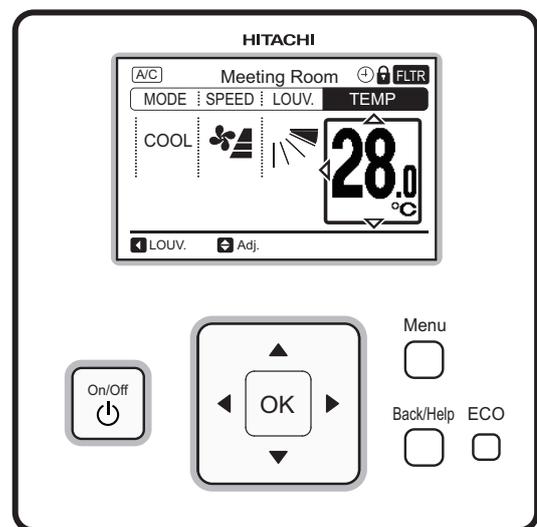


Operation Manual

Wired Controller

- PC-ARF1 -



IMPORTANT:

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

P5417005

IMPORTANT NOTICE

- We pursue a policy of continuing improvement in design and performance of products. The right is therefore reserved to vary specifications without notice.
- We cannot anticipate every possible circumstance that might involve a potential hazard.
- This controller is designed for standard air conditioning only.
- Do not install the controller in the following places. It may cause a fire, deformation, corrosion or failure.
 - * where oil vapor or oil is dispersed (including machinery oil).
 - * where a lot of sulfide gas drifts such as at hot spring.
 - * where inflammable gas may be generated or flowed.
 - * where strong salty wind blows such as coast regions.
 - * with an atmosphere of acidity or alkalinity.
- Pay attention to the following points when the controller is installed in a hospital or other facilities where electromagnetic wave is generated by a medical equipment.
 - * Do not install the controller in the place where the electromagnetic wave is directly radiated to the electrical box, remote control cable or wired controller.
 - * Install the controller at least 3 meters away from electromagnetic wave radiators such as a radio.
- The installer and system specialist shall comply with local regulations or standards for the safety. The following standards may be applicable, if local regulations are not available. International Organization for Standardization, ISO5149 or European Standard, EN378 or Japan Standard, KHKS0010.
- No part of this manual may be reproduced without written permission.
- It is assumed that this controller will be operated and serviced by English speaking people. If this is not the case, the customer should add safety such as caution and operating signs in the native language for non English speakers.
- If you have any questions, contact your distributor or dealer.
- This manual should be considered as a permanent part of the controller and should remain with the controller.

SAFETY SUMMARY

< Signal Words >

- Signal words are used to identify levels of hazard seriousness.
Definitions for identifying hazard levels are provided below with their respective signal words.



: DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.



: WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



: CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



: NOTICE is used to address practices not related to personal injury.

NOTE

: NOTE is useful information for operation and/or maintenance.

TABLE OF CONTENTS

1. Safety Summary	1
2. Button Names and Functions.....	2
3. Operation Method	3
3.1 Basic Procedures	3
3.2 Operation Mode (Cooling, Heating, Dry, Cooling/Heating Automatic and Air Flow Operation)	3
4. Setting Method	4
4.1 Temperature Setting	4
4.2 Fan Speed	4
4.3 Louver Swing Direction	5
5. Operation	5
5.1 Operation Start	5
5.2 Operation Stop	5
6. Operation Lock.....	5
7. Power Saving Guidance	6
8. Menu Operation	7
8.1 Menu	7
8.2 Simple Timer Operation	8
8.3 Reset Filter Sign Time	9
8.4 Scheduled Operation	9
8.4.1 Schedule Setting.....	9
8.4.2 Holiday Setting.....	11
8.4.3 Schedule ON/OFF Setting	12
8.5 Elevating Grille	12
8.6 Power Saving	13
8.6.1 Power Saving Detailed Setting (Outdoor Unit Capacity Control).....	14
8.6.2 Power Saving Detailed Setting (Indoor Unit Rotation Control)	16
8.6.3 Power Saving Detailed Setting (Intermittent Operation Control)	17
8.7 Night Quiet Operation.....	19
8.8 Quick Function	20
8.9 Comfort Setting	21
8.10 Power Saving/Operation Noise Reduction Schedule	22
8.11 Individual Louver Setting	25
8.11.1 Setting.....	25
8.11.2 Cancellation of Louver Setting	26
8.12 Louver Open/Close	26
8.13 Ventilation	27
8.14 Setting of Total Heat Exchanger.....	27
8.15 Adjusting Date/Time	28
8.16 Daylight Saving Time	29
8.17 Screen Display Setting	30
8.17.1 Display Adjustment	30
8.17.2 Language Setting	31
8.17.3 Temperature Unit	31
8.17.4 Main/Sub Remote Controller	32
8.18 Room Name Registration	33
8.19 Power Consumption Display	34

TABLE OF CONTENTS

9. Help Menu.....	35
9.1 Help Menu.....	35
9.2 Current Setting Display	36
9.3 Indicators on LCD	37
9.4 About Operation	37
9.5 Troubleshooting	38
9.6 Contact Information	38
10. Other Indications.....	39
10.1 In Normal Condition.....	39
10.1.1 Main / Sub Controller.....	39
10.1.2 Central Control.....	39
10.1.3 Priorities.....	39
10.1.4 External Power Saving Control Processing.....	40
10.1.5 Thermo-Controller.....	40
10.1.6 Defrosting	40
10.1.7 Operation Control	40
10.2 In Abnormal Condition.....	41
10.2.1 Abnormality.....	41
10.2.2 Power Failure.....	41
10.2.3 Electromagnetic Interference (EMI).....	41

1. Safety Summary

DANGER

- Do not pour water into the wired controller (hereafter called “controller”). This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.
- Do not operate switches with wet hand. It may cause an electrical shock.
- In case that the protective devices often function or the operation switches do not function well, turn OFF the main power supply and contact your distributor or dealer.
- In case that other abnormalities are found, stop the system, turn OFF the main power supply and contact your distributor or dealer.

WARNING

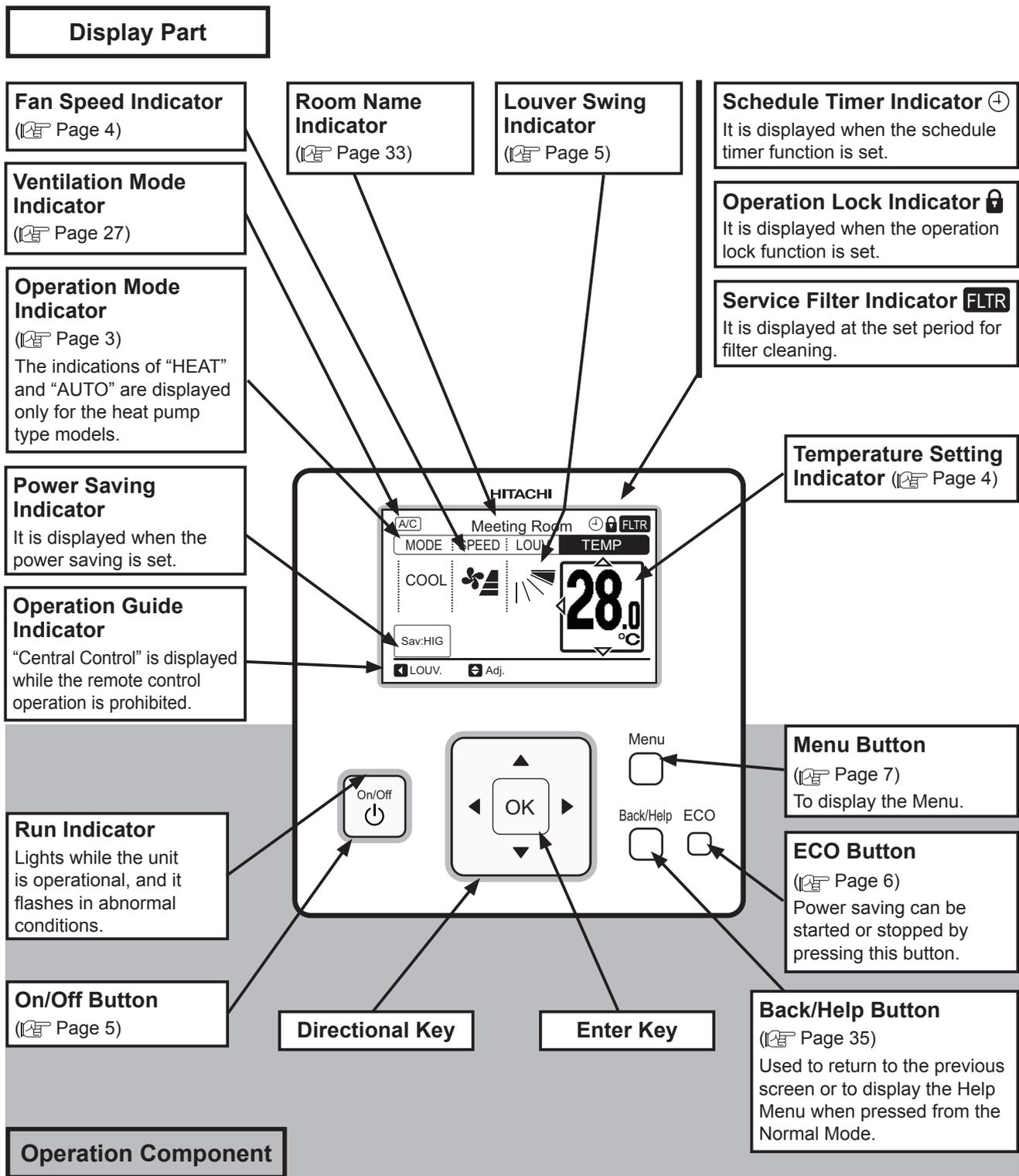
- Do not perform installation work and electrical wiring connection by yourself. Contact your distributor or dealer of and ask them for installation work and electrical wiring by service person.
- Do not modify the electrical wiring. It may cause serious accident.

CAUTION

- Do not install the indoor unit, outdoor unit, controller and cable at such places as;
 - (1) where oil vapor or oil is dispersed
 - (2) where the hot springs are near (in a sulfuric environment)
 - (3) where generation, flowing, staying or leaking of flammable gas is detected
 - (4) where the sea is near (in the salty environment)
 - (5) an acid or alkaline environment
 - Do not install the indoor unit, outdoor unit, controller and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the controller is installed in a place where there is electromagnetic wave radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.
 - In case that electric noise is applied at the power source for the indoor unit, provide a noise filter.
-

2. Button Names and Functions

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



NOTE:

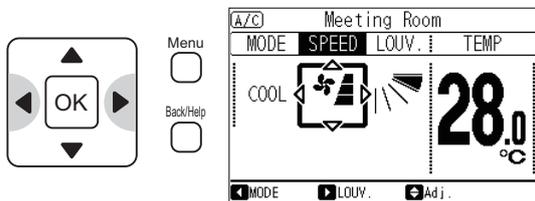
Make sure to press the buttons lightly with your fingertips. Do NOT press the buttons or anything with sharp points, such as a ball point pen. The operational functionality of the controller may become damaged.

3. Operation Method

3.1 Basic Procedures

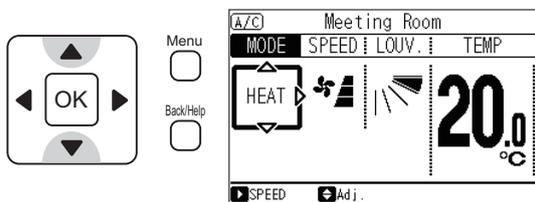
(1) Function Selection

By pressing “◀” or “▶”, the icon “



(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: 27 to 29°C
- * Heating Operation: 18 to 20°C
- * Dry Operation: 23 to 25°C

<Before Operation>

CAUTION

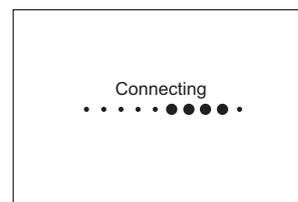
Apply power to the outdoor unit(s) at least 12 hours prior to operation of the system for preheating of the compressor oil.

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

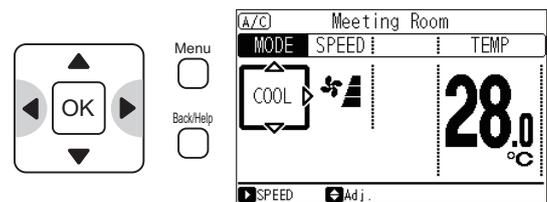
Make sure that the outdoor unit is not covered with snow or ice. If covered, remove it by using warm water less than 50°C.

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

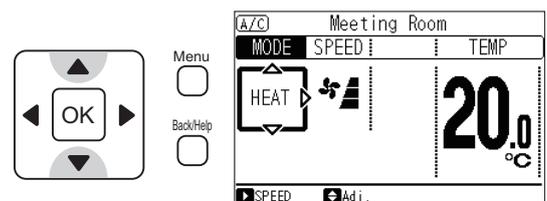
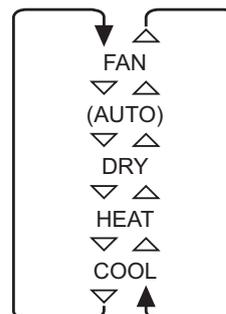
- (1) Turn ON the power supply.



- (2) Press “◀” or “▶” and select “MODE”.



- (3) By pressing “Δ” or “∇”, the operation mode will be changed as follows.



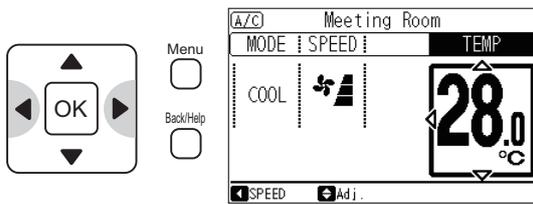
NOTE:

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

4. Setting Method

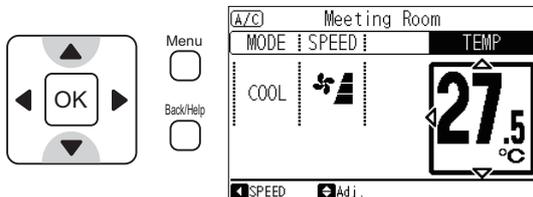
4.1 Temperature Setting

- (1) Press “◀” or “▶” and select “TEMP”.



- (2) By pressing “Δ”, the temperature is increased by 0.5°C to a maximum of 30°C. By pressing “∇”, the temperature is decreased by 0.5°C.

- * Cooling, Dry, Air Flow operation:
A minimum of 19°C
- * Heating operation: A minimum of 17°C

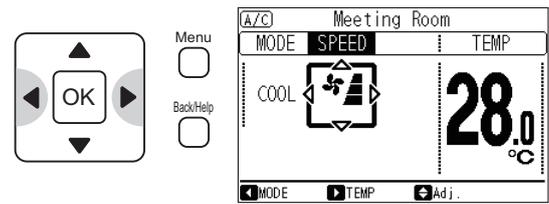


NOTE:

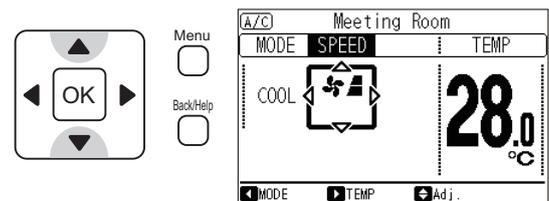
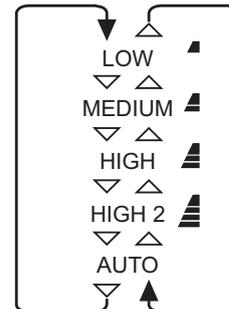
- Depending on the type and setting of the indoor unit, it may not be possible to set the temperature by 0.5°C.
- The max./min. temperature may differ depending on the type of indoor unit.
- Minimum and maximum temperature set-point limits can be configured by selecting a cooling lower limit and heating 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.

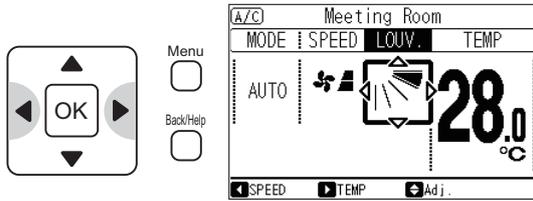


NOTE:

- 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

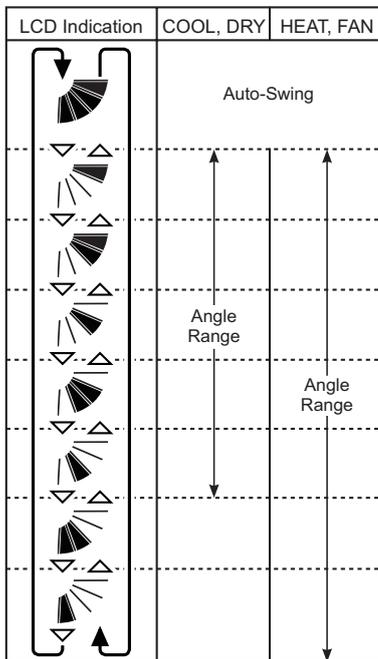
- Press “” (On/Off).
Make sure that the power is ON.
Press “” or “” and select “LOUV.”.



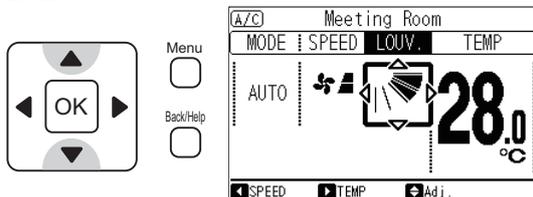
NOTE:

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

- By pressing “” 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.



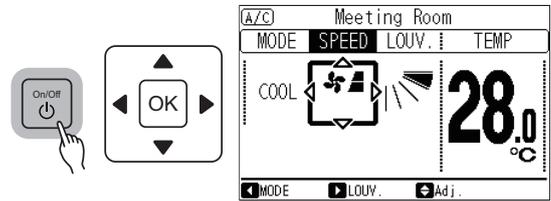
NOTE:

- The air flow angle is different for each indoor unit type. Check for detailed information in “Louver Swing 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.

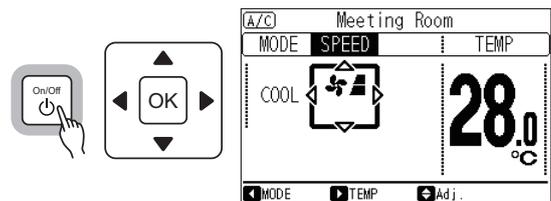


NOTE:

< Temperature/Air Flow Setting >
Temperature set-point and air flow 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.

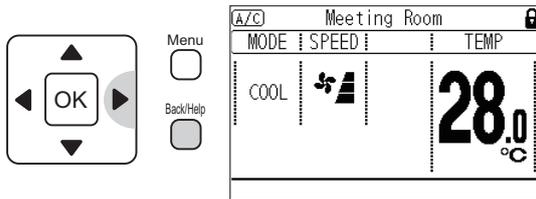
6. Operation Lock

- 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.)

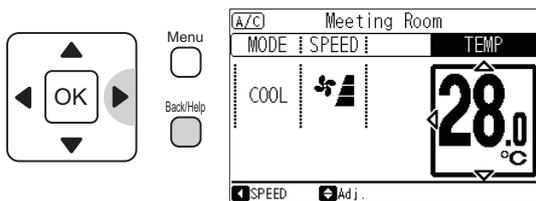
NOTE:

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.

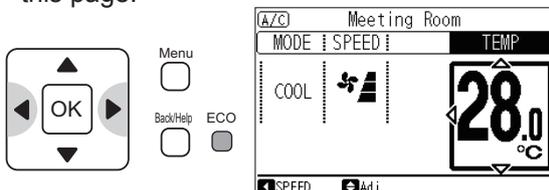
7. Power Saving Guidance

- This function easily sets the power-saving feature.
- Depending on the type and setting of the indoor unit and outdoor unit it may be impossible to set this function.

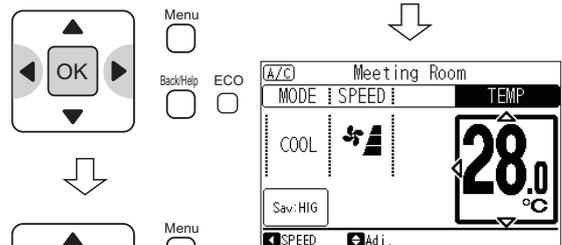
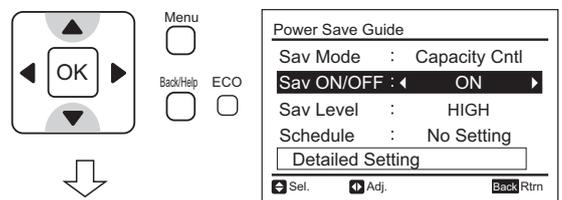
NOTE:

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



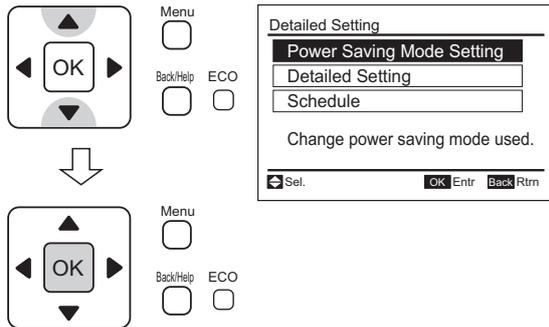
The icon “Sav : HIG” is displayed when “Power Saving” is ON.

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

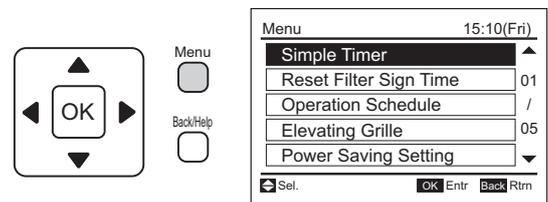
- Every function setting is displayed in the “Menu”.
- Refer to Sections 8.2 to 8.19 for each function.
- Depending on the type and setting of the indoor unit and outdoor unit it may be impossible to set this function.

NOTE:

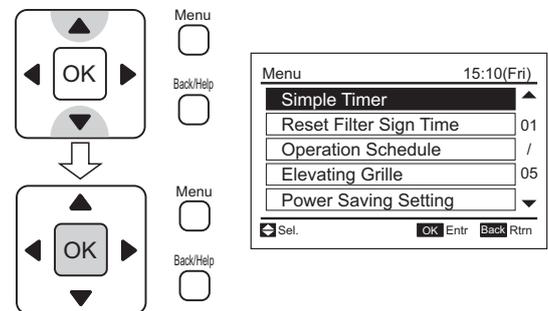
☒: Unable to set:

If a function with “☒” is selected from the “Menu”, “No Function” or “Setting Disabled” will be displayed on the lower screen.

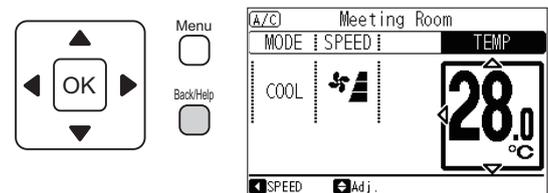
- (1) Press “Menu”.
The menu will be displayed.



- (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).



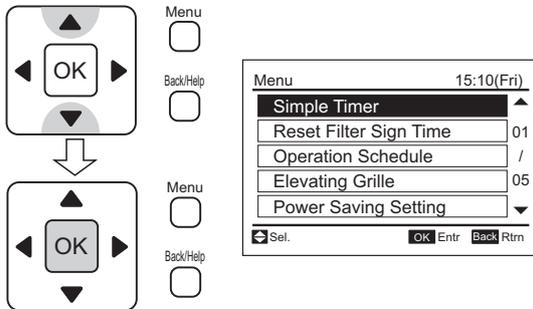
NOTE:

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”.

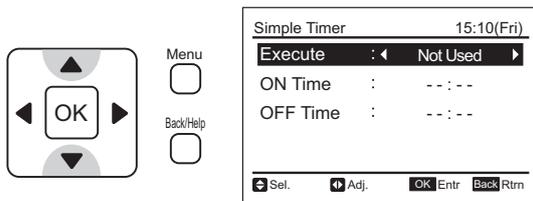
- (1) Select “Simple Timer” from the “Menu” and press “OK”.
The “Simple Timer” setting will be displayed.



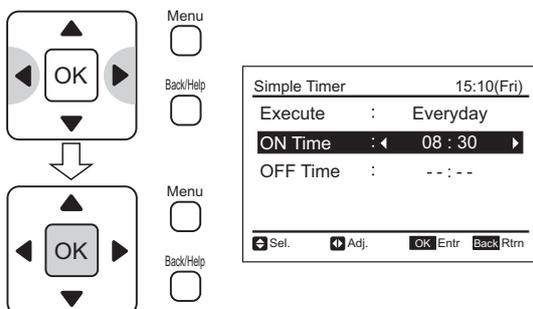
NOTE:

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 “△” or “▽” to select the setting data. The setting data are displayed “Timer Ope.”, “ON Time” and “OFF Time”.



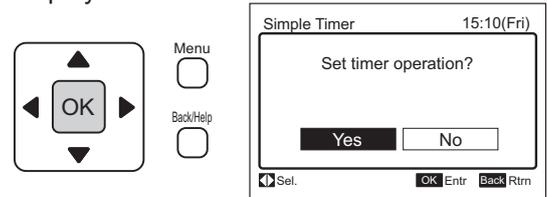
- (3) Press “◀” or “▶” to set each setting data for the selected details.
When “Timer Ope.” is selected, the setting contents are switched between “Not Used” ↔ “Once” ↔ “Everyday” by repeatedly pressing “◀” or “▶”.
When “ON Time” or “OFF Time” is selected, the setting time can be adjusted by 30-minute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



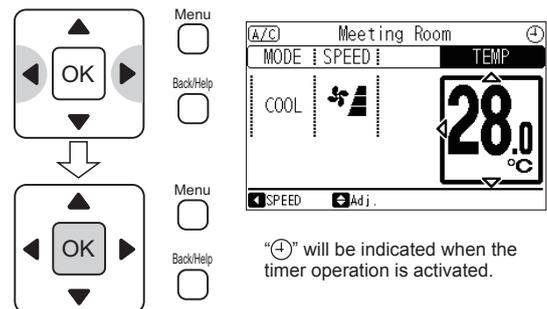
NOTE:

- 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:

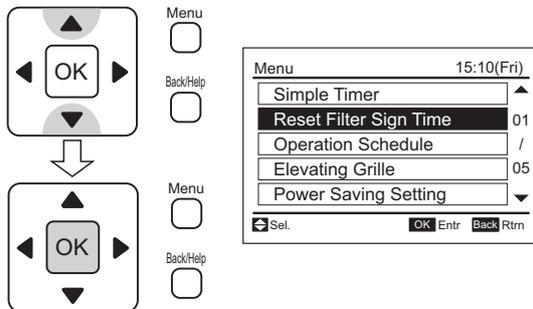
If the following happens, the “Simple Timer” operation is NOT available:

- * 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”.

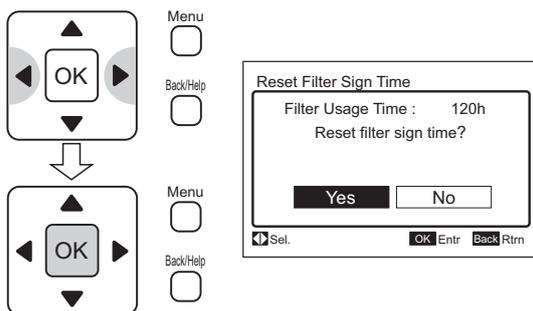
8.3 Reset Filter Sign Time

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.

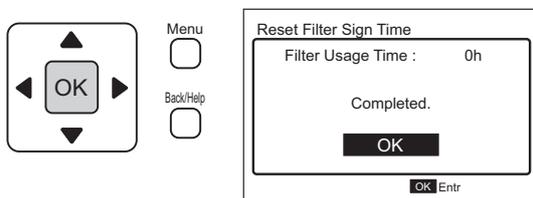


- (2) Select "Yes" by pressing "<" or ">" and press "OK".
After resetting, the confirmation screen of "Reset Filter Sign Time" will display. Depending on the type of the indoor unit, the screen will return to the normal mode.



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

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

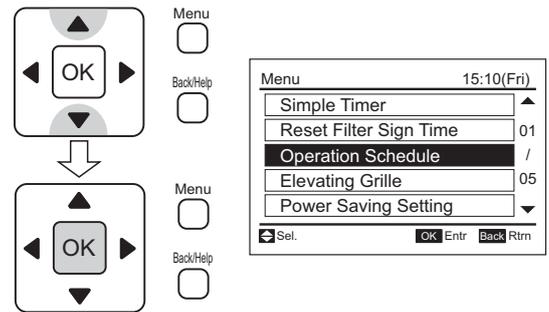


8.4 Scheduled Operation

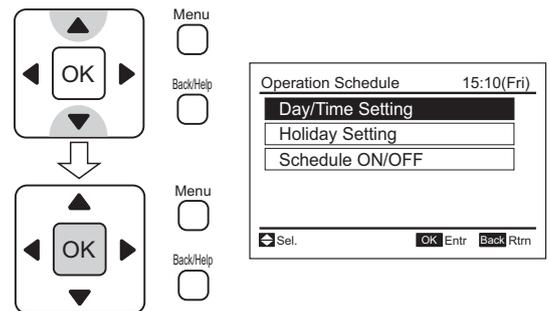
8.4.1 Schedule Setting

- 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".

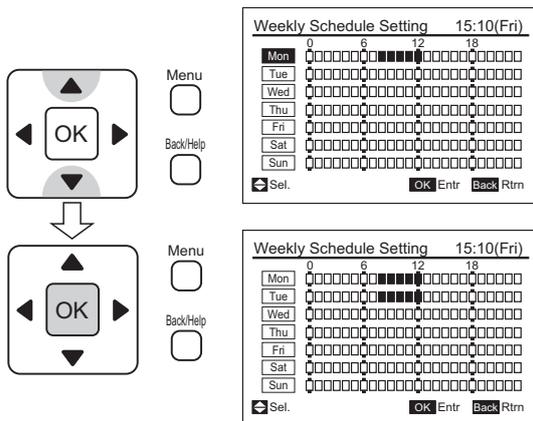
(3) Select the day of the week (from Mon. to Sun.) by pressing “Δ” or “∇”. Press “OK”.

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

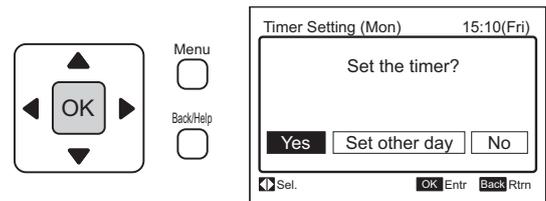
< Example >

The setting contents of Monday are copied in Tuesday.

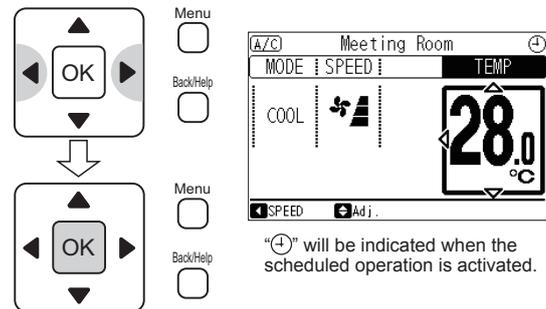
- Select “Tue”.
- Press “◀” and “OK” simultaneously.
- The setting contents of Monday are copied in Tuesday.



(5) Press “OK”. The confirmation screen will be displayed.



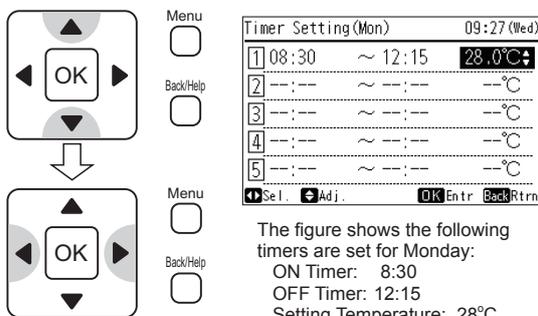
(6) Select “Yes” by pressing “◀” or “▶” and press “OK”. The setting will be confirmed and the screen will return to normal mode. To set other days of the week, select “Set other day” and press “OK”.



“(+)” will be indicated when the scheduled operation is activated.

(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.



The figure shows the following timers are set for Monday:
 ON Timer: 8:30
 OFF Timer: 12:15
 Setting Temperature: 28°C

NOTE:

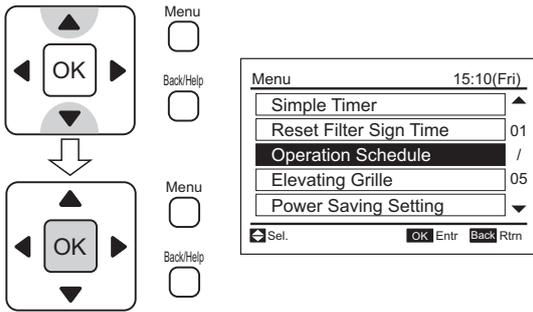
In the following instances, the schedule operation is NOT available;

- * 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”.

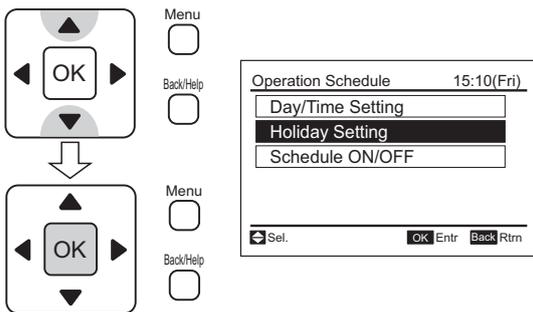
8.4.2 Holiday Setting

- 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.

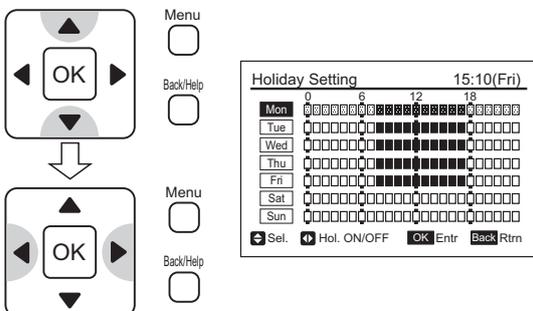


- (2) Select "Holiday Setting" by pressing "Δ" or "∇" and press "OK".

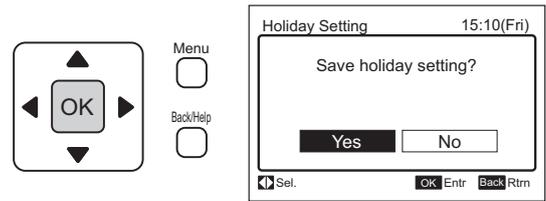


- (3) Select the day of the week to stop the operation by pressing "Δ" or "∇".
Select "Hol. ON/OFF" by pressing "◀" or "▶".

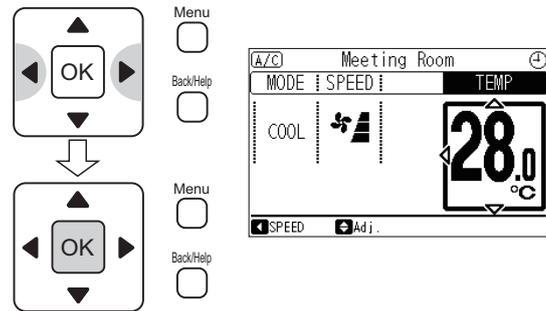
- "■" and "□" will be changed to "⊞" and "⊞" on the LCD.



- (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.



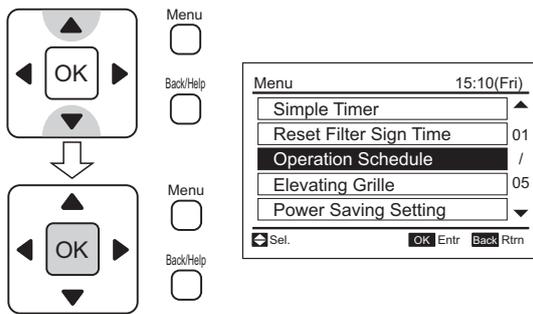
NOTE:

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

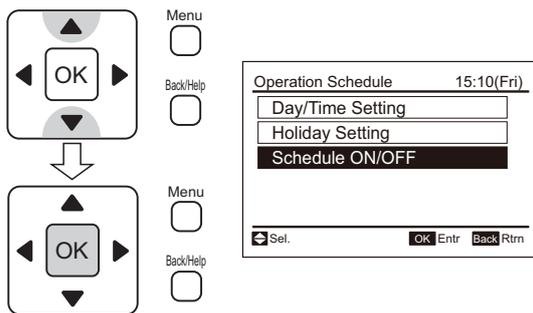
8.4.3 Schedule ON/OFF Setting

- 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.

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

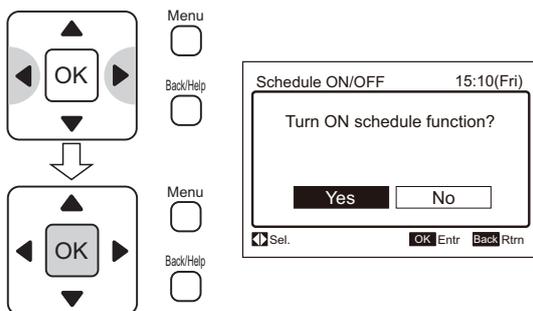


- (2) Select “Schedule ON/OFF” by pressing “ Δ ” or “ ∇ ” and press “OK”. The confirmation screen will be displayed.



- (3) Select “Yes” by pressing “ \leftarrow ” or “ \rightarrow ” and press “OK”. The schedule ON/OFF setting will be confirmed and the screen will return to the normal mode.

- “ \oplus ” will be turned on when schedule operation is ON.
- “ \ominus ” will be turned off when schedule operation is OFF.



NOTE:

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

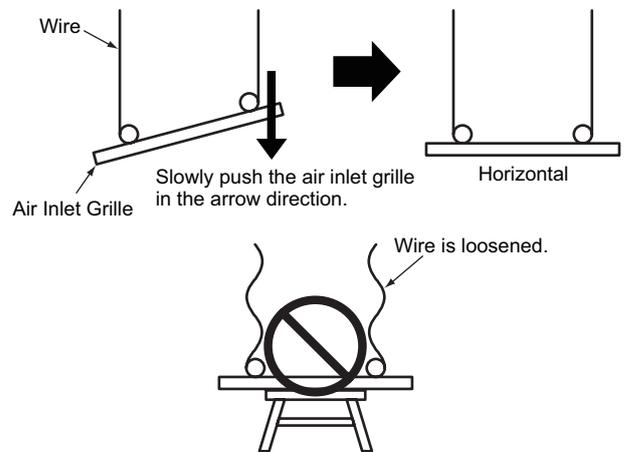
8.5 Elevating Grille

This function is available only when the elevating grille is equipped with the air panel.

⚠ CAUTION

< Caution of Setting Elevating Grille into Air Panel After Cleaning >

When the air inlet grille is set inside the air panel, ensure that the air inlet grille is horizontal and the wire is suspended tightly without loosening. After the above is ensured, set the air inlet grille. If the air inlet grille is inclined and the wire is loosened, they may be caught in the pulley. It may lead to a failure of the pulley or pulley block. If the worst happens, it may cause personal injury due to falling the air panel.

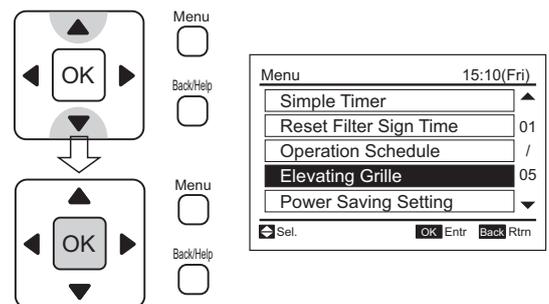


This function is for the air inlet grille automatically moves upward or downward from the air panel when cleaning the air filter and air inlet grille.

NOTES:

- This function is available only when the elevating grille is equipped with the indoor unit.
- Make sure that the unit operation is stopped before using the elevating grille.
- The elevating grille function is not available when the unit is operated.

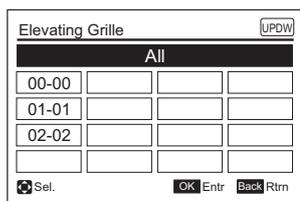
- (1) Select “Elevating Grille” from the “Menu” and press “OK”.



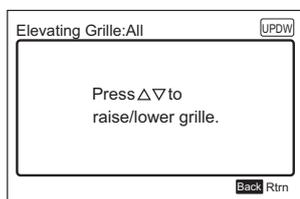
NOTE:

If the number of indoor unit connected with the controller is 1 (one), (3) will be displayed after the procedure (1).

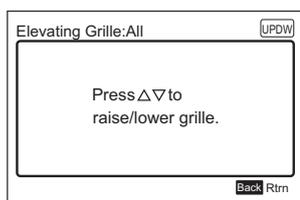
- (2) Select the indoor unit by pressing “△”, “▽”, “◀” or “▶”. Press “OK”.



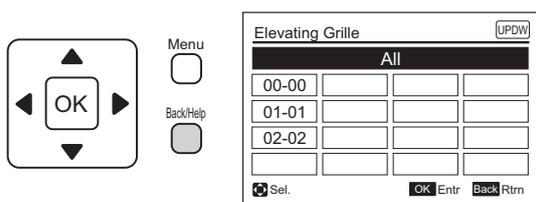
- (3) Press “▽”.
The elevating grille starts lowering.
- Once “▽” is pressed, the elevating grille lowers to the specified height.
 - If “▽” is pressed once again, the elevating grille lowers by 50cm from the present height. (When “▽” is pressed each time, the elevating grille lowers respectively by 50cm.)
 - To stop the elevating grille, press “△”.



- (4) When the cleaning is finished, press “△”.
The elevating grille starts rising. The grille will be set inside the air panel and stopped moving after 3 seconds.
(If the air inlet grille is inclined at this time, press “△” again. An inclination may be corrected.)



- (5) Press “Back/Help”.
The screen will return to (2).
(If necessary, set the elevating grille for other indoor units.)
To finish the setting, press “Back/Help” again. The screen will return to the menu.
If “Back/Help” is pressed once again, the screen will return to the normal mode.



NOTE:

If the number of indoor unit connected with the controller is 1 (one), the screen will return to the normal mode after “Back/Help” is pressed.

8.6 Power Saving

- Depending on the type and setting of the indoor unit and outdoor unit it may be impossible to set this function.

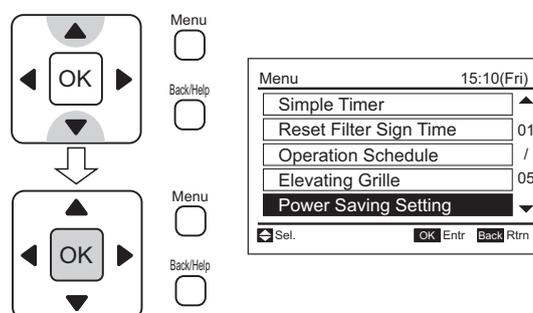
<Function>

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.

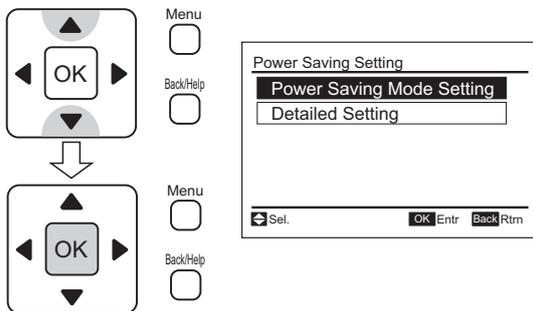
NOTE:

- 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.

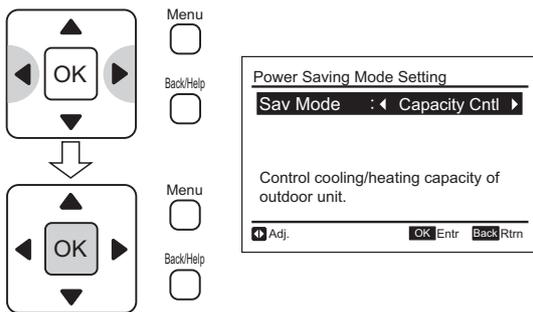


- (2) Select "Power Saving Mode Setting" by pressing "▲" or "▼" and press "OK". The "Power Saving Mode Setting" screen will be displayed.

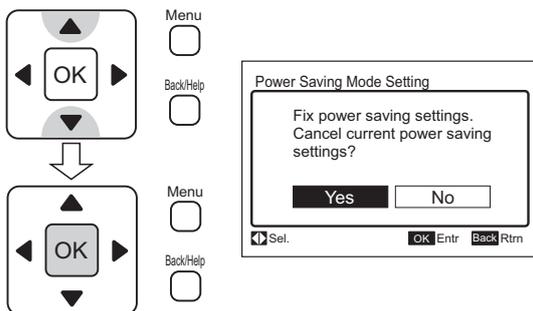


- (3) By pressing "◀" or "▶", "Power Saving Mode Setting" will change between: Capacity Control ↔ Rotation Control ↔ Intermittent Control ↔ No Setting

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)

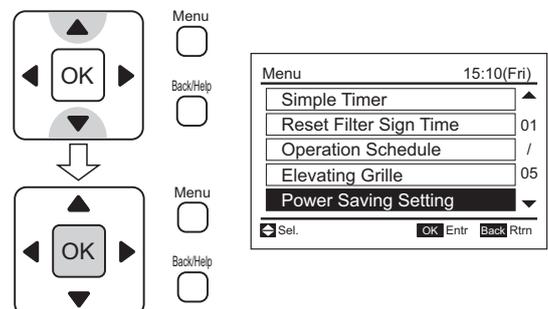
This function is used to set the detail of the outdoor unit capacity control.

- Depending on the type and setting of the indoor unit and outdoor unit it may be impossible to set this function.
- 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.

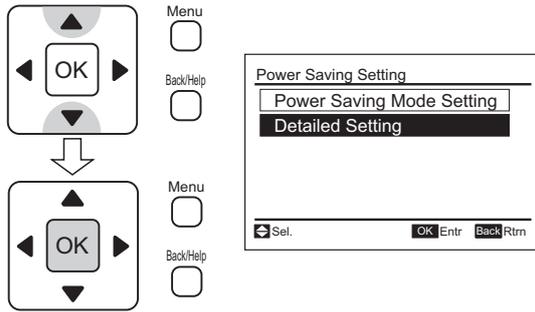
NOTE:

- 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.

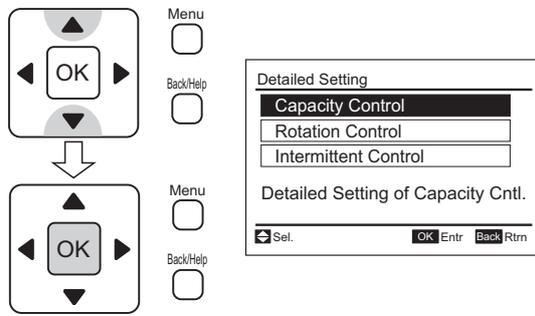
- (1) Select "Power Saving Mode Setting" from the "Menu" and press "OK". The "Power Saving Setting" screen will be displayed.



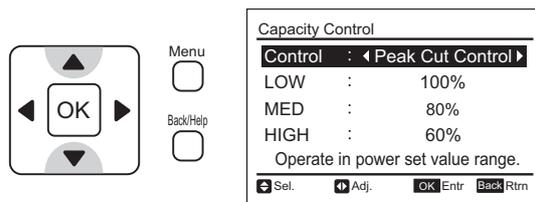
- (2) Select "Detailed Setting" by pressing "Δ" or "∇" and press "OK".
The power saving "Detailed Setting" screen will be displayed.



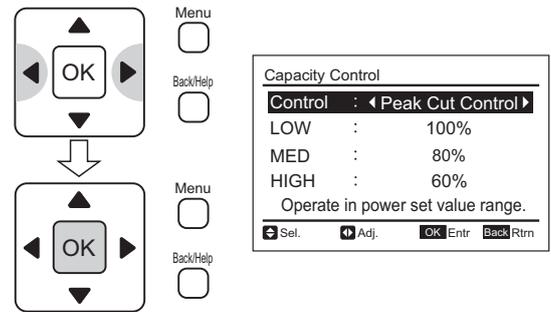
- (3) Select "Capacity Control" using "Δ" or "∇" and press "OK".
The outdoor unit "Capacity Control" screen will be displayed.



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

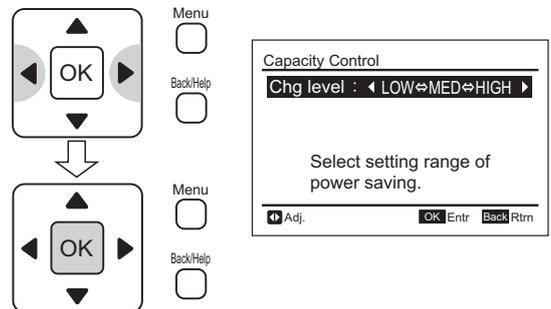


- (5) Press "◀" or "▶" and select setting content.
• If "Control Method" is selected, it will change as follows :
"Peak Cut Control" ↔ "Moderate Control".
• If "Sav LOW (MED or HIGH)" is selected, it will change as follows :
"100%" ↔ "90%" ↔ "80%" ↔ "70%" ↔
"60%" ↔ "50%" ↔ "40%" ↔ "0%".
Press "OK" after completing all settings.
The next setting screen will be displayed.

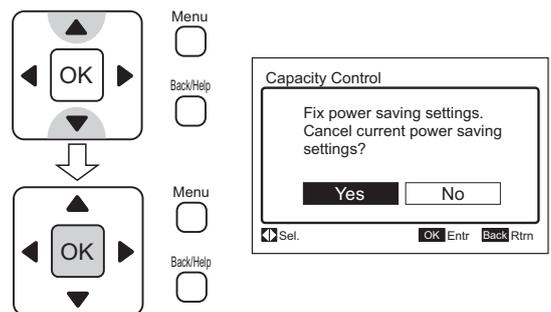


- (6) By pressing "◀" or "▶", the setting function will change as follows
"LOW→MED→HIGH" ↔ "LOW Only" ↔
"MED Only" ↔ "HIGH Only".

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.

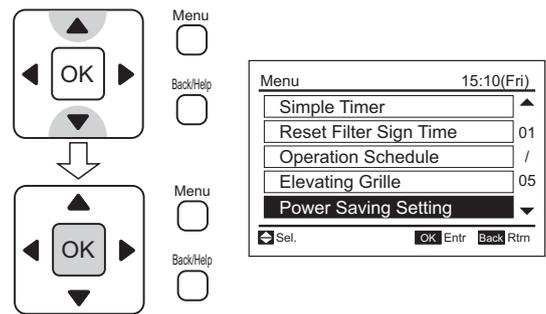
- FAN Operation Time

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

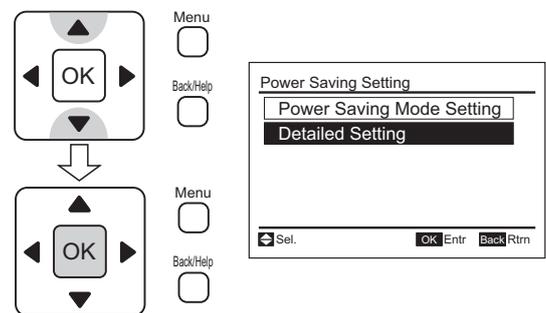
NOTE:

- 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.

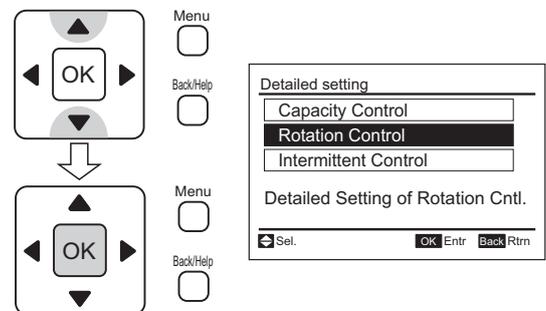
- Select “Power Saving Setting” from the “Menu” and press “OK”.



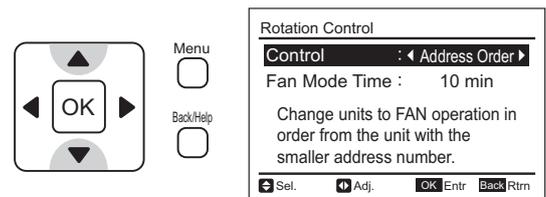
- The “Power Saving Setting” screen will be displayed. Select “Detailed Setting” with “Δ” or “▽” and press “OK”.



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

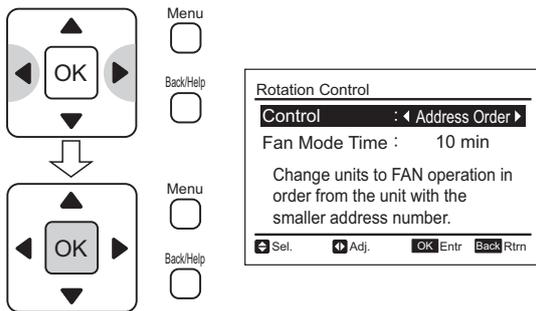


- Press “Δ” or “▽” and select the setting.
The setting will change as follows.
“Control Method” ↔ “FAN Mode Time”

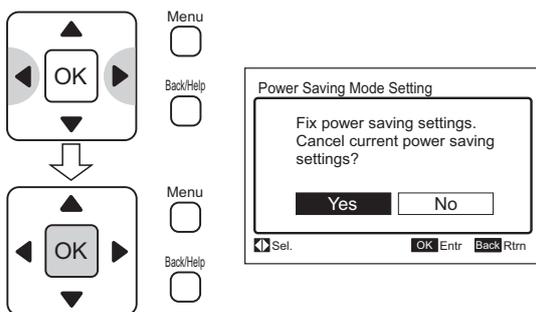


- (5) Press “◀” or “▶” and select the setting content.
- If “Control Method” is selected, it will change as follows:
“Address Order” ↔ “Temperature Order”
↔ “Sensor Order* ”
 - If “FAN Mode Time” is selected, it will change between:
“10 min.” ↔ “5 min.” ↔ “3 min.”
- Press “OK” when all settings have 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 “◀” or “▶” 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”.

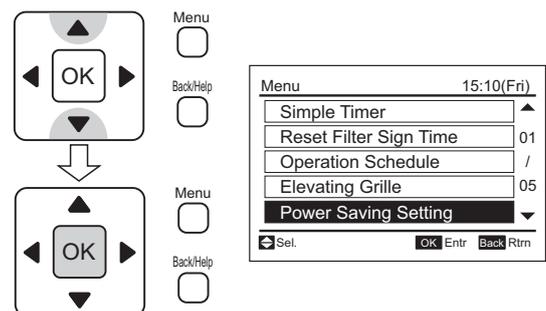
NOTE:

- 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 :

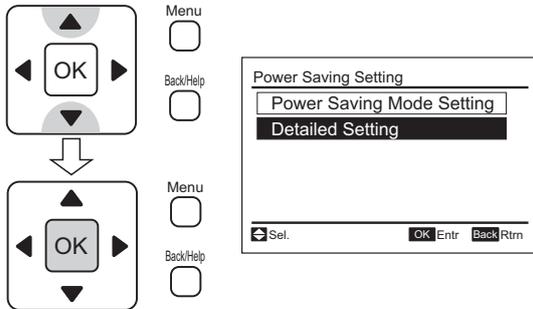
	Cool / Dry Mode	Heat Mode
SAV:LOW	Normal Mode 20min. ↓ Fan Mode 10min.	Normal Mode 25min. ↓ Fan Mode 5min.
SAV:MED	Normal Mode 17min. ↓ Fan Mode 13min.	Normal Mode 20min. ↓ Fan Mode 10min.
SAV:HIGH	Normal Mode 15min. ↓ Fan Mode 15min.	Normal Mode 15min. ↓ Fan Mode 15min.

- 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.

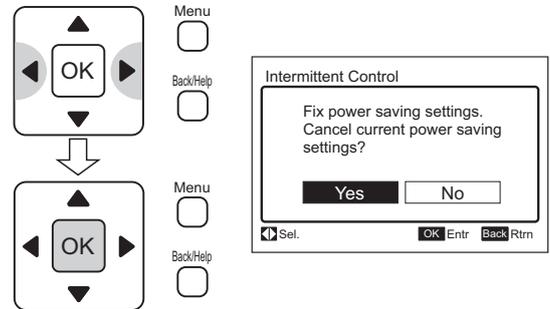
- (1) Select “Power Saving Setting” from the “Menu” and press “OK”. The “Power Saving Setting” screen will be displayed.



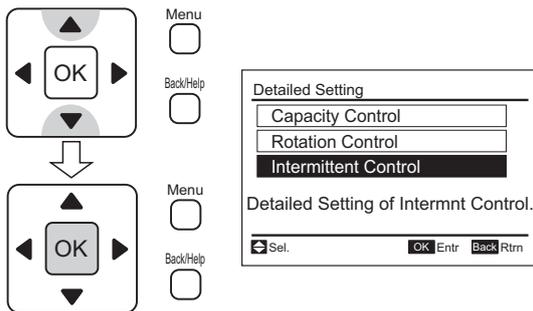
- (2) Select "Detailed Setting" with "△" or "▽" and press "OK".
- When using a main controller, the "Power Saving Detailed Setting" screen will be displayed. Refer to (3) below.
 - When using a sub controller or if the indoor unit does not support power saving, the "Detailed Setting" of the "Intermittent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



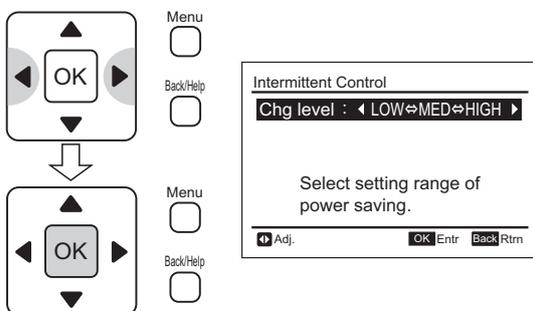
- (5) The setting confirmation screen will be displayed. Select "Yes" with "◀" or "▶" and press "OK" to confirm the setting. The screen will return to normal mode. If the "Power Saving Setting" setting is accessible, set it "ON" using "Power Saving Guidance".



- (3) Select "Intermittent Control" with "△" 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.



8.7 Night Quiet Operation

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

- Depending on the type and setting of the indoor unit and outdoor unit it may be impossible to set this function.

NOTE:

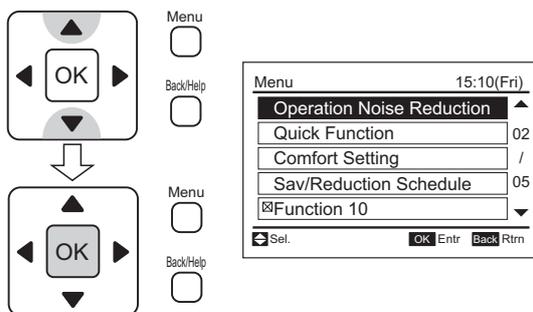
- The “Main/Sub-Remote” display in the “Current Setting” of the “Help Menu” cannot be set if “Sub” or “--” is displayed.
- Depending on the operation noise reduction setting below, it is possible to change the function setting to reduce the noise of the outdoor unit.

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

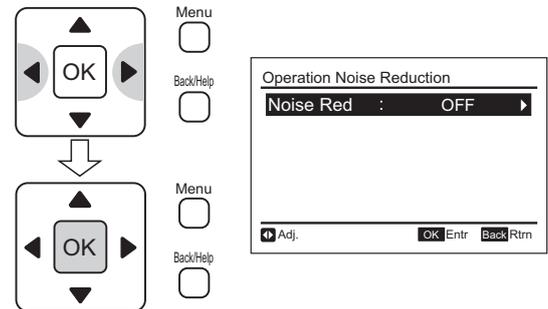
If questions arise concerning the amount of noise, contact your distributor for detailed information.

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

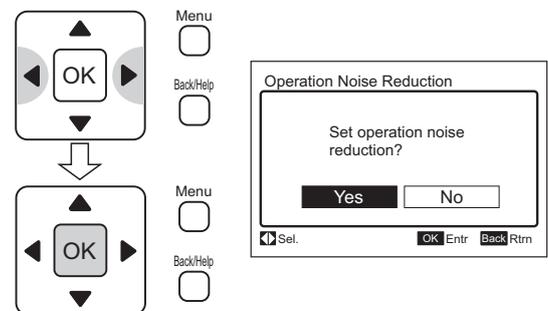
- Select “Operation Noise Reduction” from the “Menu” and press “OK”.
The “Operation Noise Reduction” setting screen will be displayed.



- 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.

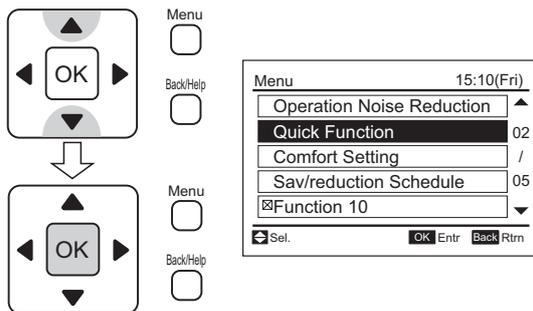
The unit will start each time in quick mode until the setting is canceled.

NOTE:

- Depending on the type and setting of the indoor unit and outdoor unit it may be impossible to set this function.
- 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.

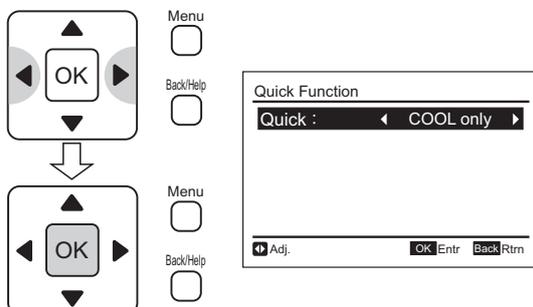
- Select "Quick Function" from the "Menu" and press "OK".

The "Quick Function" screen will be displayed.

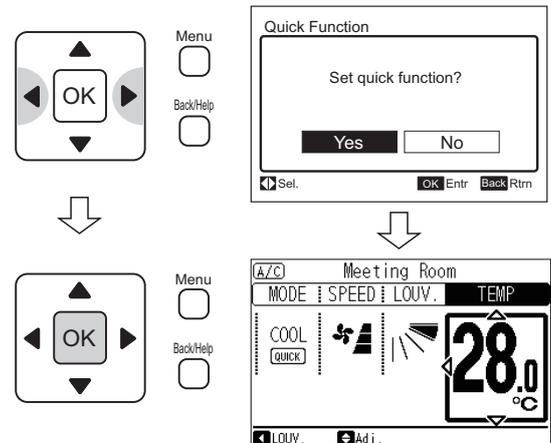


- By pressing "<" or ">" the "Quick" mode will change as follows :
OFF ↔ COOL Only ↔ HEAT Only ↔ COOL + HEAT

Select the "Quick" mode 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.



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

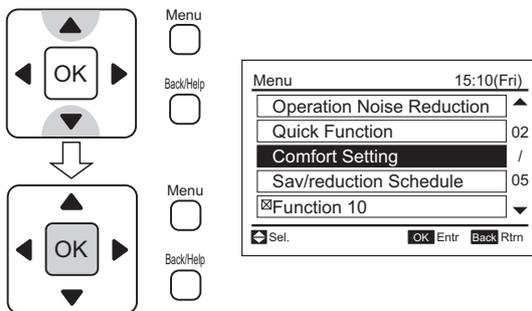
8.9 Comfort Setting

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

NOTE:

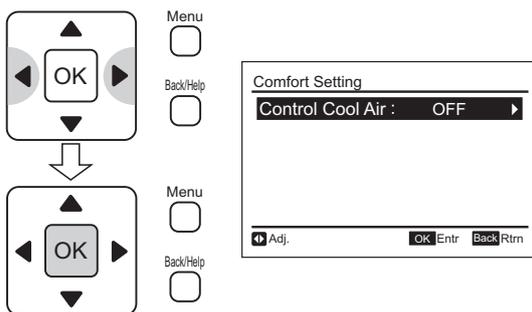
- The indoor unit cannot be set when the function is not supported.
- The cool air level order is as follows: "HIGH" > "MED" > "LOW" and the temperature of the discharged air is high.
- It is possible the operation may not function if there are more than two units operating.
- When this function is set,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

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

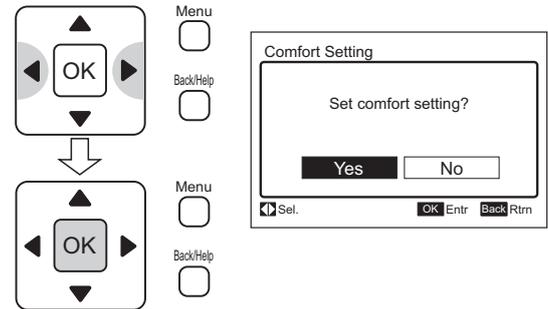


- (2) By pressing "◀" or "▶" the Comfort Setting Mode will change as follows :
OFF ↔ LOW ↔ MED ↔ HIGH

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



- (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.



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.

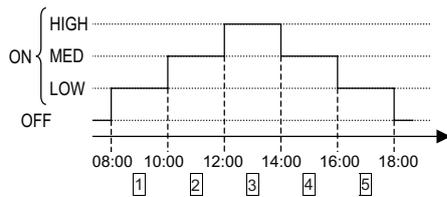
The "Power Saving Schedule" setting performs the scheduled control of the mode set by the "Power Saving" mode.

- Depending on the type and setting of the indoor unit and outdoor unit it may be impossible to set this function.

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

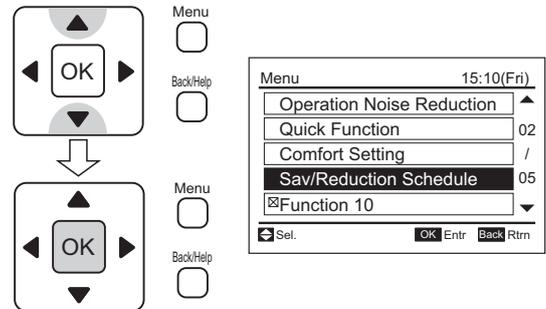
Capacity Control (Mon)		15:10(Fri)
1	08:00 ~ 10:00	LOW
2	10:00 ~ 12:00	MED
3	12:00 ~ 14:00	HIGH
4	14:00 ~ 16:00	MED
5	16:00 ~ 18:00	LOW

Example 2

 INCORRECT

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

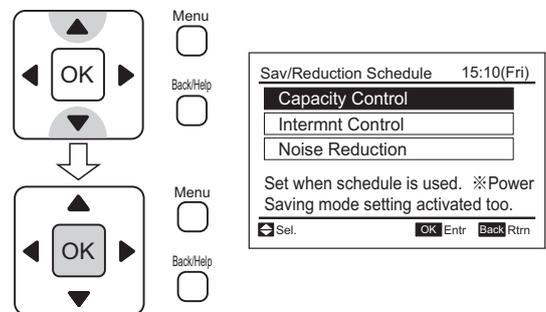
- Select "Sav/Reduction Schedule" from the "Menu" and press "OK".
The power saving/operation noise reduction schedule setting screen will be displayed as "Sav/Reduction Schedule".
When using a Sub controller or if the indoor unit does not support power saving, the power saving schedule setting of the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



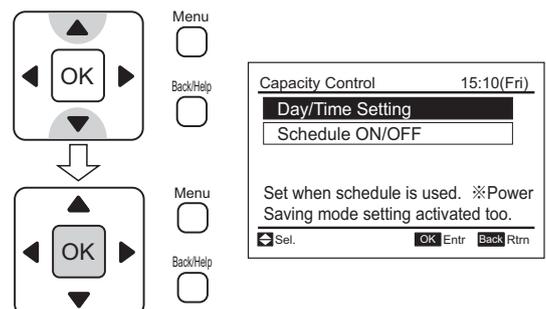
- By pressing "Δ" or "∇", select the setting item.
The setting will change as follows:
"Capacity Control" ↔ "Intermittent Control"
↔ "Noise Reduction"

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.



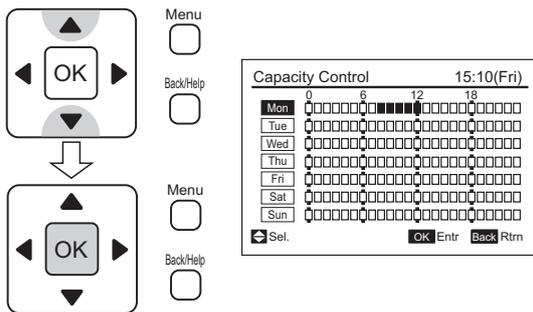
When the current time is not set, the "Time Adjusting" screen will be displayed automatically.

(4) Select the day set with “△” 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 “□”.

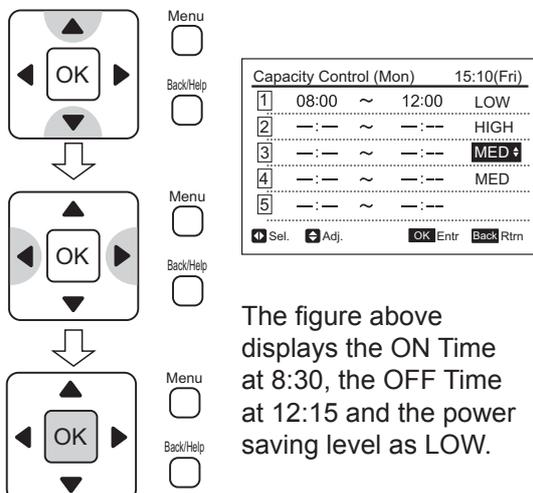
- To copy a setting, press “◀” and “OK” simultaneously for the selected day. The setting data of the previous day will be copied.



(5) Select the schedule number from 1 to 5 with “△” or “▽”. Then select “ON Time” or “OFF Time” or “Power Saving level” (or “Operation Noise Reduction level”) with “◀” or “▶”.

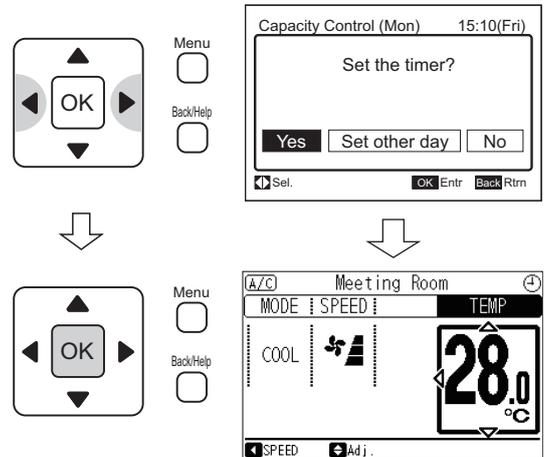
Set the ON/OFF time or the “Power Saving level” (or “Operation Noise Reduction”) with “△” or “▽”.

- When pressing continuously “△” 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”.



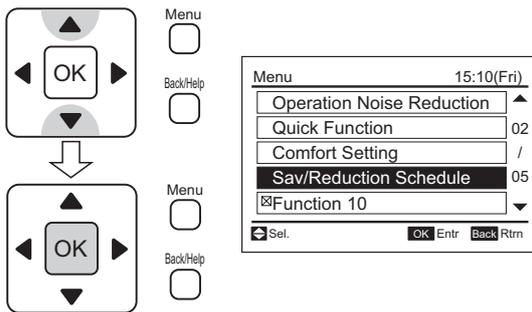
If the schedule control is activated, the icon “⊕” will be displayed.

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.

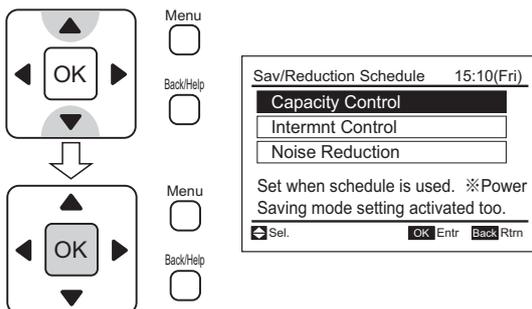
- (1) Select "Sav/Reduction Schedule" from the "Menu" and press "OK".
The power saving/operation noise reduction schedule setting screen will be displayed as "Sav/Reduction Schedule".



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

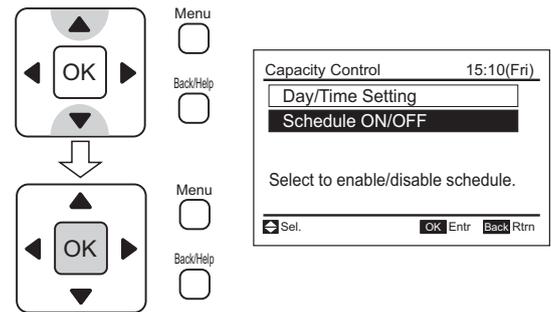
Press "OK".

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.

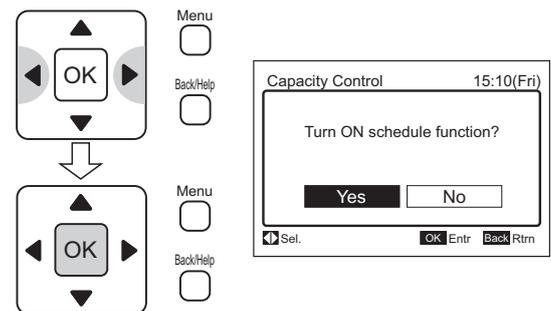
- (3) Select "Schedule ON/OFF" with "△" or "▽" and press "OK".



- (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

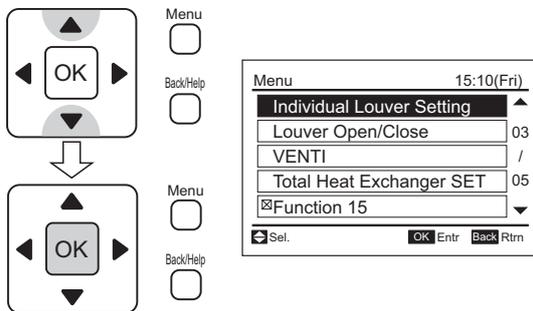
8.11.1 Setting

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

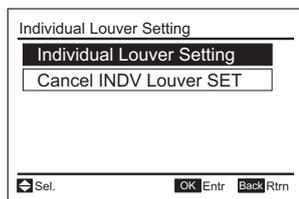
NOTE:

- 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 Thermo-Controller”, 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.



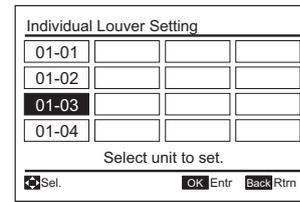
- (2) Select “Individual Louver Setting” from the “Individual Louver Setting” menu and press “OK”.



NOTE:

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

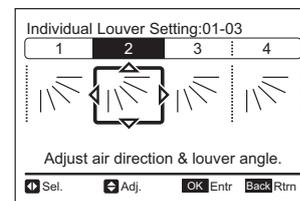
- (3) Select the indoor unit to change the louver direction by pressing “Δ”, “∇”, “◁” or “▷”. Press “OK”.



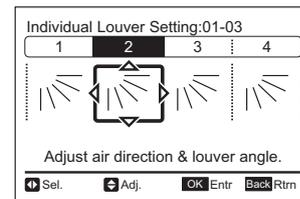
NOTE:

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”.



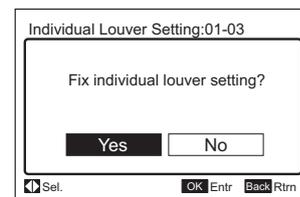
The louver angle will be changed as follows.



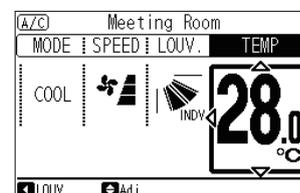
NOTE:

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.

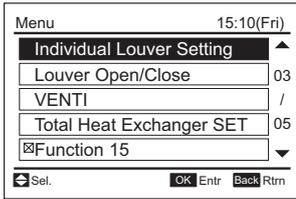


- (7) Ensure that “INDV” is turned on at the air flow section on the normal mode.

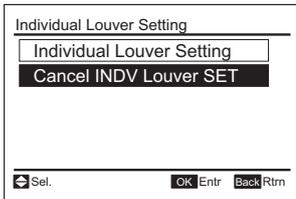


8.11.2 Cancellation of Louver Setting

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



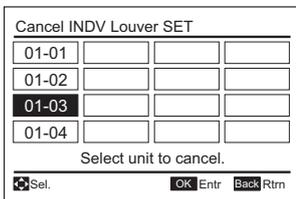
- (2) Select "Cancel INDV Louver SET" from the "Individual Louver Setting" screen and press "OK".



NOTE:

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

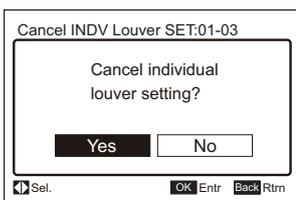
- (3) Select the indoor unit to cancel by pressing "Δ", "∇", "◀" or "▶". Press "OK".



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.



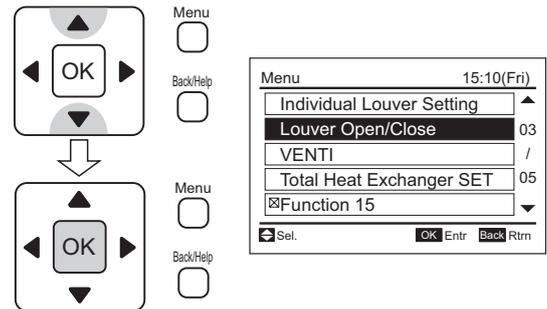
NOTE:

All the individual louver settings will be canceled.

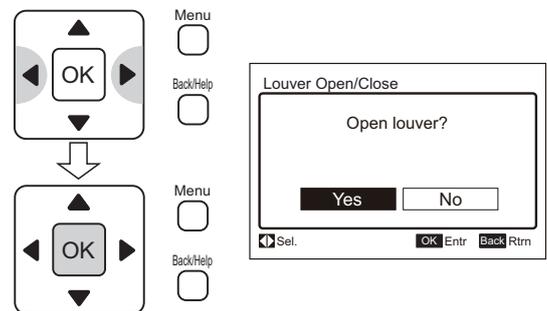
8.12 Louver Open/Close

- This function is used to fully open louver for adjusting the vertical deflector for air flow direction (manually).
- This function cannot be set when the unit is operated.
- This function is invalid depending on the indoor unit type. Refer to Installation & Maintenance Manual for detailed information.

- (1) Select "Louver Open/Close" from the "Menu" and press "OK".



- (2) Select "Yes" by pressing "◀" or "▶" and press "OK". The louver will be open (closed) and the screen will return to the normal mode.



NOTE:

Refer to Installation & Maintenance Manual for Indoor Units regarding the adjustment of air flow direction.

8.13 Ventilation

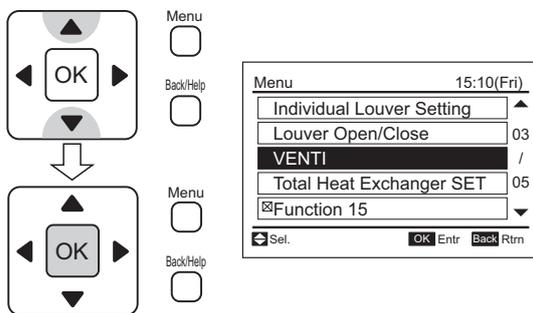
<Function>

- * A/C (Air Conditioning):
To operate the air conditioner individually.
- * VENTI (Ventilation):
To operate the total heat exchanger individually.
- * A/C+VENTI:
To operate the air conditioner and the total heat exchanger together.

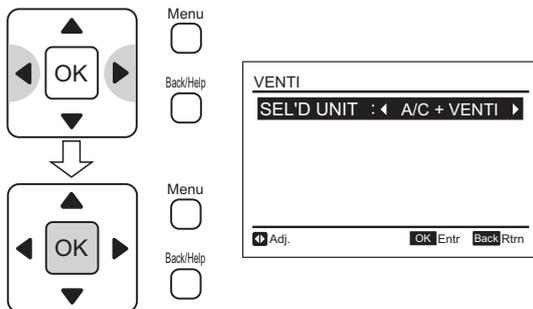
NOTE:

This function is available only when the total heat exchanger is connected.

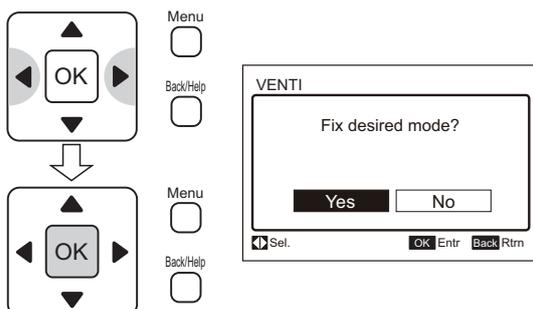
- (1) Select "VENTI" from the "Menu" and press "OK".



- (2) By repeatedly pressing "<" or ">", the indication is changed in order of "A/C", "VENTI" and "A/C + VENTI". Select the operation target and press "OK". The confirmation screen will be displayed.



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



The selected unit will be displayed as follows :
"A/C" and "AUTO VENTI".

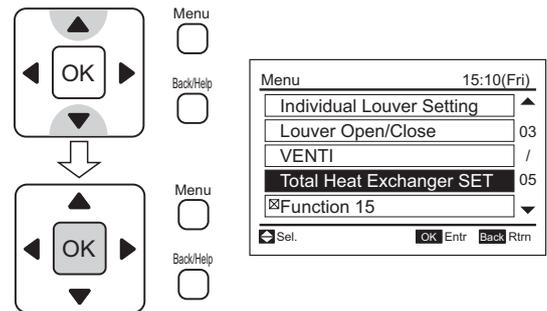
8.14 Setting of Total Heat Exchanger

This function is used to change the ventilation mode of the total heat exchanger.

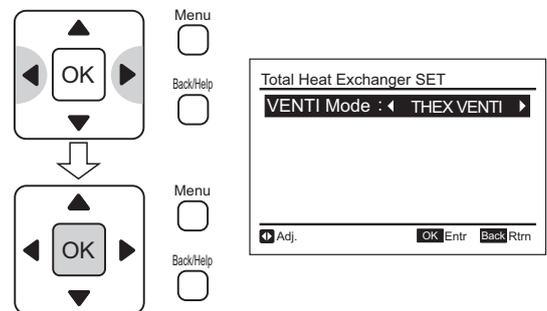
NOTE:

This function is available only when the total heat exchanger is connected. This function cannot be set when the unit is operated.

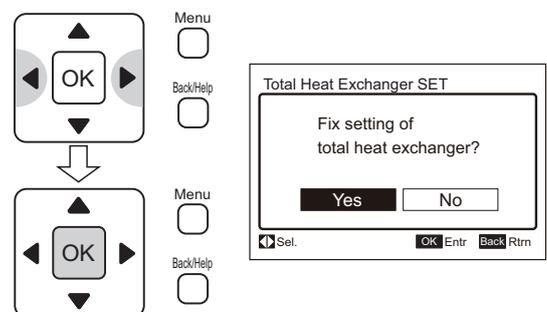
- (1) Select "Total Heat Exchanger SET" from the "Menu" and press "OK". The total heat exchanger set will be displayed.



- (2) By repeatedly pressing "<" or ">", the indication is changed in order of AUTO VENTI ↔ THEX VENTI ↔ Normal VENTI. Select the operation target and press "OK". The confirmation screen will be displayed.



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



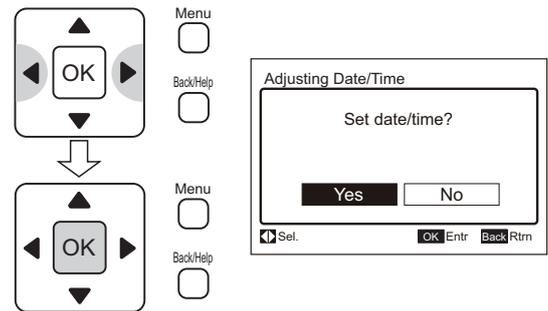
8.15 Adjusting Date/Time

- 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.

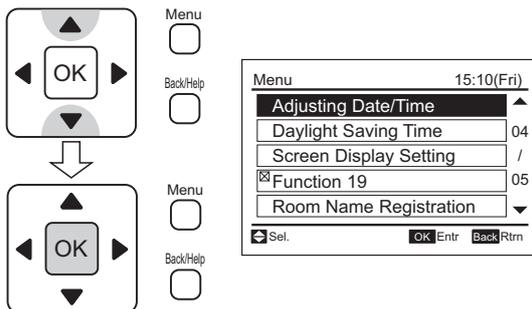
NOTE:

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").

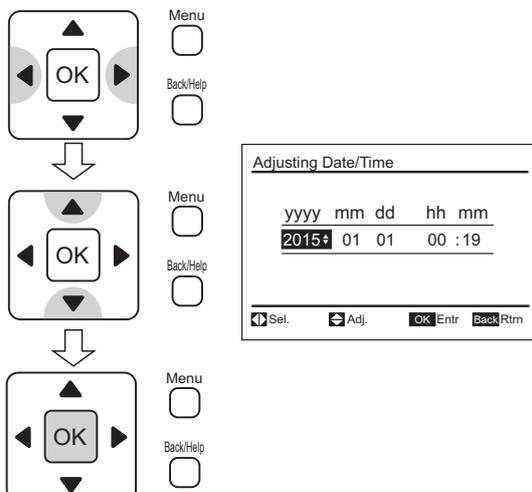
- (5) The confirmation screen is displayed. Select "Yes" by pressing " \triangleleft " or " \triangleright " and press "OK". The setting will be confirmed and the screen will return to the normal mode.



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



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

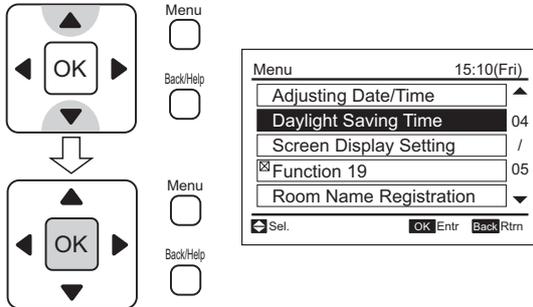


- (3) Press " \triangle " or " ∇ " to change the setting. Press or keep pressing " \triangle " or " ∇ " to adjust numbers.
- (4) After the setting is completed, press "OK".

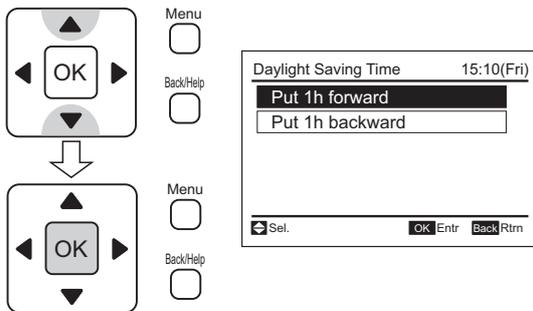
8.16 Daylight Saving Time

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

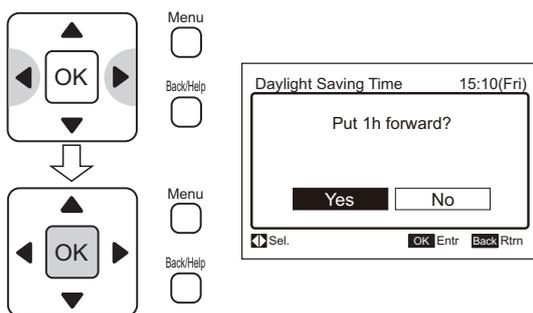
- (1) Select "Daylight Saving Time" from the "Menu" and press "OK".



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

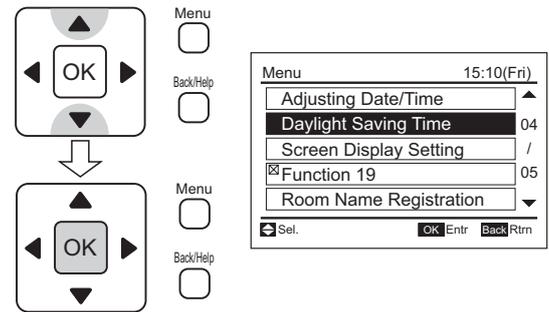


- (3) The daylight saving time confirmation screen will display. Select "Yes" using "◀" or "▶" and press "OK" to confirm the setting. The screen will return to normal mode.

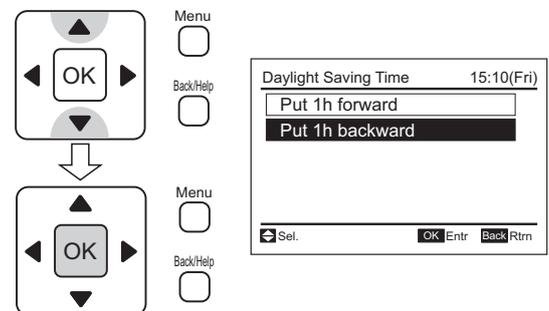


■ Stop Daylight Saving Time

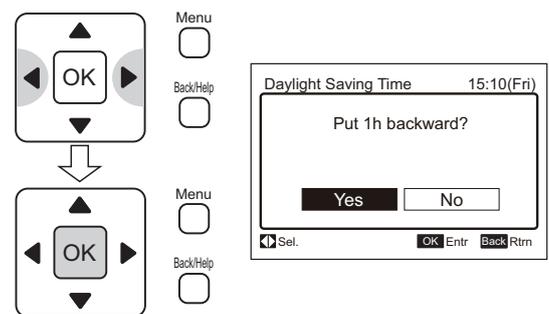
- (1) Select "Daylight Saving Time" from the "Menu" and press "OK".



- (2) The "Daylight Saving Time" screen will display. Select "Put 1h backward" using "△" 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.



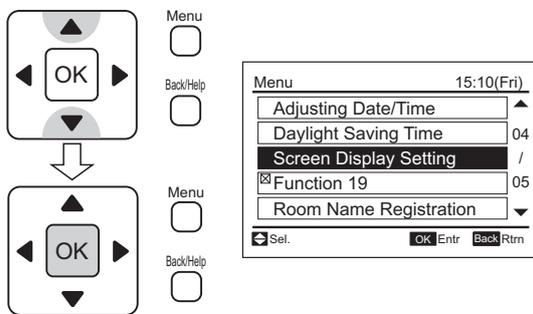
8.17 Screen Display Setting

8.17.1 Display Adjustment

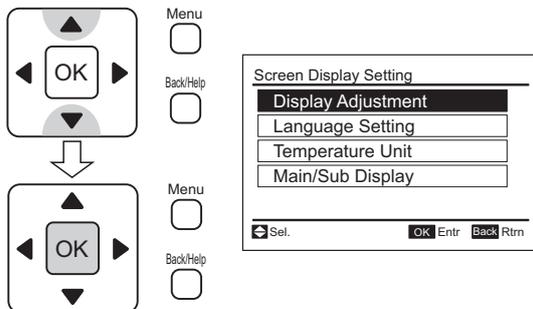
<Function>

- * 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.

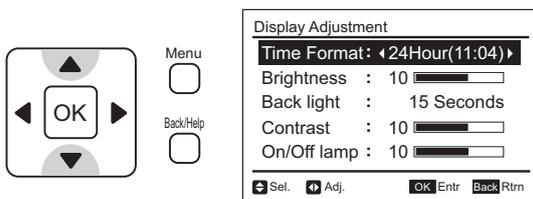
- (1) Select "Screen Display Setting" from the "Menu" and press "OK".



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

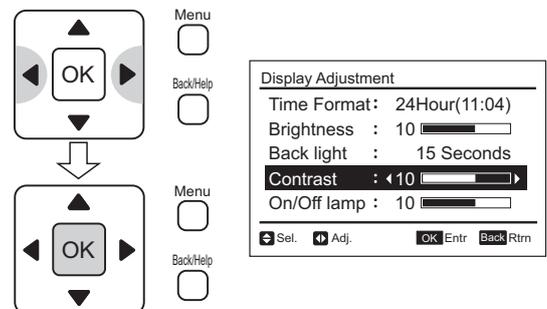


- (3) Select the setting details by pressing "Δ" or "∇".
The features change in order of "Time Format", "Brightness", "Back light", "Contrast" and "On/Off lamp".

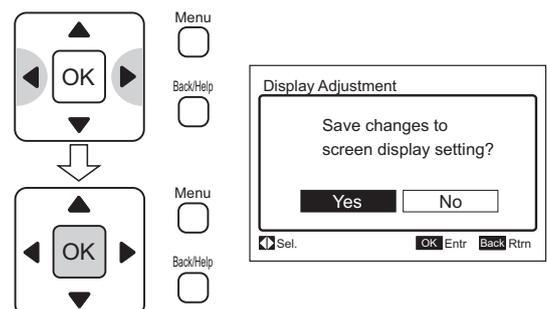


- (4) Press "<" or ">" and set the display.

- * 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.



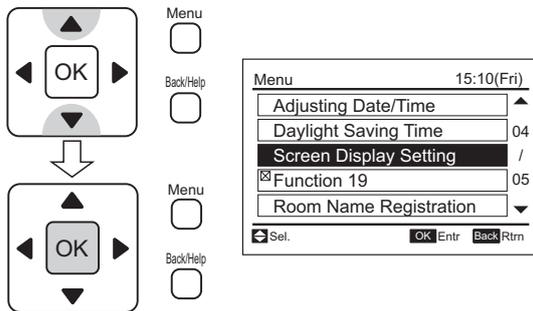
- (5) Select "Yes" by pressing "<" or ">" and press "OK". The setting will be confirmed and the screen will return to the normal mode.



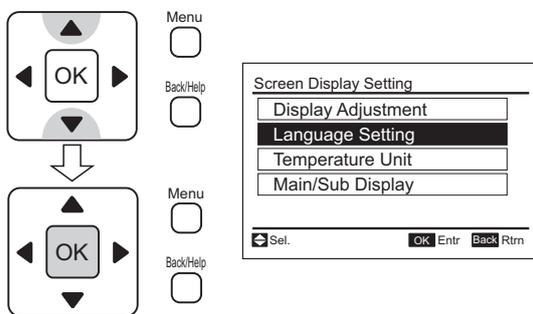
8.17.2 Language Setting

This function changes the displayed language.

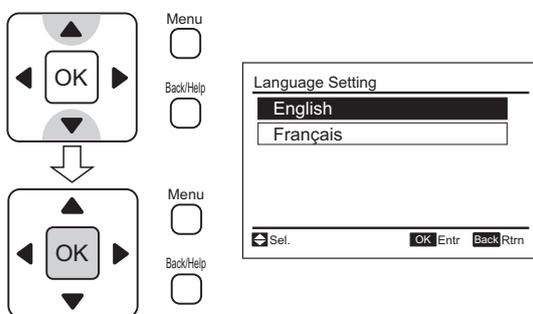
- (1) Select "Screen Display Setting" from the "Menu" and press "OK".



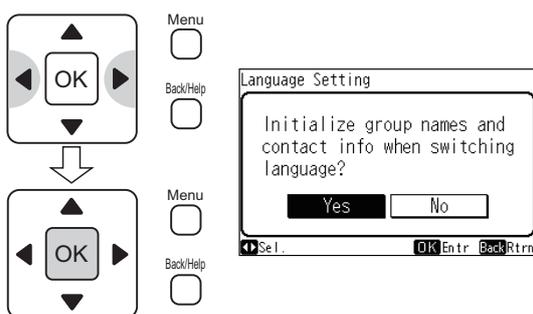
- (2) Select "Language Setting" by pressing "Δ" or "∇" and press "OK".
The language setting will be displayed.



- (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.

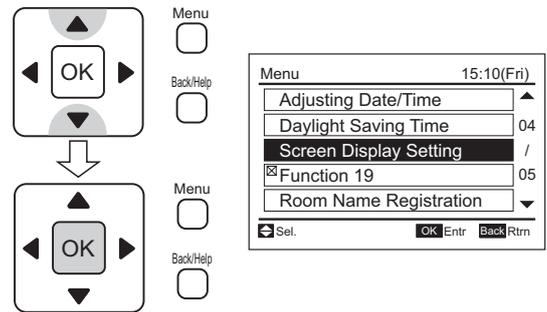


NOTE:

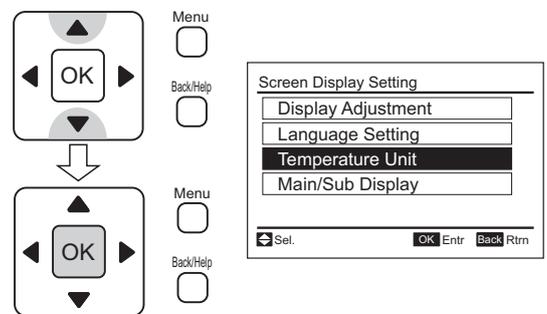
If displayed language is changed, the registered room name and contact information will be deleted.

8.17.3 Temperature Unit

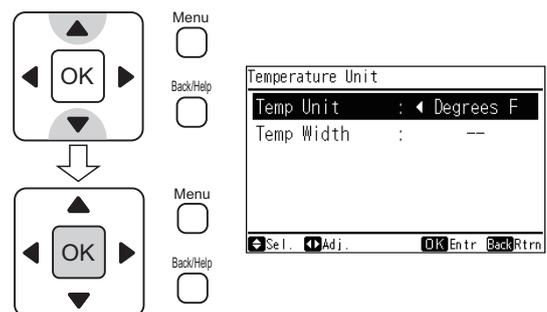
- (1) Select "Screen Display Setting" from the "Menu" and press "OK".



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



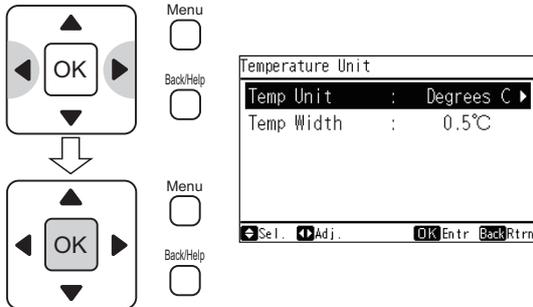
- (3) The temperature setting options display. Press "Δ" or "∇" and select the setting item.
The temperature setting will change as follows.
"Temperature Unit" ↔ "Temperature Width"



(4) Press “◀” or “▶” and select setting data.

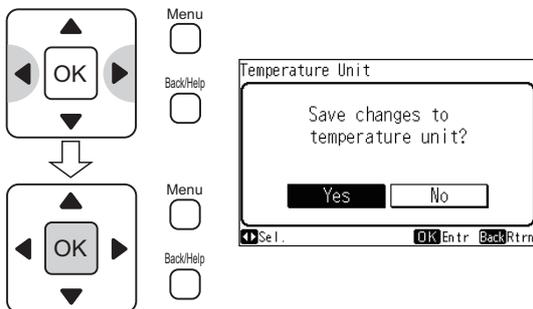
- If “Temperature Unit” is selected it will change as follows :
“Degrees C” ↔ “Degrees F”.
- If “Temperature Width” is selected it will change as follows :
“0.5°C” ↔ “1°C”

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 “◀” or “▶” and press “OK” to confirm the setting. The screen will return to the normal mode.



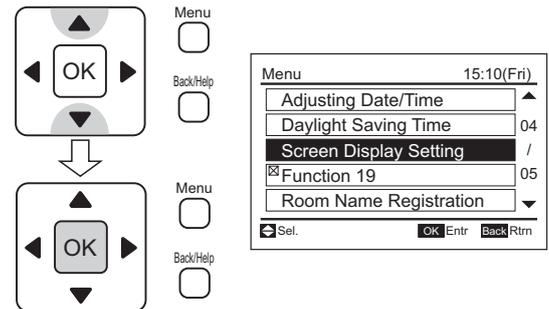
8.17.4 Main/Sub Remote Controller

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

NOTE:

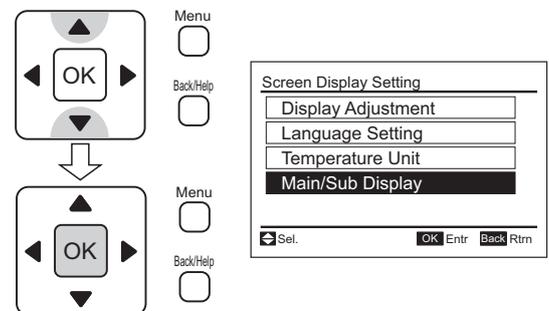
If the unit is set as “Non-display”, it is possible to verify if the controller is Main/Sub in the “Main/Sub-Remote” of the “Help Menu” “Current Setting”.

(1) Select “Screen Display Setting” from the “Menu” and press “OK”.



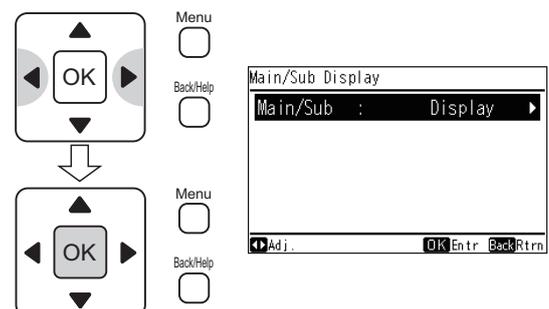
(2) The “Screen Display Setting” screen will display. Select “Main/Sub Display” using “Δ” or “▽” and press “OK”.

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 “◀” or “▶” the setting will be changed as follows :
“Display” ↔ “Non-display”

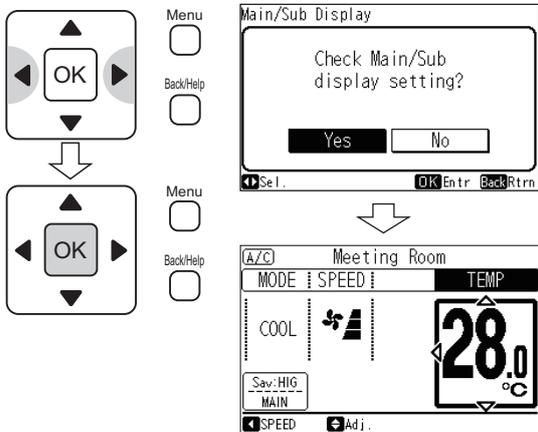
Select the setting and press “OK”.



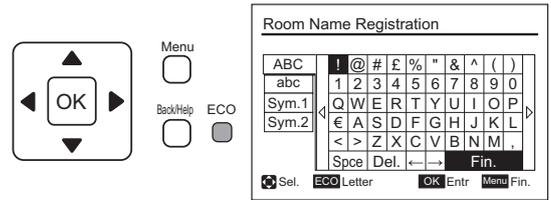
- (4) The setting confirmation screen will display. Select "Yes" with "◀" or "▶" and press "OK" to confirm the setting. The screen will return to normal mode.

Main/Sub	Display	Non-display
SAV OFF	MAIN SUB	Hide
ON	Sav:HIG MAIN SUB	Sav:HIG

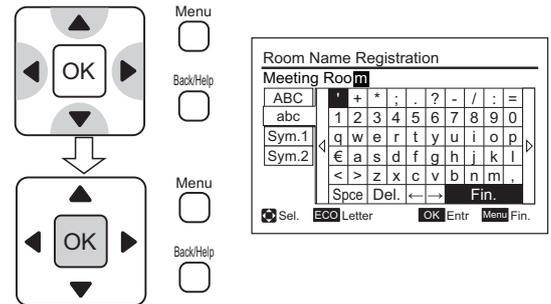
The icon will be displayed as above when set as "Display".



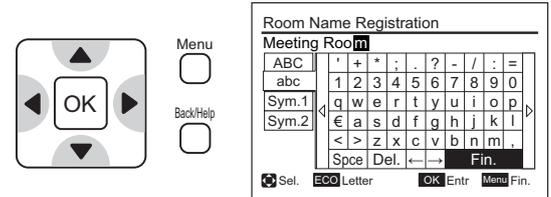
- (2) By pressing "Back/Help", letter and symbol types can be changed.



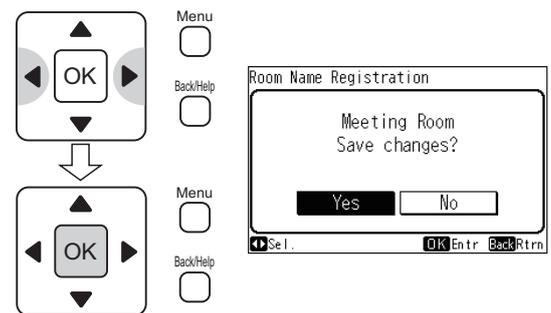
- (3) Press "▲", "▼", "◀" or "▶" and select the letter or symbol. Press "OK" to confirm the selected letter or symbol (maximum of 12 characters).



- (4) Select "Fin." by pressing "▲", "▼", "◀" or "▶" and press "OK", or press "Menu".



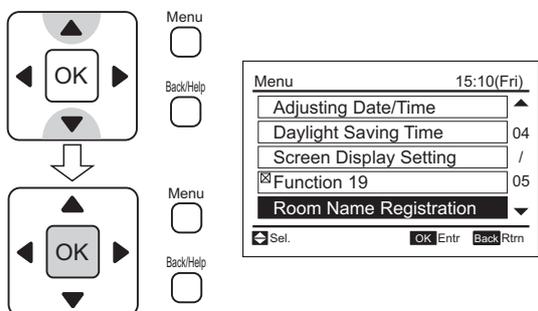
- (5) The confirmation screen displays. Select "Yes" by pressing "◀" or "▶" and press "OK". The setting will be confirmed and the screen will return to the normal mode.



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" 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.

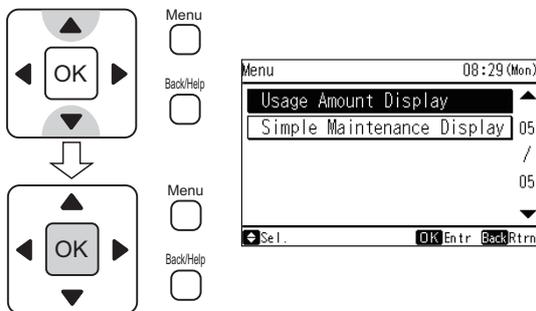
The value of each displayed in Graph/List format is 1 day (24h (- every 2 hrs.)), 1 week (7 days), and 1 year (12 months).

- Depending on the type and setting of the indoor unit and outdoor unit it may be impossible to set this function.

NOTE:

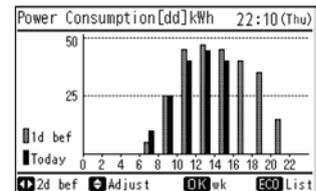
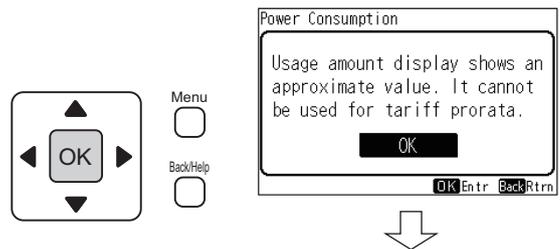
- The numerical value is a reference. Do not use this unit for the following:
Calculation of power rates or examination of the power contract.
- The "Main/Sub-Remote" display in the "Current Setting" of the "Help Menu" cannot be set if "Sub" or "--".
- In the following instances, the calculated value 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

- Select "Usage Amount Display" from the "Menu" and press "OK".



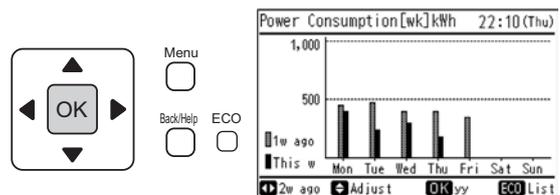
The Usage Amount Display setting screen will be displayed. When the current time is not set, the time adjusting screen will be automatically displayed.

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



- Display Period

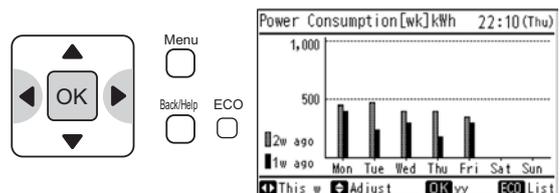
Press "OK" to change the Display Period as follows:
1 day (24h) / 1 Week (7 days) / 1 year (12 months)



Comparison

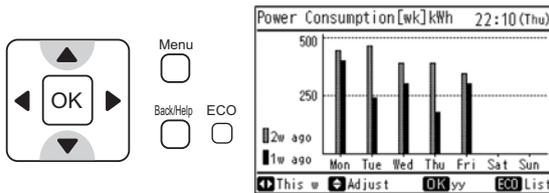
Press "◀" or "▶" to change the periods of comparison as follows:

- "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"



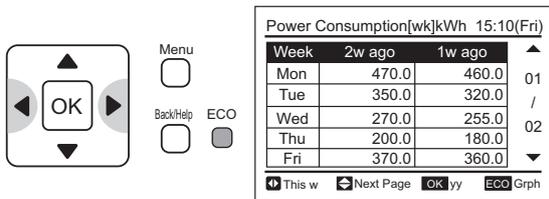
Display Scale

Change the scale using “△” or “▽”.

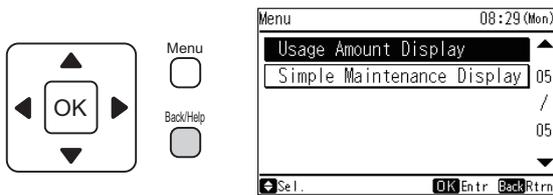


Graph ↔ List Display

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



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

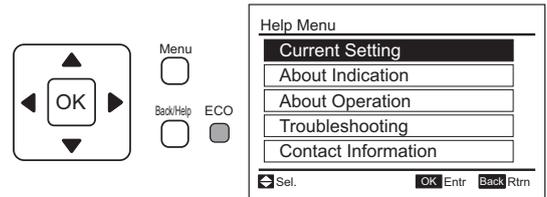


9. Help Menu

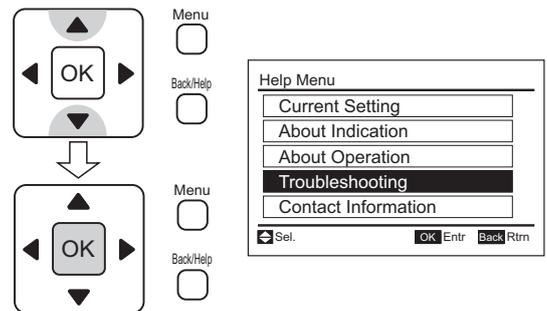
9.1 Help Menu

- 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.

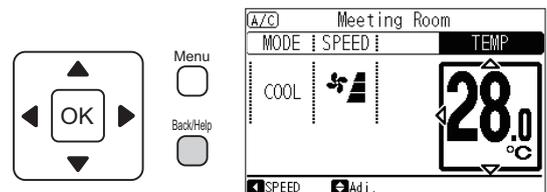
- (1) Press “Back/Help”.
The “Help Menu” will be displayed.



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



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



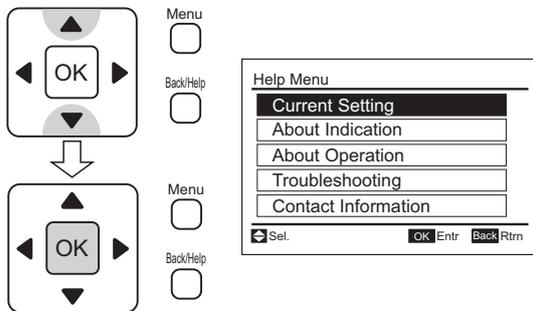
NOTE:

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

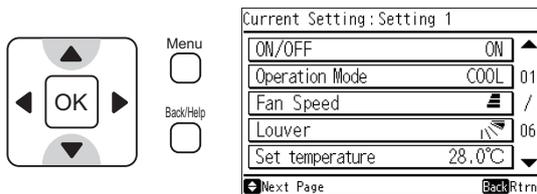
9.2 Current Setting Display

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

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

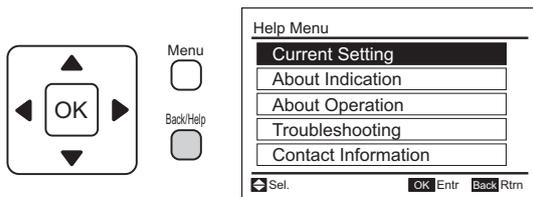


- (2) The "Current Setting" screen displays. Press "Δ" or "∇" to change to the indication "page".



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

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



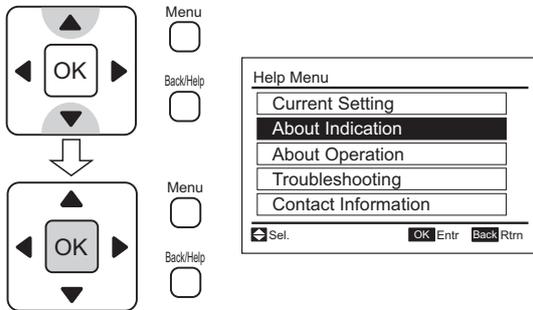
List of indications for the "Current Setting"

Each Type Setting 1	ON/OFF
	Operation Mode
	Fan Speed
	Louver
Each Type Setting 2	Setting Temperature
	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
Schedule	Operation Noise Reduction
	Quick Mode
	Simple Schedule
	Operation Schedule
Lock Operation	Outdoor Unit Capacity Control Schedule
	Intermittent Operation Control Schedule
	Noise Reduction Schedule
	Operation Mode
Central Control	Fan Speed
	Louver
	Setting Temperature
	ON/OFF
	Operation Mode

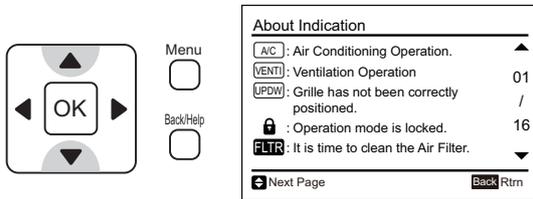
9.3 Indicators on LCD

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

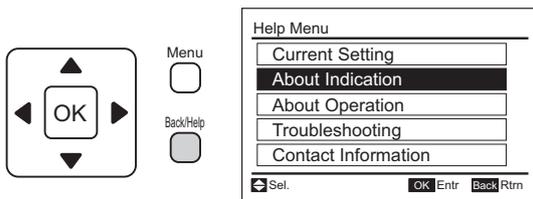
- (1) Select "About Indication" from the "Help Menu" and press "OK". Explanations of indicators on the LCD will be displayed.



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



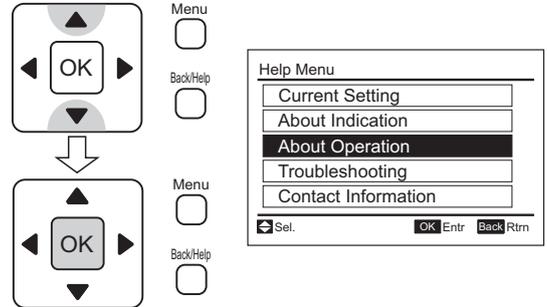
- (3) Press "Back/Help". The screen will return to the "Help Menu".
 - To return to the normal mode, press "Back/Help" again.



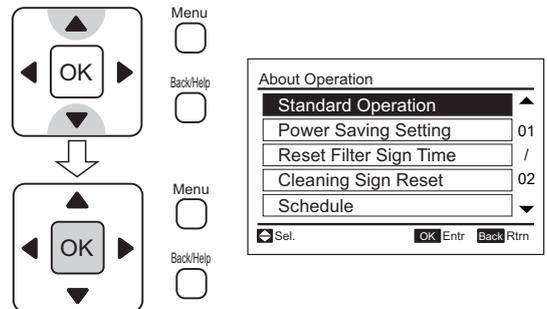
9.4 About Operation

This function is used to explain operations and operation methods.

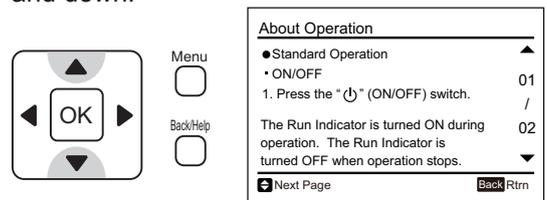
- (1) Select "About Operation" from the "Help Menu" and press "OK". A list of operation functions will be displayed.



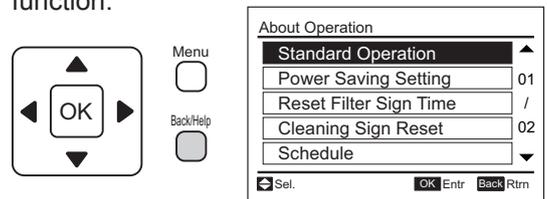
- (2) Select the operation functions from the list by pressing "Δ" or "∇" and press "OK". The explanation of the selected operation will be displayed.



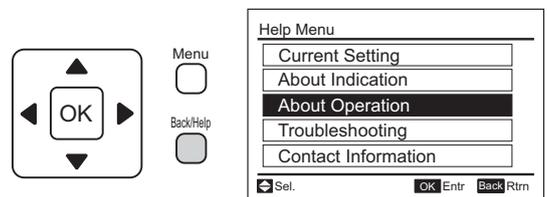
- (3) Press "Δ" or "∇" to scroll the information up and down.



- (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.

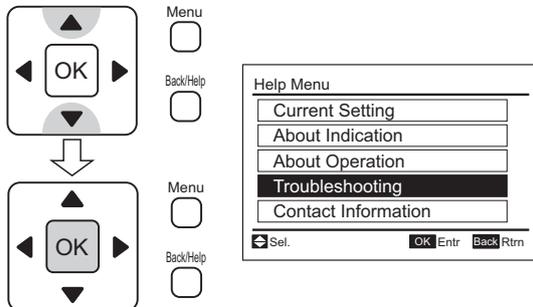


9.5 Troubleshooting

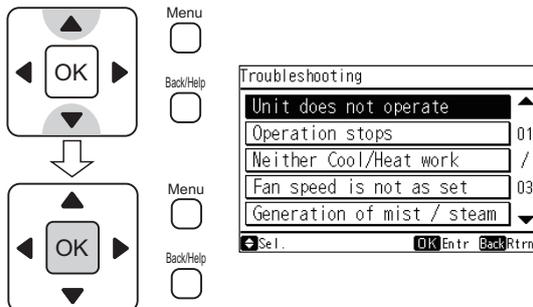
This function is used to troubleshoot operating problems.

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

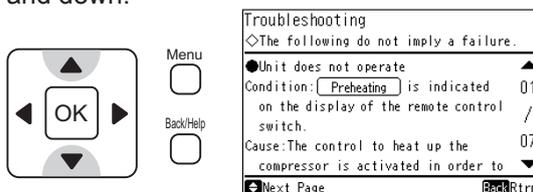
- (1) Select "Troubleshooting" from the "Help Menu" and press "OK".



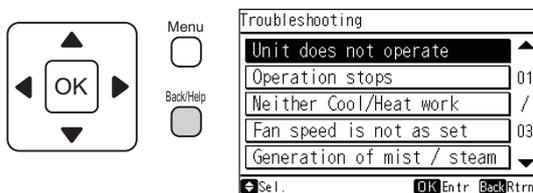
- (2) A list of troubleshooting issues is displayed. Select a problem from the list by pressing "Δ" or "∇" and press "OK". The details of the selected problem will be displayed.



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

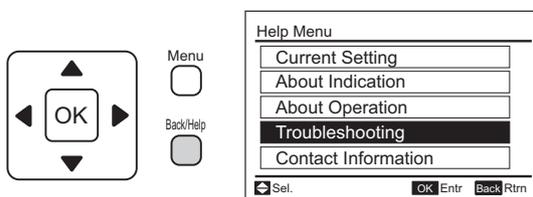


- (4) Press "Back/Help". The screen will return to the list of "Troubleshooting".



- (5) Press "Back/Help". The screen will return to the "Help Menu".

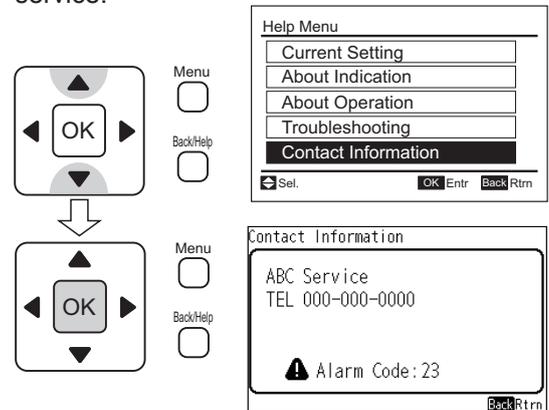
- To return to Normal Mode, press "Back/Help" again.



9.6 Contact Information

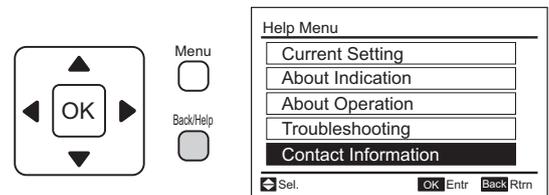
The screen will display "Contact Information" and the latest alarm code.

- (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.

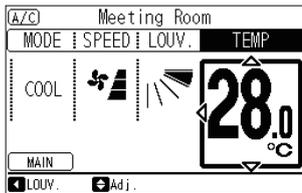


10. Other Indications

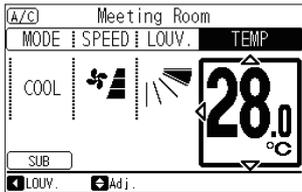
10.1 In Normal Condition

10.1.1 Main / Sub Controller

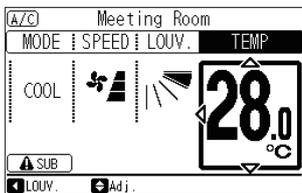
- The icon “MAIN” will be displayed as ON when the controller is set as MAIN.
Use the main controller to set principal power saving.
When there is a single controller, the icon “MAIN” will not display as ON.



- 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.

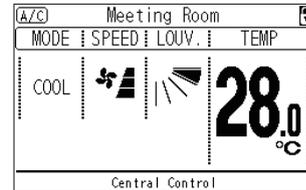


- The icon “▲ SUB” will display as ON when the main controller is absent.
In this instance, it is possible that the control with the power saving and the operation noise reduction functions may not operate normally.

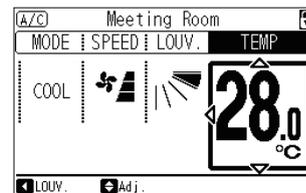


10.1.2 Central Control

- 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.

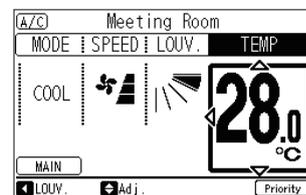


10.1.3 Priorities

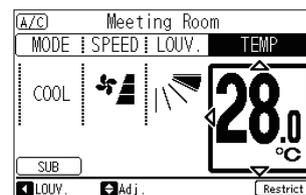
When only the Operation Mode or Operation Mode and Temperature Setting have setting priorities (only when using the main controller).

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



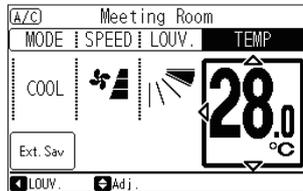
Sub Controller



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.



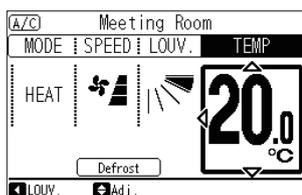
10.1.5 Thermo-Controller

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)

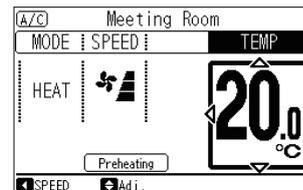
- When in Defrosting Operation
The icon “Defrost” will display as ON and the indoor fan will turn OFF.
The unit will be situated so the air will blow horizontally.
- When Turning OFF Operation During Defrosting.
The operation light will turn OFF but the operation will continue and the defrosting will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



10.1.7 Operation Control

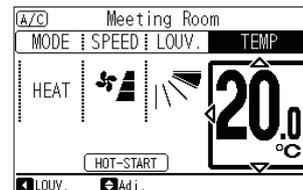
Power Activation

- 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.



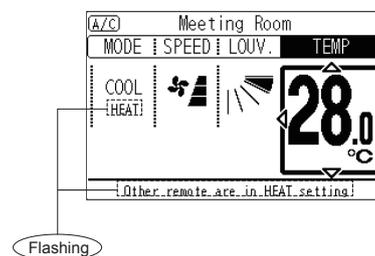
Activating in Hot Start (only for Heating Mode)

- 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 flashing.



10.2 In Abnormal Condition

10.2.1 Abnormality

- The RUN indicator (red) flashing.
- 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.

