed. Refer to (3) below.
- When using a sub controller or if the indoor unit does not support power saving, the "Detailed Setting" of the "Intermittent Control" will be displayed. Refer to (4) below.



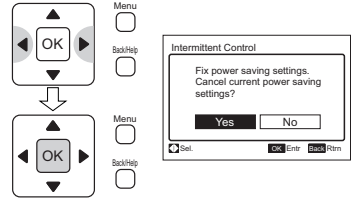
- (3) Select "Intermittent Control" with "Δ" or "∇" and press "OK".
The detailed setting screen of the intermittent control will be displayed.



- (4) By pressing "<" or ">", the following indications will be displayed :
"LOW→MED→HIGH" ↔ "LOW Only" ↔
"MED Only" ↔ "HIGH Only".
Press "OK" after selecting a setting.



- (5) The setting confirmation screen will be displayed. Select "Yes" with "<" or ">" and press "OK" to confirm the setting. The screen will return to normal mode. If the "Power Saving Setting" setting is accessible, set it "ON" using "Power Saving Guidance".



8.7 Night Quiet Operation

This function is used to control the operation noise of the outdoor unit.

NOTE:

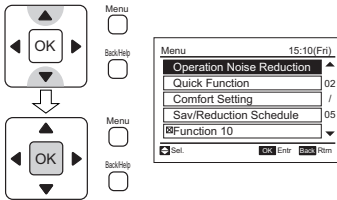
- The "Main/Sub-Remote" display in the "Current Setting" of the "Help Menu" cannot be set if "Sub" or "--" is displayed.
- Depending on the operation noise reduction setting below, it is possible to change the function setting to reduce the noise of the outdoor unit.

Setting	Outdoor Unit Setting Name
Not Available	No Setting
LOW	Setting 1
MED	Setting 2
HIGH	Setting 3

If questions arise concerning the amount of noise, contact your distributor for detailed information.

- The cooling/heating capacity can be decreased when using the "Operation Noise Reduction" setting.

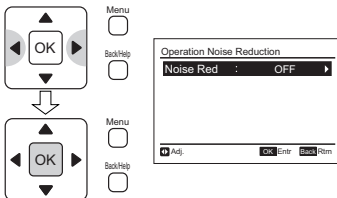
- Select "Operation Noise Reduction" from the menu screen and press "OK".
The "Operation Noise Reduction" setting screen will be displayed.



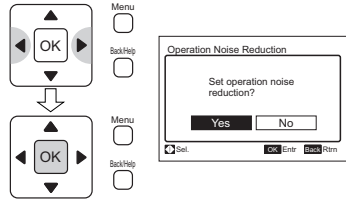
- By pressing "<" or ">" the setting will change as follows.

OFF ↔ LOW ↔ MED ↔ HIGH

Select the level and press "OK".



- The setting confirmation screen will be displayed. Select "Yes" with "<" or ">" and press "OK" to confirm the setting. The screen will return to normal mode.



8.8 Quick Function

This function operates for 30 minutes once the operation starts.

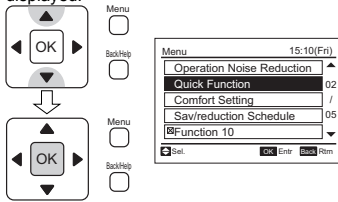
This function is only available when the operation mode is COOL or HEAT.

The unit will start each time in quick mode until the setting is canceled.

NOTE:

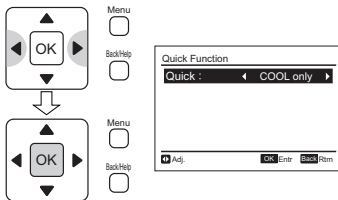
- The outdoor unit cannot be set when the function is not supported.
- The "Main/Sub-Remote" is displayed in the "Current Setting" of the "Help Menu" and cannot be set if "--".
- It is possible that the automatic fan speed will fall to LOW for a maximum of 30 minutes. The operation will start regardless of the fan speed setting of the controller when in cooling mode.

- (1) Select "Quick Function" from the "Menu" screen and press "OK".
The "Quick Function" screen will be displayed.

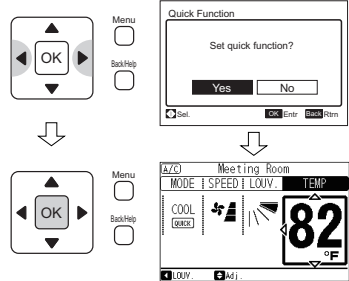


- (2) By pressing "<" or ">" the "Quick" mode will change as follows :
OFF ↔ COOL Only ↔ HEAT Only ↔
COOL + HEAT

Select the "Quick" mode and press "OK".



- (3) The setting confirmation screen will be displayed. Select "Yes" with "<" or ">" and press "OK" to confirm the setting. The screen will return to normal mode.



The icon "QUICK" will be displayed when in "Quick" mode.

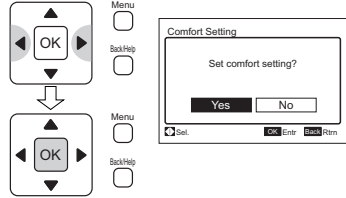
8.9 Comfort Setting

This function is used to control cooling of the discharged air when in the cooling mode.

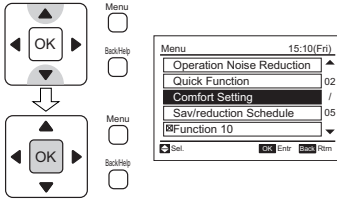
NOTE:

- The indoor unit cannot be set when the function is not supported.
- The cool air level order is as follows: "HIGH" > "MED" > "LOW" and the temperature of the discharged air is high.
- It is possible the operation may not function if there are more than two units operating.
- When this function is set, it may take time for the entire room to cool down.

- (3) The setting confirmation screen will be displayed. Select "Yes" with "<" or ">" and press "OK" to confirm the setting. The screen will return to normal mode.

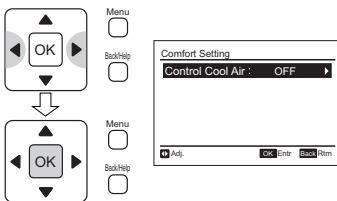


- (1) Select "Comfort Setting" from the "Menu" screen and press "OK". The "Comfort Setting" screen will be displayed.



- (2) By pressing "<" or ">" the Comfort Setting Mode will change as follows :
OFF ↔ LOW ↔ MED ↔ HIGH

Select the "Control Cool Air" level and press "OK".



8.10 Power Saving/Operation Noise Reduction Schedule

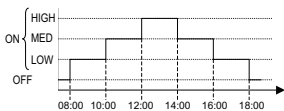
This function is used to start or stop the power saving or the noise reduction at the desired time. It is possible to set the power saving or the operation noise reduction schedule up to five times a day each day.

The "Power Saving Schedule" setting performs the scheduled control of the mode set by the "Power Saving" mode.

NOTE:

- Set time zones so they don't overlap during a day when managing multiple schedule patterns as in Example 1 below. If time zones are overlapped as in Example 2, the first "Time OFF" (14:00 in the example 2) will be cancelled.

<Example of Power Saving Operation and Schedule Setting>



Example of Power Saving Schedule Operation

Example 1

○ CORRECT

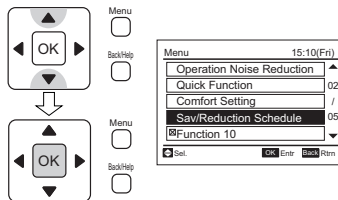
Capacity Control (Mon)		15:10(Fri)	
1	08:00 ~ 10:00	LOW	1
2	10:00 ~ 12:00	MED	2
3	12:00 ~ 14:00	HIGH	3
4	14:00 ~ 16:00	MED	4
5	16:00 ~ 18:00	LOW	5

Example 2

✗ INCORRECT

Capacity Control (Mon)		15:10(Fri)	
1	08:00 ~ 18:00	LOW	1
2	10:00 ~ 16:00	MED	2
3	12:00 ~ 14:00	HIGH	3
4	---	---	4
5	---	---	5

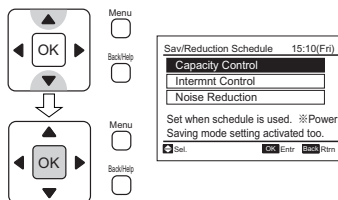
- Select "Sav/Reduction Schedule" from the "Menu" screen and press "OK". The power saving/operation noise reduction schedule setting screen will be displayed as "Sav/Reduction Schedule". When using a Sub controller or if the indoor unit does not support power saving, the power saving schedule setting of the "Intermittent Control" will be displayed. Refer to (3) below.



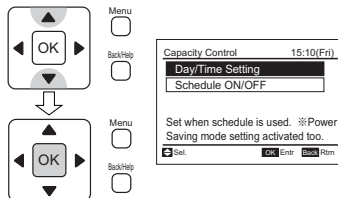
- By pressing "Δ" or "∇", select the setting item. The setting will change as follows: "Capacity Control" ↔ "Intermittent Control" ↔ "Noise Reduction"

Press "OK".

The power saving schedule setting (or noise reduction schedule) screen will be displayed as "Sav/Reduction Schedule".



- Select the "Day/Time Setting" with "Δ" or "∇" and press "OK". The weekly schedule setting screen will be displayed.



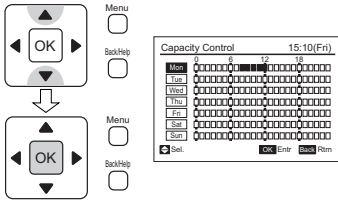
When the current time is not set, the "Time Adjusting" screen will be displayed automatically.

- (4) Select the day set with "Δ" or "∇" and press "OK". The "Time Setting" screen will be displayed.

- The icon "■" indicates the power saving control (or the operation noise reduction control), and the icon "□" indicates the canceled time period.

In case of a holiday setting, the icons will appear as follows "■" and "□".

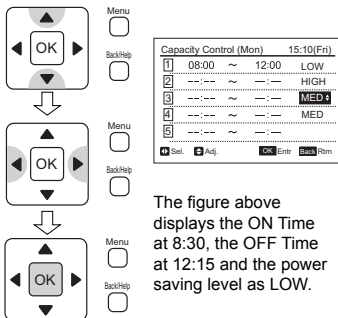
- To copy a setting, press "◀" and "OK" simultaneously for the selected day. The setting data of the previous day will be copied.



- (5) Select the schedule number from 1 to 5 with "Δ" or "∇". Then select "ON Time" or "OFF Time" or "Power Saving level" (or "Operation Noise Reduction level") with "◀" or "▶".

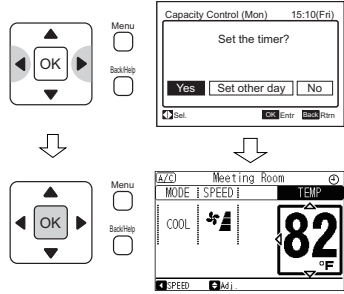
Set the ON/OFF time or the "Power Saving level" (or "Operation Noise Reduction") with "Δ" or "∇".

- When pressing continuously "Δ" or "∇", the level will increase or decrease in a row.
- The setting is possible every day up to five times a day.
- To set another day, press "Menu" to display the time setting of the next day. Press "OK".



The figure above displays the ON Time at 8:30, the OFF Time at 12:15 and the power saving level as LOW.

- (6) The setting confirmation screen will be displayed. Select "Yes" with "◀" or "▶" and press "OK" to confirm schedule setting. The screen will return to normal mode. When another day is set, select "Set other day" and press "OK".



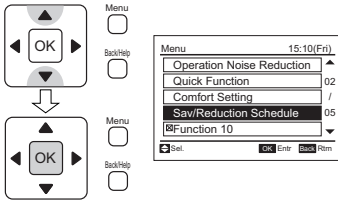
If the schedule control is activated, the icon "⊙" will be displayed.

If the icon "⊗" is displayed, the schedule control cannot be displayed. Refer to "Date/Time Adjusting" and set Date/Time.

■ Schedule ON/OFF Setting

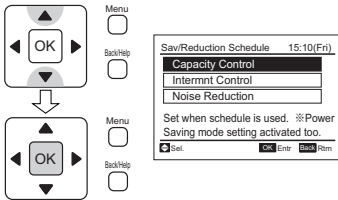
- This function is used to temporarily deactivate the schedule operation.
- Schedule control cannot be performed when the schedule setting is not accessible.
- This function is used for holidays over long periods of time.

- (1) Select "Sav/Reduction Schedule" from the "Menu" screen and press "OK".
The power saving/operation noise reduction schedule setting screen will be displayed as "Sav/Reduction Schedule".



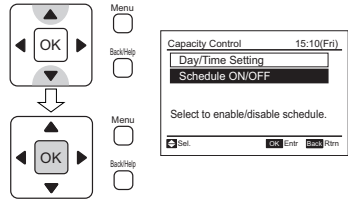
- (2) By pressing "Δ" or "∇", select the setting item. The power saving/operation noise reduction schedule will change as follows: "Capacity Control" ↔ "Intermittent Control" ↔ "Noise Reduction"

Press "OK".
The power saving schedule setting (or noise reduction schedule) screen will be displayed as "Sav/Reduction Schedule".



- If the display of the "Main/Sub-Remote" Current Setting is displayed as "Sub" or "--", "Capacity Control" and "Intermittent Control" cannot be selected.

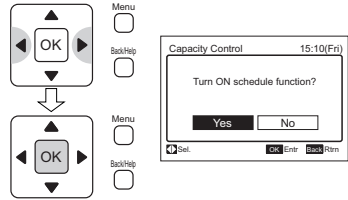
- (3) Select "Schedule ON/OFF" with "Δ" or "∇" and press "OK".



- (4) The "Schedule ON/OFF setting confirmation screen will be displayed.

When schedule is ON, select "Turn OFF schedule function". When schedule is OFF, select "Turn ON schedule function".

Select "Yes" with "<" or ">" and press "OK" to confirm the schedule ON/OFF setting.
The screen will return to the normal mode.



8.11 Individual Louver Setting

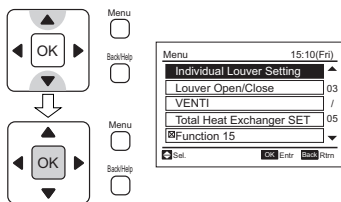
8.11.1 Setting

This setting is available only for indoor units that allow an individual louver control. Each louver angle can be set individually.

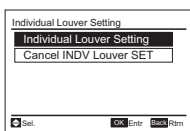
NOTE:

- This function is available only when the indoor unit corresponds to an individual louver.
- This function cannot be set if the unit is stopped.
- The fan speed will be changed to "LOW" while this function is being set. (After the setting is completed, the unit operation will be back to normal.)
- As for "Start-up of Heating Operation", "During Defrost Operation" and "Activation of Thermostat", all the louver angles will be secured horizontally automatically when this function is activated.
- This function will not be available if two controllers (including a combination of wired controller + wireless controller) are used.

- (1) Select "Individual Louver Setting" from the "Menu" and press "OK".
The "Individual Louver Setting" menu will be displayed.



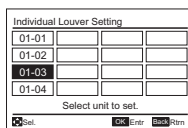
- (2) Select "Individual Louver Setting" from the "Individual Louver Setting" menu and press "OK".



NOTE:

If there is one indoor unit connected with the controller, four individual louvers will be displayed.

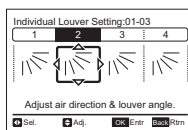
- (3) Select the indoor unit to change the louver direction by pressing "Δ", "∇", "◀" or "▶". Press "OK".



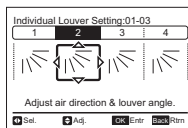
NOTE:

The indoor unit displayed on the screen flashes if an individual louver is set.

- (4) Press "◀" or "▶" and select the louver from 1 to 4. The selected louver is opened and the other louvers are closed.



- (5) Select the louver angle by pressing "Δ" or "∇" and press "OK".



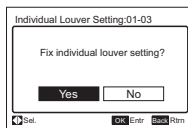
The louver angle will be changed as follows.



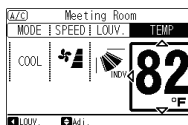
NOTE:

The louver direction without "INDV" will comply with the setting of the normal mode.

- (6) The confirmation screen will be displayed. Select "Yes" by pressing "◀" or "▶" and press "OK". The setting is confirmed and the screen will return to the normal mode.

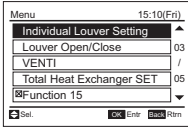


- (7) Ensure that "INDV" is turned on at the air flow section on the normal mode.

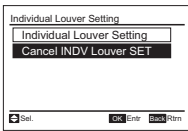


8.11.2 Cancellation of Louver Setting

- (1) Select "Individual Louver Setting" from the "Menu" and press "OK".



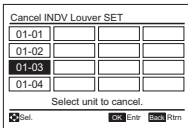
- (2) Select "Cancel INDV Louver SET" from the "Individual Louver Setting" screen and press "OK".



NOTE:

If there is one indoor unit connected with the controller, four individual louvers will be displayed.

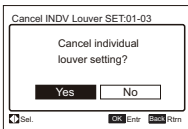
- (3) Select the indoor unit to cancel by pressing "Δ", "∇", "◀" or "▶". Press "OK".



NOTE:

The indoor unit displayed on the screen flashes if the individual louver is set.

- (4) The confirmation screen will be displayed. Select "Yes" by pressing "◀" or "▶" and press "OK". The individual louver setting will be cancelled and the screen will return to the normal mode.



NOTE:

All the individual louver settings will be canceled.

8.12 Louver Open/Close

This function is unnecessary to set.

8.13 Ventilation

This function is unnecessary to set.

8.14 Setting of Total Heat Exchanger

This function is unnecessary to set.

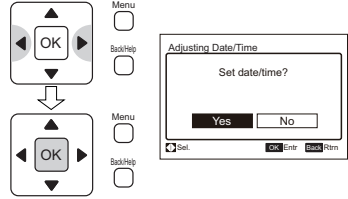
8.15 Adjusting Date/Time

- This function is used to adjust the date and time.
- Periodic time setting is recommended.
(Clock accuracy: difference within ± 70 seconds by a month)
- With this controller, the installed electric battery will allow continued operation for 72 hours.
Reset the date and time if the controller remains without power for longer than 72 hours or the main power supply is OFF for a long period of time.
- When adjusting time from the main controller, the sub controller of the same refrigerant cycle will be set at the same time.

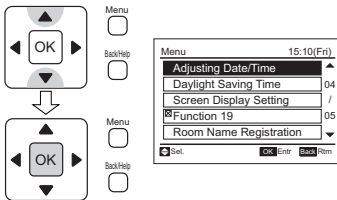
NOTE:

It is possible to adjust time from the sub controller. If more than two minutes' modification is done, the main controller will be set at the same time. (Check Main or Sub at the "Main/Sub-Remote" from the "Help Menu" "Current Setting").

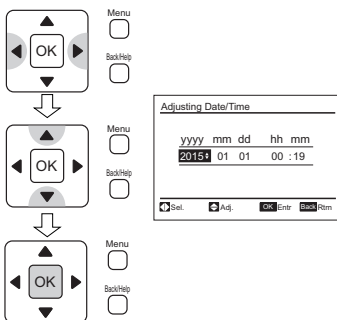
- (5) The confirmation screen is displayed. Select "Yes" by pressing " \leftarrow " or " \rightarrow " and press "OK". The setting will be confirmed and the screen will return to the normal mode.



- (1) Select "Adjusting Date/Time" from the "Menu" screen and press "OK".



- (2) Press " \leftarrow " or " \rightarrow " and select "yyyy/mm/dd/hh/mm".

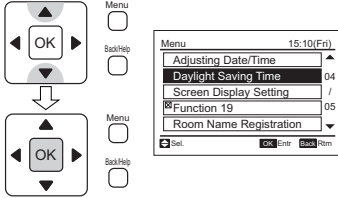


- (3) Press " Δ " or " ∇ " to change the setting. Press or keep pressing " Δ " or " ∇ " to adjust numbers.
- (4) After the setting is completed, press "OK".

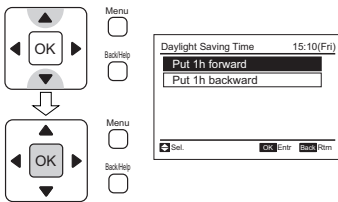
8.16 Daylight Saving Time

This function adjusts time forward or backward an hour when daylight saving time starts or ends.

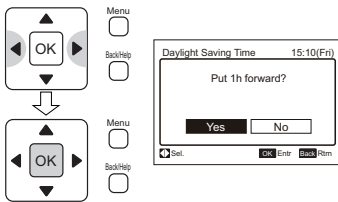
- (1) Select "Daylight Saving Time" from the "Menu" screen and press "OK".



- (2) The "Daylight Saving Time" screen displays. Select "Put 1h forward" with "Δ" or "∇" and press "OK".

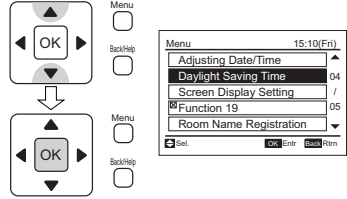


- (3) The daylight saving time confirmation screen will display. Select "Yes" using "◀" or "▶" and press "OK" to confirm the setting. The screen will return to normal mode.

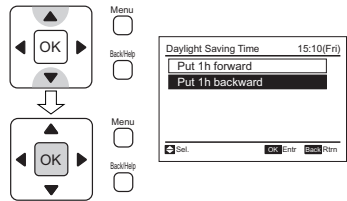


■ Stop Daylight Saving Time

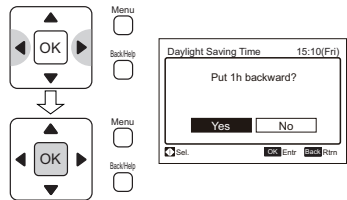
- (1) Select "Daylight Saving Time" from the "Menu" screen and press "OK".



- (2) The "Daylight Saving Time" screen will display. Select "Put 1h backward" using "Δ" or "∇" and press "OK".



- (3) The "Daylight Saving Time" confirmation screen displays. Select "Yes" using "◀" or "▶" and press "OK" to confirm the setting. The screen will return to normal mode.



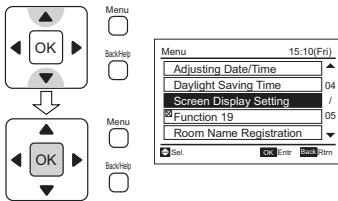
8.17 Screen Display Setting

8.17.1 Display Adjustment

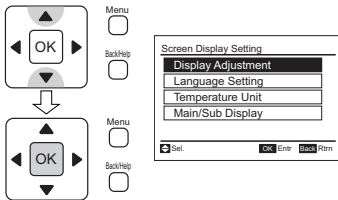
<Function>

- * Time Format:
Changes the time form to 12 hour or 24 hour.
- * Brightness:
Adjusts the brightness of backlight.
- * Backlight:
Changes the time (5, 15 or 30 seconds) between ON and OFF of backlight.
- * Contrast:
Adjusts the degree of difference between light and dark elements of the LCD display.
- * On/Off lamp:
Adjusts the brightness of the run indicator.

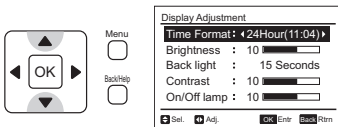
- (1) Select "Screen Display Setting" from the "Menu" screen and press "OK".



- (2) Select "Display Adjustment" by pressing "Δ" or "∇" and press "OK".



- (3) Select the setting details by pressing "Δ" or "∇".
The features change in order of "Time Format", "Brightness", "Back light", "Contrast" and "On/Off lamp".



- (4) Press "◀" or "▶" and set the display.

Time Format:

The time format changes as follows:
12 Hour ↔ 24 Hour

Brightness:

Press "◀" or "▶" and the brightness of the backlight is changed.

Backlight:

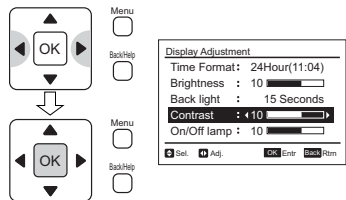
The display backlight is OFF after a specified time of inactivity (no input from touchscreen). The backlight off time interval can be selected as follows;
5 Seconds ↔ 15 Seconds ↔ 30 Seconds

Contrast:

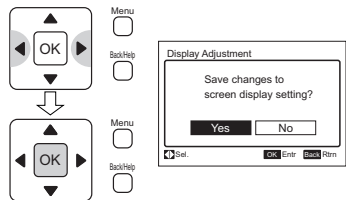
Press "◀" or "▶" and the degree of difference between light and dark elements of the LCD is changed.

On/Off lamp:

Press "◀" or "▶" and the brightness of the run indicator is changed.



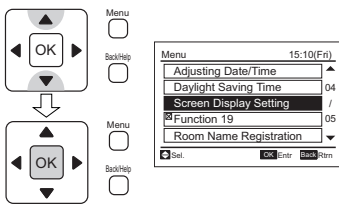
- (5) Select "Yes" by pressing "◀" or "▶" and press "OK". The setting will be confirmed and the screen will return to the normal mode.



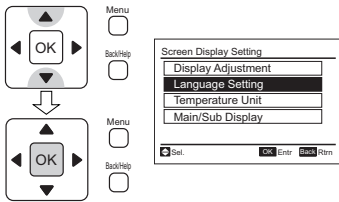
8.17.2 Language Setting

This function changes the displayed language.

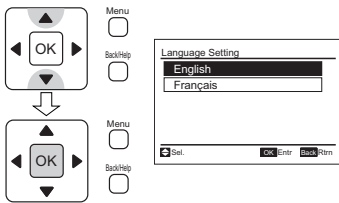
- (1) Select "Screen Display Setting" from the "Menu" screen and press "OK".



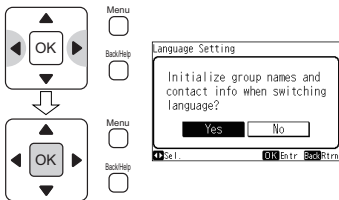
- (2) Select "Language Setting" by pressing "Δ" or "∇" and press "OK". The language setting will be displayed.



- (3) Press "Δ" or "∇" to select the language and press "OK".



- (4) The confirmation screen will display. Select "Yes" by pressing "◀" or "▶" and press "OK". The setting will be confirmed and the screen will return to the normal mode.

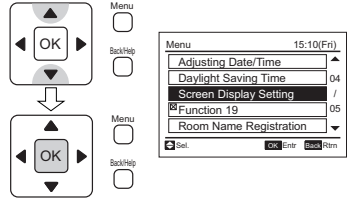


NOTE:

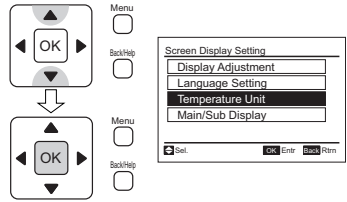
If displayed language is changed, the registered room name and contact information will be deleted.

8.17.3 Temperature Unit

- (1) Select "Screen Display Setting" from the "Menu" screen and press "OK".

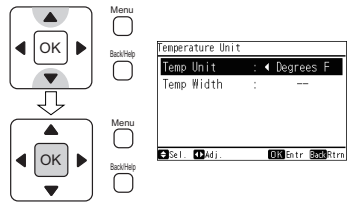


- (2) The "Screen Display Setting" screen will display. Select "Temperature Unit" using "Δ" or "∇" and press "OK". The temperature setting screen will be displayed.



- (3) The temperature setting options display. Press "◀" or "▶" and select the setting item. The temperature setting will change as follows.

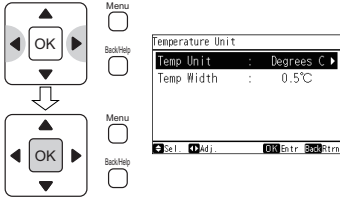
"Temperature Unit" ↔ "Temperature Width"



(4) Press " \triangleleft " or " \triangleright " and select setting data.

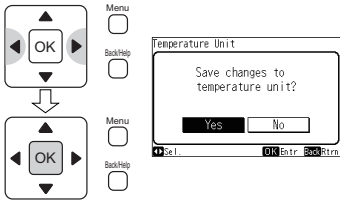
- If "Temperature Unit" is selected it will change as follows :
"Degrees C" \leftrightarrow "Degrees F".
- If "Temperature Width" is selected it will change as follows :
"0.5°C" \leftrightarrow "1°C"

Press "OK" when all settings are complete.



When the selected language is English, Fahrenheit temperature degrees can be selected.

(5) The setting confirmation screen will display. Select "Yes" using " \triangleleft " or " \triangleright " and press "OK" to confirm the setting. The screen will return to the normal mode.



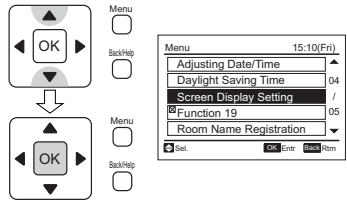
8.17.4 Main/Sub Remote Controller

This function is used to select Display/Non-display for "MAIN" or "SUB" displayed on the normal mode screen.

NOTE:

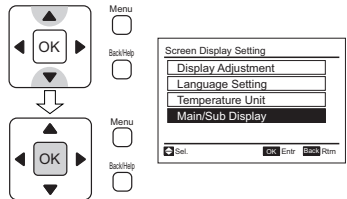
If the unit is set as "Non-display", it is possible to verify if the controller is Main/Sub in the "Main/Sub-Remote" of the "Help Menu" "Current Setting".

(1) Select "Screen Display Setting" from the "Menu" screen and press "OK".



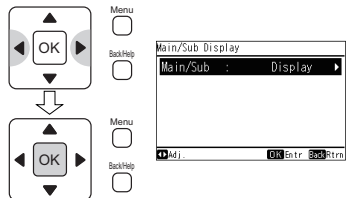
(2) The "Screen Display Setting" screen will display. Select "Main/Sub Display" using " Δ " or " ∇ " and press "OK".

It cannot be set if only the main controller is available or when the display for "Main/Sub-Remote" in the "Current Setting" is shown as "___".



(3) The "Main/Sub Display" screen displays. By pressing " \triangleleft " or " \triangleright " the setting will be changed as follows :
"Display" \leftrightarrow "Non-display"

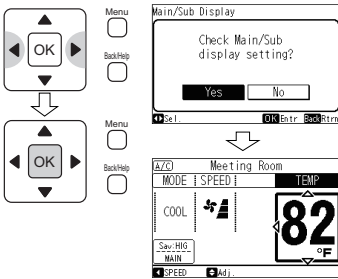
Select the setting and press "OK".



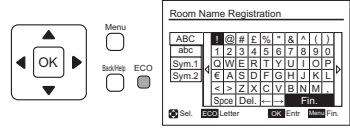
- (4) The setting confirmation screen will display. Select "Yes" with "<" or ">" and press "OK" to confirm the setting. The screen will return to normal mode.

Main/Sub	Display	Non-display
SAV	<input type="checkbox"/> MAIN <input type="checkbox"/> SUB	Hide
ON	<input checked="" type="checkbox"/> Sav:HiG <input type="checkbox"/> MAIN <input checked="" type="checkbox"/> Sav:HiG <input type="checkbox"/> SUB	Sav:HiG

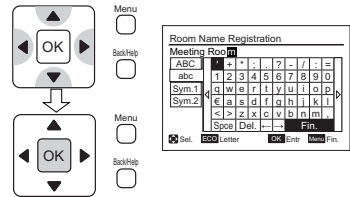
The icon will be displayed as above when set as "Display".



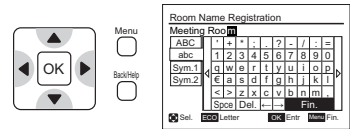
- (2) By pressing "Back/Help", letter and symbol types can be changed.



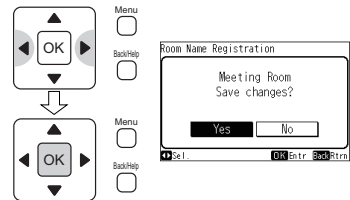
- (3) Press "Δ", "∇", "<" or ">" and select the letter or symbol. Press "OK" to confirm the selected letter or symbol (maximum of 12 characters).



- (4) Select "Fin." by pressing "Δ", "∇", "<" or ">" and press "OK", or press "Menu".



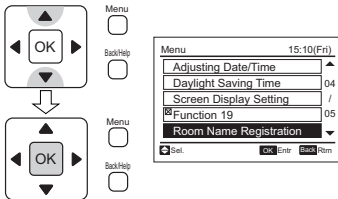
- (5) The confirmation screen displays. Select "Yes" by pressing "<" or ">" and press "OK". The setting will be confirmed and the screen will return to the normal mode.



8.18 Room Name Registration

This function registers the name of the room (installation location of controller).

- (1) Select "Room Name Registration" from the "Menu" screen and press "OK". The room name will be displayed.



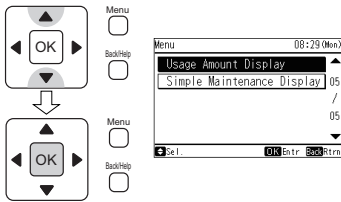
8.19 Power Consumption Display

This function displays the power consumption of the outdoor unit compressor.
The value of each displayed in Graph/List format is 1 day (24h (- every 2 hrs.)), 1 week (7 days), and 1 year (12 months).

NOTE:

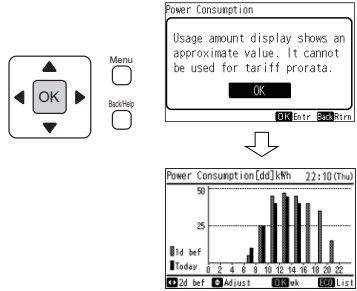
- The numerical value is a reference. Do not use this unit for the following:
Calculation of power rates or examination of the power contract.
- The "Main/Sub-Remote" display in the "Current Setting" of the "Help Menu" cannot be set if "Sub" or "--".
- In the following instances, the calculated value may be a deficit or may be changed.
 - Power Failure (outdoor unit, indoor unit, wired controller)
 - Communication Failure (outdoor unit ↔ indoor unit ↔ wired controller)
 - Modification of time

- (1) Select "Usage Amount Display" from the "Menu" screen and press "OK".



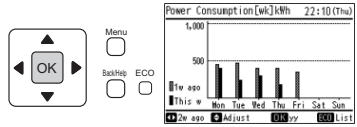
The Usage Amount Display setting screen will be displayed. When the current time is not set, the time adjusting screen will be automatically displayed.

- (2) The confirmation screen will be displayed. Press "OK" to change the screen to "Power Consumption" display.



- (3) Display Period

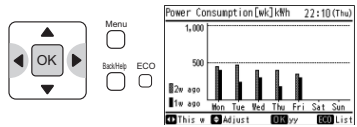
Press "OK" to change the Display Period as follows:
1 day (24h) / 1 Week (7 days) / 1 year (12 months)



Comparison

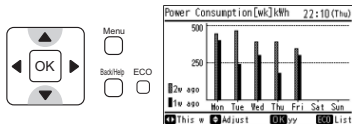
Press "<" or ">" to change the periods of comparison as follows:

- "2 days before / 1 day before"
- ↓
- "1 day before / Today"
- ↓
- "2 weeks ago / 1 week ago"
- ↓
- "1 week ago / This week"
- ↓
- "2 years ago / 1 year ago"
- ↓
- "1 year ago / This year"



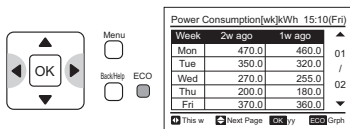
Display Scale

Change the scale using “Δ” or “∇”.

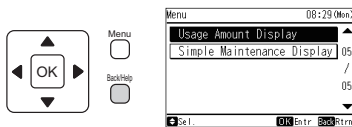


Graph ↔ List Display

Press “ECO” to change the “Power Consumption” display as follows:
“Graph” ↔ “List”



- (5) Press “Back/Help” to return to the “Menu” screen.



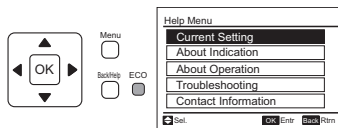
9. Help Menu

9.1 Help Menu

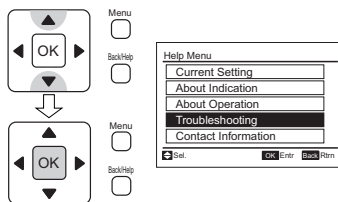
The explanation of indicators on the LCD and operations can be found in the “Help Menu”. The purpose of the “Help” function is to support manual operation.

More details are found below.

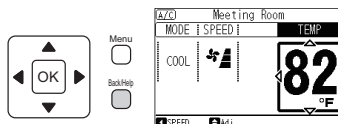
- (1) Press “Back/Help”.
The “Help Menu” will be displayed.



- (2) Select the topic from the “Help Menu” by pressing “Δ” or “∇” and press “OK”.



- (3) To return to the normal mode, press “Back/Help”.



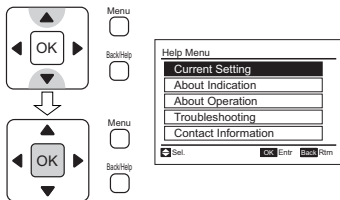
NOTE:

If the “Menu” screen remains unchanged for approximately 10 minutes, the screen will automatically return to the normal mode.

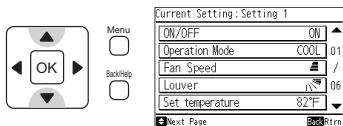
9.2 Current Setting Display

This function displays the setting content of the operating condition of the air conditioning and controller.

- (1) Select "Current Setting" from the "Menu" screen and press "OK".

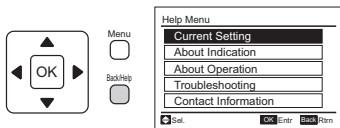


- (2) The "Current Setting" screen displays. Press "Δ" or "∇" to change to the indication "page".



- (3) Press "Back/Help" to return to the "Help Menu".

Press "Back/Help" again to return to the normal mode.



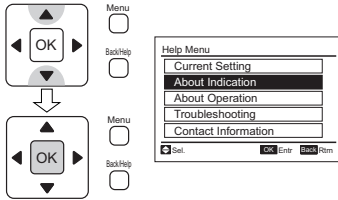
List of indications for the "Current Setting"

Each Type Setting 1	ON/OFF
	Operation Mode
	Fan Speed
	Louver
	Setting Temperature
Each Type Setting 2	Air Conditioning / Ventilation Setting
	Ventilation Mode
	Date
Each Type Setting 3	Room Name
	Main/Sub-Remote
	External Power Saving Control
	Operation Mode / Setting Temperature Priorities
	Operation Noise Reduction
Schedule	Quick Mode
	Simple Schedule
	Operation Schedule
	Outdoor Unit Capacity Control Schedule
	Intermittent Operation Control Schedule
	Noise Reduction Schedule
Lock Operation	Operation Mode
	Fan Speed
	Louver
	Setting Temperature
Central Control	ON/OFF
	Operation Mode
	Fan Speed
	Louver
	Setting Temperature

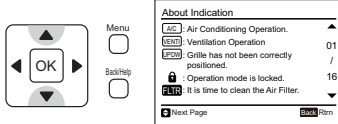
9.3 Indicators on LCD

This function is used for explaining each icon on the LCD.

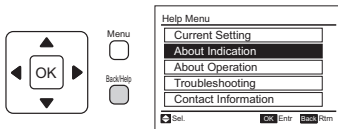
- (1) Select "About Indication" from the "Help Menu" and press "OK". Explanations of indicators on the LCD will be displayed.



- (2) Press "Δ" or "▽" to scroll the information up and down.



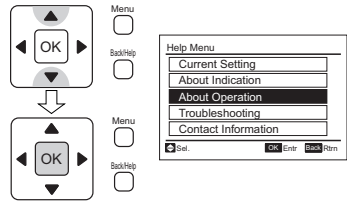
- (3) Press "Back/Help". The screen will return to the "Help Menu".
 - To return to the normal mode, press "Back/Help" again.



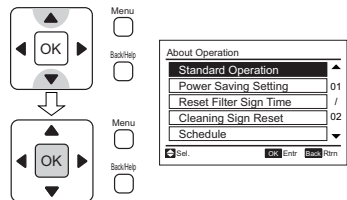
9.4 About Operation

This function is used to explain operations and operation methods.

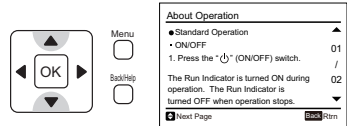
- (1) Select "About Operation" from the "Help Menu" and press "OK". A list of operation functions will be displayed.



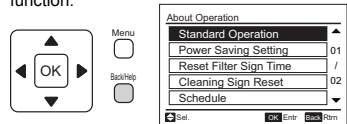
- (2) Select the operation functions from the list by pressing "Δ" or "▽" and press "OK". The explanation of the selected operation will be displayed.



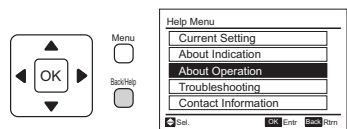
- (3) Press "Δ" or "▽" to scroll the information up and down.



- (4) Press "Back/Help". The screen will return to the operation function.



- (5) Press "Back/Help". The screen will return to the "Help Menu".
 - To return to the normal mode, press "Back/Help" again.

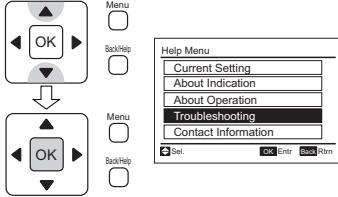


9.5 Troubleshooting

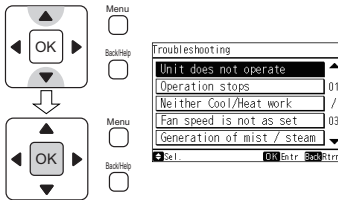
This function is used to troubleshoot operating problems.

Make sure that the troubleshooting section is read carefully before requesting repairs.

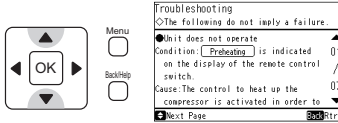
- (1) Select "Troubleshooting" from the "Help Menu" and press "OK".



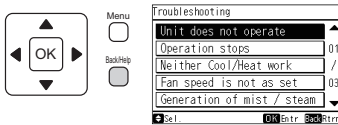
- (2) A list of troubleshooting issues is displayed. Select a problem from the list by pressing "Δ" or "∇" and press "OK". The details of the selected problem will be displayed.



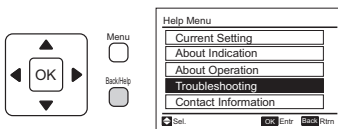
- (3) Press "Δ" or "∇" to scroll the information up and down.



- (4) Press "Back/Help". The screen will return to the list of "Troubleshooting".



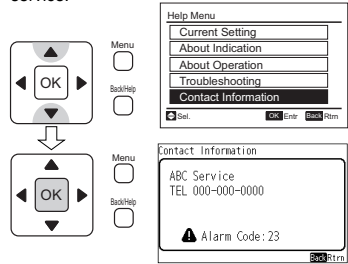
- (5) Press "Back/Help". The screen will return to the "Help Menu".
 - To return to Normal Mode, press "Back/Help" again.



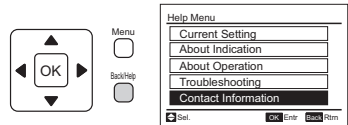
9.6 Contact Information

The screen will display "Contact Information" and the latest alarm code.

- (1) Select "Contact Information" from the "Help Menu" and press "OK". The "Contact Information" and the latest alarm code will be displayed along with contact information for service.



- (2) Press "Back/Help". The screen will return to the "Help Menu".
 - To return to the normal mode, press "Back/Help" again.



10. Other Indications

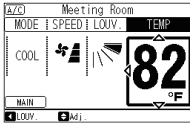
10.1 In Normal Condition

10.1.1 Main / Sub Controller

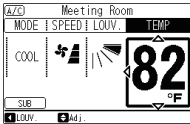
The icon "MAIN" will be displayed as ON when the controller is set as MAIN.

Use the main controller to set principal power saving.

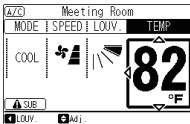
When there is a single controller, the icon "MAIN" will not display as ON.



The icon "SUB" will display as ON when the controller is set as Sub.
The sub controller cannot set power saving except for a part of the power saving function.



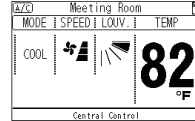
The icon "▲ SUB" will display as ON when the main controller is absent.
In this instance, it is possible that the control with the power saving and the operation noise reduction functions may not operate normally.



10.1.2 Central Control

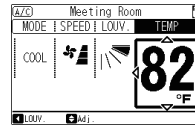
When remote control operation is restricted (all functions)

The central control "🔒" will turn ON.
If the remote control restriction is set from the central controller, the settings for "RUN", "Operation Mode", "Temperature Setting", "Fan Speed", and "Louver" will not be accessible from the controller.



When remote control operation is restricted (some functions)

The icon "🔒" will display as ON.
The function operation which is restricted from the central controller cannot be set.

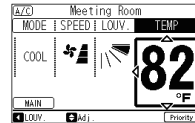


10.1.3 Priorities

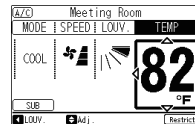
When only the Operation Mode or Operation Mode and Temperature Setting have setting priorities (only when using the main controller).

The icon "Priority" will display as ON.
In this instance, the sub controller "Restrict" icon will display as ON and the setting modifications of the Operation Mode and Temperature Setting from the sub controller will be restricted.

Main Controller



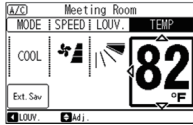
Sub Controller



10.1.4 External Power Saving Control Processing

During Outdoor Capacity Control setting in process of the central controller or outdoor unit The icon "Ext. Sav" will display as ON.

However, if the controller is set for indoor unit rotation or intermittent operation control, the icon will not display as ON.



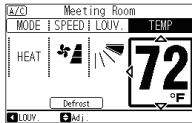
10.1.5 Thermo-Controller

The fan speed is changed to "LOW" at the thermo-controller actuation. However, the indication is not changed. (It changes only in the heating operation mode.)

10.1.6 Defrosting

Only device using both Cooling/Heating (included multi Cooling/Heating device for building)

- When in Defrosting Operation
The icon "Defrost" will display as ON and the indoor fan will turn OFF.
The unit will be situated so the air will blow horizontally.
- When Turning OFF Operation During Defrosting.
The operation light will turn OFF but the operation will continue and the defrosting will stop when complete.

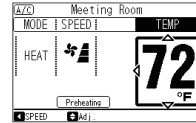


10.1.7 Operation Control

Power Activation

The icon "Preheating" will display as ON. The compressor is preheating.

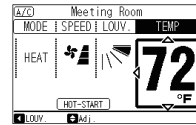
Because the unit cannot operate beyond four hours at a maximum, do not turn OFF the power of the outdoor unit in a Cooling/Heating season. Apply power to the outdoor unit(s) at least 12 hours prior to operation of the system for preheating of the compressor oil.



Activating in Hot Start (only for Heating Mode)

The icon "HOT-START" will display as ON.

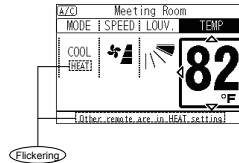
The icon "HOT-START" will turn OFF when the unit is not operating.



In an instance where the operation mode set by the central station is different from the operation mode of the outdoor unit

(when the outdoor unit is operating in a mode other than heat/cool simultaneous operation.)

- The current operation mode and the message "Other remote are in HEAT setting" will be flickering.



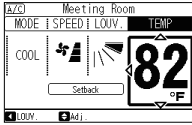
Setback Operation

In case the setback operation is enabled and the card key is removed, setpoint is compensated and fan operate at "Low" speed. During this time, "Setback" is displayed on the LCD.

By default,

Cooling: Setpoint +4°F (+2.5°C)

Heating: Setpoint -4°F (-2.5°C)



NOTE:

Advanced configuration is needed for the use of setback operation and changing compensation for setback. Contact your distributor or dealer for detailed information.

10.2 In Abnormal Condition

10.2.1 Abnormality

- The RUN indicator (red) flashes.
- The indoor unit number, the alarm code, the model code and the connected number of indoor units are displayed on the LCD.
- If two or more indoor units are connected, the above functions for each indoor unit are displayed one-by-one.

10.2.2 Power Failure

- All the indications are OFF.
- Once the unit is stopped by power failure, the unit will not be started again although power recovers. Perform the starting procedures again.
- If the power recovers within two seconds, the unit will start again automatically.

10.2.3 Electromagnetic Interference (EMI)

There could be an instance where all the indications are OFF and the unit is stopped. This can occur through activation of the micro computer for the unit protection from the Electromagnetic Interference (EMI). Perform the starting procedures again.

