



English

CITY MULTI Control System  
and Mitsubishi Mr. Slim Air Conditioners

## **MA Remote Controller PAR-30MAA**

### **Instruction Book**



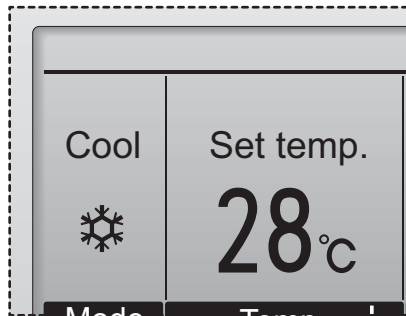
Prior to use, thoroughly read the instructions in this manual to use the product correctly.  
Retain for future reference.

Make sure that this CD-ROM and the Installation Manual are passed on to any future users.  
To ensure safety and proper operation of the remote controller, the remote controller should  
only be installed by qualified personnel.

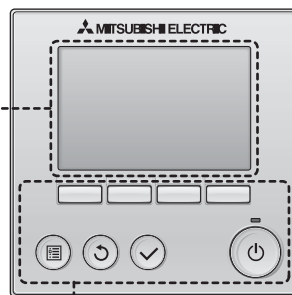
## Product features

### Feature 1

#### Large, easy-to-see display



Full-dot LCD display with large characters for easy viewing



### Feature 2

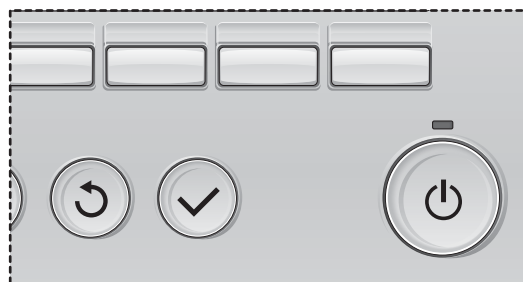
#### Simple button arrangement

### Feature 3

#### Large, easy-to-press buttons

Buttons are arranged according to usage to allow for intuitive navigation.

Frequently used buttons are larger than other buttons to prevent unintended pressing of other buttons.





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# Safety precautions

- Thoroughly read the following safety precautions before using the unit.
- Observe these precautions carefully to ensure safety.

 <b>WARNING</b>	Indicates a risk of death or serious injury.
 <b>CAUTION</b>	Indicates a risk of serious injury or structural damage.

- After reading this manual, pass it on to the end user to retain for future reference.
- Keep this manual for future reference and refer to it as necessary. This manual should be made available to those who repair or relocate the controller. Make sure that the manual is passed on to any future users.

## General precautions

### **WARNING**

Do not install the unit in a place where large amounts of oil, steam, organic solvents, or corrosive gases, such as sulfuric gas, are present or where acidic/alkaline solutions or sprays are used frequently. These substances can compromise the performance of the unit or cause certain components of the unit to corrode, which can result in electric shock, malfunctions, smoke, or fire.

To reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not wash the controller with water or any other liquid.

To reduce the risk of electric shock, malfunctions, smoke or fire, do not operate the switches/buttons or touch other electrical parts with wet hands.

When disinfecting the unit using alcohol, ventilate the room adequately. The fumes of the alcohol around the unit may cause a fire or explosion when the unit is turned on.

To reduce the risk of injury or electric shock, before spraying a chemical around the controller, stop the operation and cover the controller.

To reduce the risk of injury or electric shock, stop the operation and switch off the power supply before cleaning, maintaining, or inspecting the controller.

If any abnormality (e.g., burning smell) is noticed, stop the operation, turn off the power switch, and consult your dealer. Continued use of the product may result in electric shock, malfunctions, or fire.

Properly install all required covers to keep moisture and dust out of the controller. Dust accumulation and water can cause electric shock, smoke, or fire.

### **CAUTION**

To reduce the risk of fire or explosion, do not place flammable materials or use flammable sprays around the controller.

To reduce the risk of damage to the controller, do not directly spray insecticide or other flammable sprays on the controller.

To reduce the risk of environmental pollution, consult an authorized agency for proper disposal of remote controller.

To reduce the risk of electric shock or malfunctions, do not touch the touch panel, switches, or buttons with a pointy or sharp object.



To reduce the risk of injury and electric shock, avoid contact with sharp edges of certain parts.

To reduce the risk of injury, wear protective gear when working on the controller.

To avoid injury from broken glass, do not apply excessive force on the glass parts.

## Precautions for moving or repairing the controller

### **WARNING**

The controller should be repaired or moved only by qualified personnel. Do not disassemble or modify the controller. Improper installation or repair may cause injury, electric shock, or fire.

### **CAUTION**

To reduce the risk of shorting, electric shock, fire, or malfunction, do not touch the circuit board with tools or with your hands, and do not allow dust to accumulate on the circuit board.

## Additional precautions

To avoid damage to the controller, use appropriate tools to install, inspect, or repair the controller.

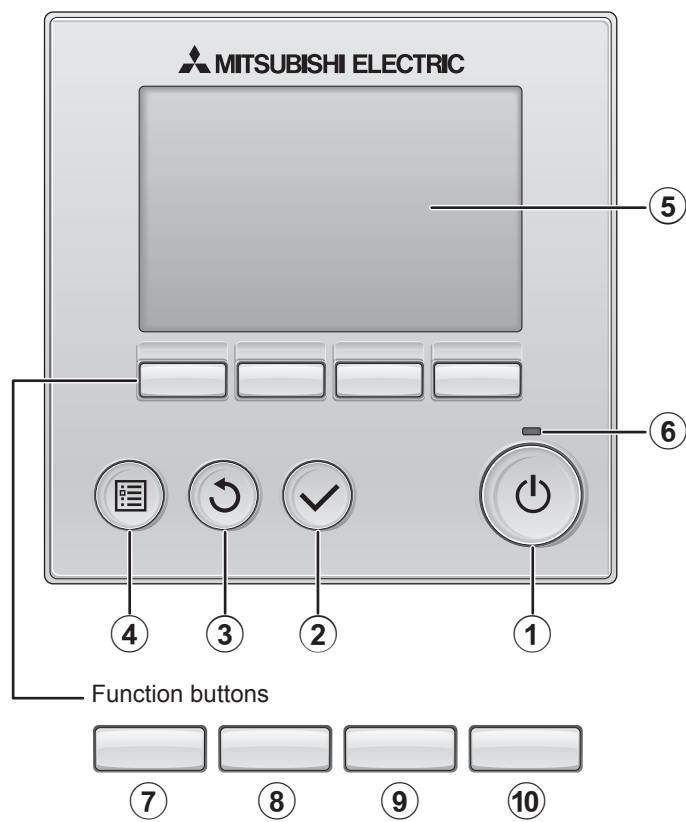
This controller is designed for exclusive use with the Building Management System by Mitsubishi Electric. The use of this controller for with other systems or for other purposes may cause malfunctions.

To avoid discoloration, do not use benzene, thinner, or chemical rag to clean the controller. To clean the controller, wipe with a soft cloth soaked in water with mild detergent, wipe off the detergent with a wet cloth, and wipe off water with a dry cloth.

To avoid damage to the controller, provide protection against static electricity.

# Names and functions of controller components

## Controller interface



### ① **ON/OFF** button

Press to turn ON/OFF the indoor unit.

### ② **SELECT** button

Press to save the setting.

### ③ **RETURN** button

Press to return to the previous screen.

### ④ **MENU** button

Press to bring up the Main menu.

Page 18

### ⑤ **Backlit LCD**

Operation settings will appear.  
When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.

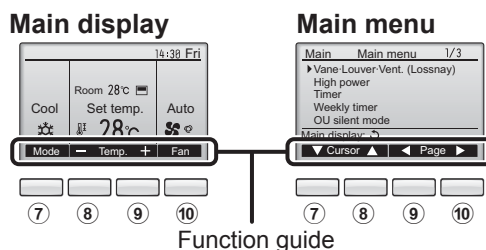
When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the **ON/OFF** button)

### ⑥ **ON/OFF lamp**

This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error.

The functions of the function buttons change depending on the screen. Refer to the button function guide that appears at the bottom of the LCD for the functions they serve on a given screen.

When the system is centrally controlled, the button function guide that corresponds to the locked button will not appear.



### ⑦ **Function button F1**

Main display: Press to change the operation mode.

Main menu: Press to move the cursor down.

### ⑧ **Function button F2**

Main display: Press to decrease temperature.

Main menu: Press to move the cursor up.

### ⑨ **Function button F3**

Main display: Press to increase temperature.

Main menu: Press to go to the previous page.

### ⑩ **Function button F4**

Main display: Press to change the fan speed.

Main menu: Press to go to the next page.

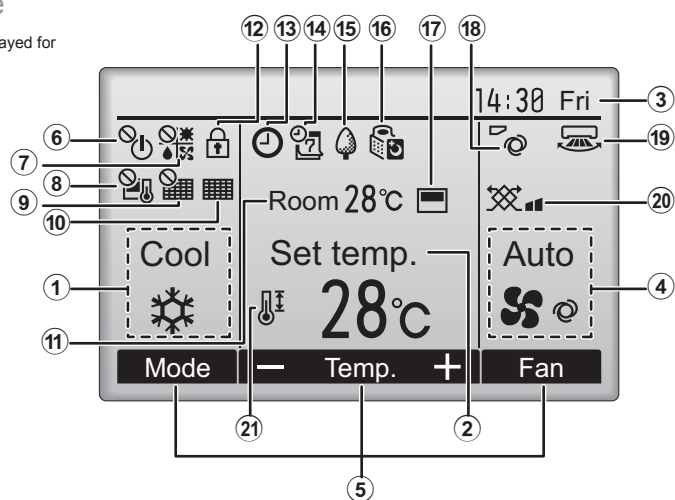
# Names and functions of controller components

## Display

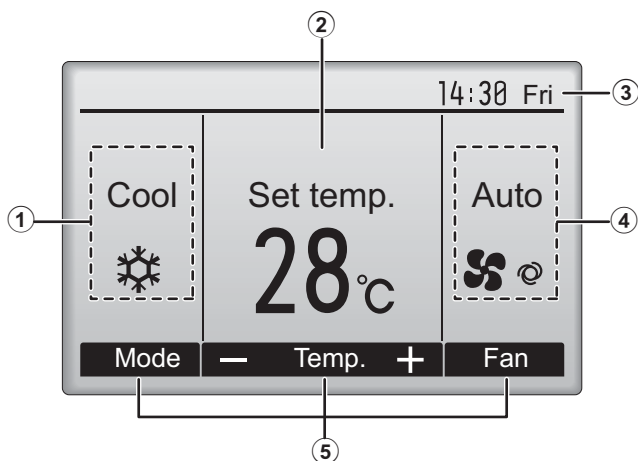
The main display can be displayed in two different modes: "Full" and "Basic."  
The factory setting is "Full." To switch to the "Basic" mode, change the setting on the Main display setting. (Refer to page 44.)

### Full mode

\* All icons are displayed for explanation.



### Basic mode





**① Operation mode** **Page 14**

Indoor unit operation mode appears here.

**② Preset temperature** **Page 14**

Preset temperature appears here.

**③ Clock**  
**(See the Installation Manual.)**

Current time appears here.

**④ Fan speed** **Page 15**

Fan speed setting appears here.

**⑤ Button function guide**

Functions of the corresponding buttons appear here.



Appears when the ON/OFF operation is centrally controlled.



Appears when the operation mode is centrally controlled.



Appears when the preset temperature is centrally controlled.



Appears when the filter reset function is centrally controlled.



**Page 48**

Indicates when filter needs maintenance.

**⑪ Room temperature**  
**(See the Installation Manual.)**

Current room temperature appears here.



**Page 34**

Appears when the buttons are locked.



**Page 40**

Appears when the On/Off timer or Night setback function is enabled.



**Page 28**

Appears when the Weekly timer is enabled.



**Page 36**

Appears while the units are operated in the energy-save mode.



**Page 30**

Appears while the outdoor units are operated in the silent mode.



Appears when the built-in thermistor on the remote controller is activated to monitor the room temperature (⑪).



appears when the thermistor on the indoor unit is activated to monitor the room temperature.



**Page 20**

Indicates the vane setting.



**Page 21**

Indicates the louver setting.



**Page 21**

Indicates the ventilation setting.



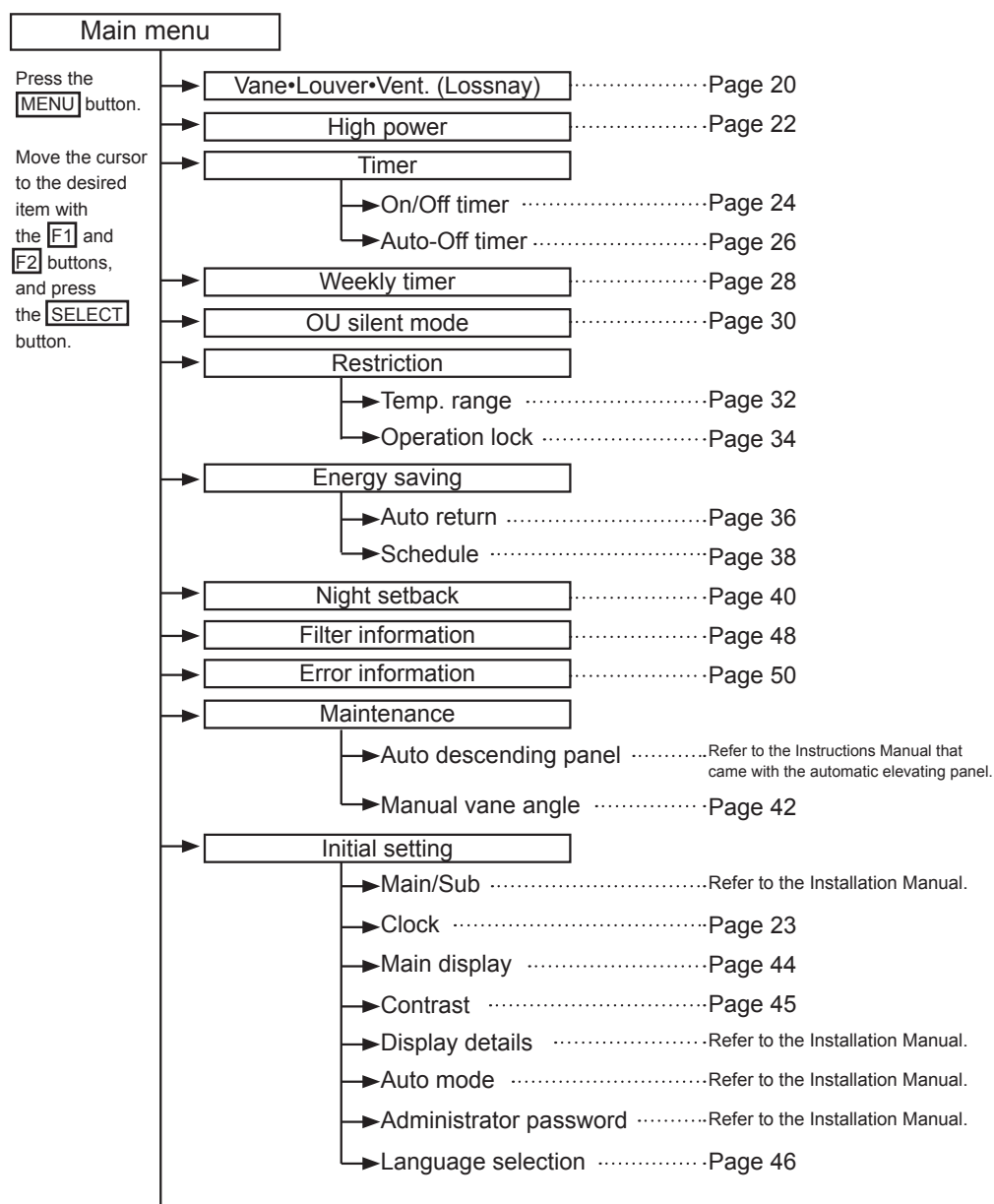
**Page 32**

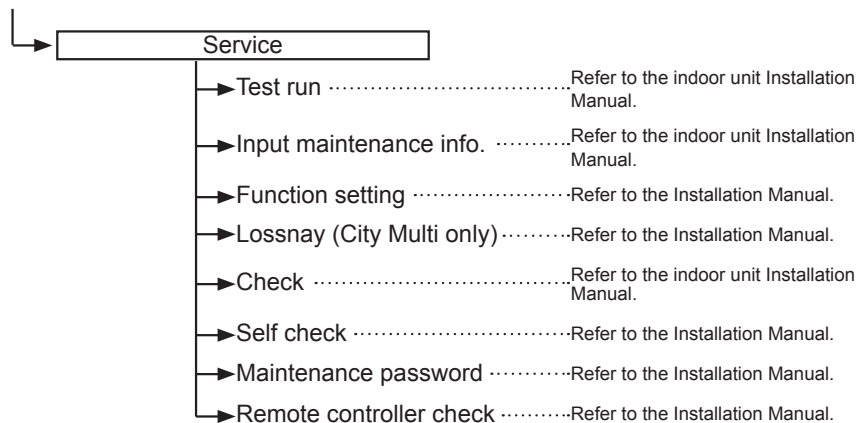
Appears when the preset temperature range is restricted.

Most settings (except ON/OFF, mode, fan speed, temperature) can be made from the Menu screen. (Refer to page 18.)

# Read before operating the controller

## Menu structure





Not all functions are available on all models of indoor units.

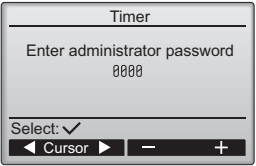
## Icon explanations

### Controller operation

Timer



The table below summarizes the square icons used in this manual.

	<p>The administrator password must be entered on the password input screen to change settings. There is no settings that can skip this process.</p>  <p>F1 F2 F3 F4</p> <p>F1 : Press to move the cursor left.  F2 : Press to move the cursor right.  F3 : Press to decrease the value by 1.  F4 : Press to increase the value by 1.</p> <p>*Changes cannot be made unless the correct password is entered.</p>	<p>Indicates settings that can be made only from the main remote controller.</p>
	<p>Indicates settings that can be changed only while the units are in operation.</p>	<p>Indicates settings that can be changed only while the units are not in operation.</p>
	<p>Indicates settings that can be changed only while the units are operated in the Cool, Heat, or Auto mode.</p>	<p>Indicates functions that are not available when the buttons are locked or the system is centrally controlled.</p>

# Basic operations

## Power ON/OFF



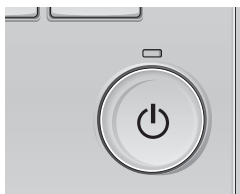
Button operation

### ON



Press the **ON/OFF** button.  
The ON/OFF lamp will light up in green, and the operation will start.

### OFF



Press the **ON/OFF** button again.  
The ON/OFF lamp will come off, and the operation will stop.



## Operation status memory

	Remote controller setting
Operation mode	Operation mode before the power was turned off
Preset temperature	Preset temperature before the power was turned off
Fan speed	Fan speed before the power was turned off

## Settable preset temperature range

Operation mode	Preset temperature range
Cool/Dry	19 ~ 30 °C (67 ~ 87 °F)
Heat	17 ~ 28 °C (63 ~ 83 °F)
Auto	19 ~ 28 °C (67 ~ 83 °F)
Fan/Ventilation	Not settable

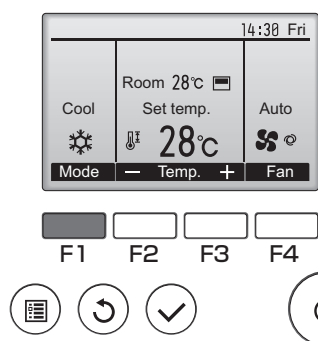
**The settable temperature range varies with the model of indoor units.**

## Operation mode, temperature, and fan speed settings

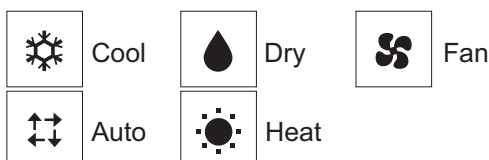


Button operation

### Operation mode



Press the **[F1]** button to go through the operation modes in the order of "Cool, Dry, Fan, Auto, and Heat." Select the desired operation mode.

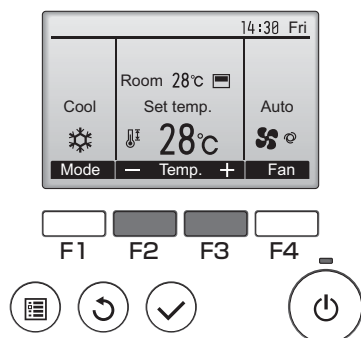


•Operation modes that are not available to the connected indoor unit models will not appear on the display.

#### What the blinking mode icon means

The mode icon will blink when other indoor units in the same refrigerant system (connected to the same outdoor unit) are already operated in a different mode. In this case, the rest of the unit in the same group can only be operated in the same mode.

### Preset temperature

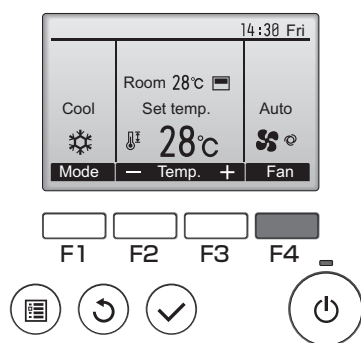


Press the **[F2]** button to decrease the preset temperature by 1°C (1°F), and press the **[F3]** button to increase.

- Refer to the table on page 13 for the settable temperature range for different operation modes.
- Preset temperature range cannot be set for Fan/Ventilation operation.



## Fan speed



Press the **F4** button to go through the fan speeds in the following order.



- The available fan speeds depend on the models of connected indoor units.
- Fan speed can be changed even when the buttons are locked or when the system is centrally controlled.

# Navigating through the menu

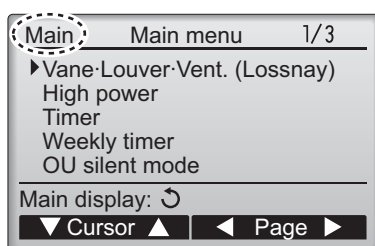
## Main menu list

Setting and display items		Setting details	Reference page
<b>Vane•Louver•Vent. (Lossnay)</b>		<b>Use to set the vane angle.</b> •Select a desired vane setting from five different settings. <b>Use to turn ON/OFF the louver.</b> •Select a desired setting from "ON" and "OFF." <b>Use to set the amount of ventilation.</b> •Select a desired setting from "Off," "Low," and "High."	20
<b>High power</b>		<b>Use to reach the comfortable room temperature quickly.</b> •Units can be operated in the High-power mode for up to 30 minutes.	22
<b>Timer</b>	<b>On/Off timer</b>	<b>Use to set the operation On/Off times.</b> •Time can be set in 5-minute increments. * Clock setting is required.	24
	<b>Auto-Off timer</b>	<b>Use to set the Auto-Off time.</b> •Time can be set to a value from 30 to 240 in 10-minute increments.	26
<b>Weekly timer</b>		<b>Use to set the weekly operation On/Off times.</b> •Up to eight operation patterns can be set for each day. * Clock setting is required. * Not valid when the On/Off timer is enabled.	28
<b>OU silent mode</b>		<b>Use to set the time periods in which priority is given to quiet operation of outdoor units over temperature control. Set the Start/Stop times for each day of the week.</b> •Select the desired silent level from "Normal," "Middle," and "Quiet." * Clock setting is required.	30
<b>Restriction</b>	<b>Temp. range</b>	<b>Use to restrict the preset temperature range.</b> •Different temperature ranges can be set for different operation modes.	32
	<b>Operation lock</b>	<b>Use to lock selected functions.</b> •The locked functions cannot be operated.	34
<b>Energy saving</b>	<b>Auto return</b>	<b>Use to get the units to operate at the preset temperature after performing energy-save operation for a specified time period.</b> •Time can be set to a value from 30 and 120 in 10-minute increments. * This function will not be valid when the preset temperature ranges are restricted.	36
	<b>Schedule</b>	<b>Set the start/stop times to operate the units in the energy-save mode for each day of the week, and set the energy-saving rate.</b> •Up to four energy-save operation patterns can be set for each day. •Time can be set in 5-minute increments. •Energy-saving rate can be set to a value from 0% and 50 to 90% in 10% increments. * Clock setting is required.	38



Setting and display items		Setting details	Reference page
<b>Night setback</b>		<b>Use to make Night setback settings.</b> •Select "Yes" to enable the setting, and "No" to disable the setting. The temperature range and the start/stop times can be set. * Clock setting is required.	40
<b>Filter information</b>		<b>Use to check the filter status.</b> •The filter sign can be reset.	48
<b>Error information</b>		<b>Use to check error information when an error occurs.</b> •Error code, error source, refrigerant address, unit model, manufacturing number, contact information (dealer's phone number) can be displayed. * The unit model, manufacturing number, and contact information need to be registered in advance to be displayed.	50
Maintenance	Manual vane angle	<b>Use to set the vane angle for each vane to a fixed position.</b>	42
Initial setting	Clock	<b>Use to set the current time.</b>	23
	Main display	<b>Use to switch between "Full" and "Basic" modes for the Main display.</b> •The default setting is "Full."	44
	Contrast	<b>Use to adjust screen contrast.</b>	45
	Language selection	<b>Use to select the desired language.</b>	46

## Restrictions for the sub remote controller



The following settings cannot be made from the sub remote controller. Make these settings from the main remote controller. "Main" is displayed in the title of the Main menu on the main remote controller.

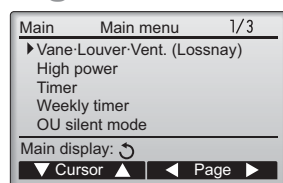
- Timer  
(On/Off timer, Auto-Off timer)
- Weekly timer
- OU silent mode
- Energy saving  
(Auto return, Schedule)
- Night setback
- Maintenance  
(Manual vane angle)

# Navigating through the menu

## Navigating through the Main menu

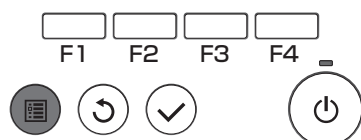
Button operation

### Accessing the Main menu

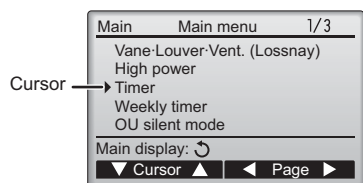


Press the **MENU** button.

The Main menu will appear.

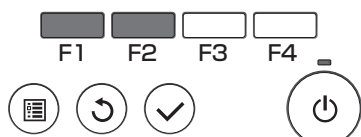


### Item selection

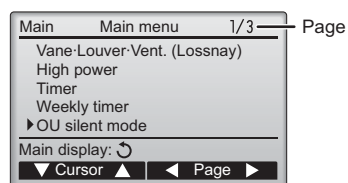


Press **F1** to move the cursor down.

Press **F2** to move the cursor up.

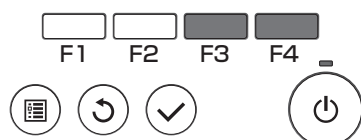


### Navigating through the pages

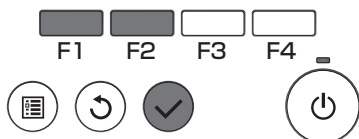


Press **F3** to go to the previous page.

Press **F4** to go to the next page.



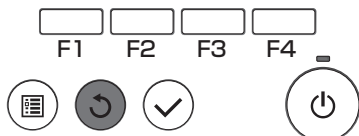
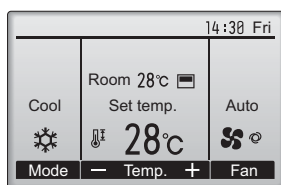
## Saving the settings



Select the desired item, and press the **SELECT** button.

The screen to set the selected item will appear.

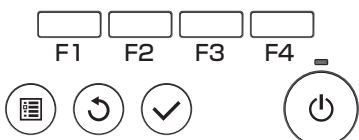
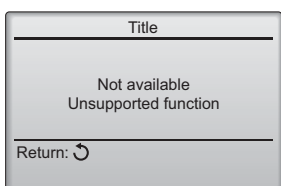
## Exiting the Main menu screen



Press the **RETURN** button to exit the Main menu and return to the Main display.

If no buttons are touched for 10 minutes, the screen will automatically return to the Main display. Any settings that have not been saved will be lost.

## Display of unsupported functions



The message at left will appear if the user selects a function not supported by the corresponding indoor unit model.

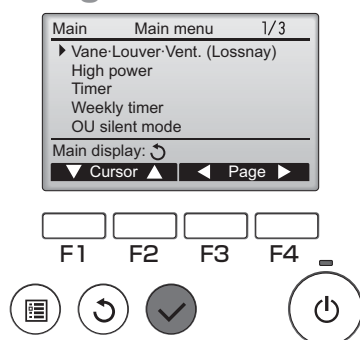
# Controller operation-Function settings

Vane•Louver•Vent. (Lossnay)

ON

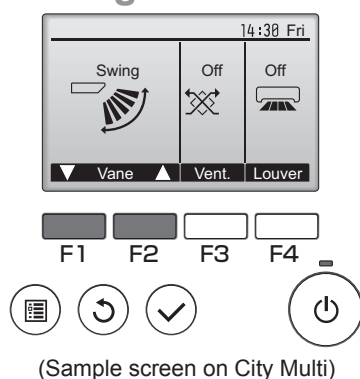
Button operation

## Accessing the menu

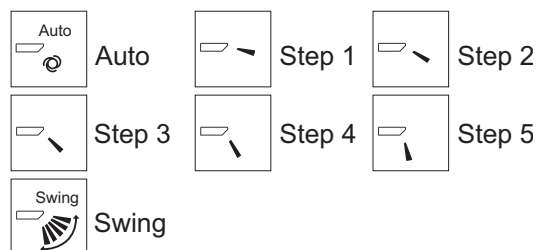


Select "Vane•Louver•Vent. (Lossnay)" from the Main menu (refer to page 18), and press the **SELECT** button.

## Vane setting



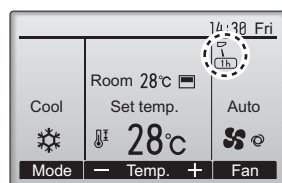
Press the **F1** or **F2** button to go through the vane setting options: "AUTO," "Step 1," "Step 2," "Step 3," "Step 4," "Step 5," and "Swing." Select the desired setting.



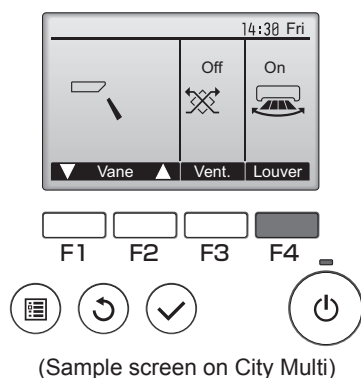
Select "Swing" to move the vanes up and down automatically.

When set to "Step 1" through "Step 5", the vane will be fixed at the selected angle.

- **1h** under the vane setting icon  
This icon will appear when the vane is set to "Step 5" and the fan operates at low speed during cooling or dry operation (depends on the model).  
The icon will go off in an hour, and the vane setting will automatically change.



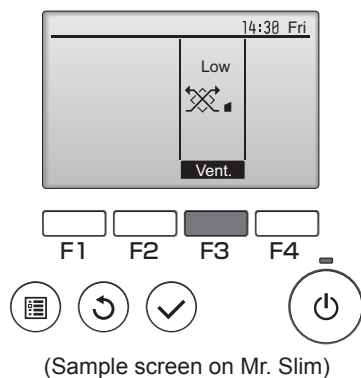
## Louver setting



Press the **F4** button to turn the louver swing ON and OFF.



## Vent. setting



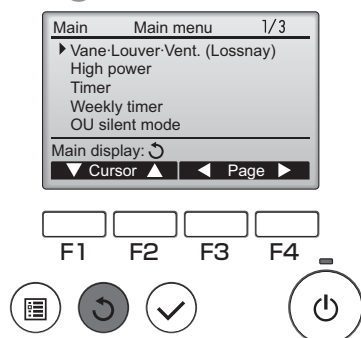
Press the **F3** button to go through the ventilation setting options in the order of "Off," "Low," and "High."

\* Settable only when LOSSNAY unit is connected.



• The fan on some models of indoor units may be interlocked with certain models of ventilation units.

## Returning to the Main menu



Press the **RETURN** button to go back to the Main menu.

# Controller operation-Function settings

## High power

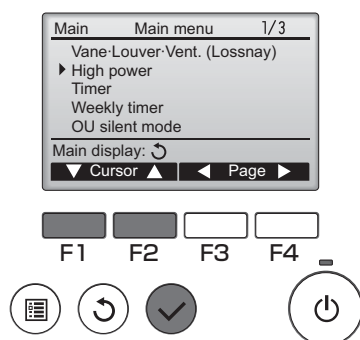


### Function description

High-power operation function allows the units to operate at higher-than-normal capacity so that the room air can be conditioned to an optimum temperature quickly. This operation will last for up to 30 minutes, and the unit will return to the normal operation mode at the end of the 30 minutes or when the room temperature reaches the preset temperature, whichever is earlier. The units will return to the normal operation when the operation mode or fan speed is changed.

### Button operation

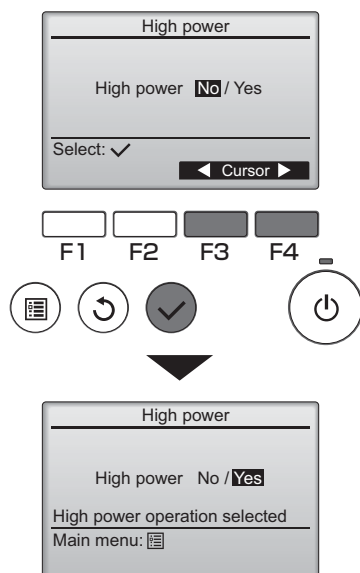
1



Select "High power" from the Main menu during Cooling, Heating, or AUTO operation (refer to page 18), and press the **SELECT** button.

"High power" function is available only on the models that support the function.

2



Move the cursor to "YES" with the **F3** or **F4** button, and press the **SELECT** button.

A confirmation screen will appear.

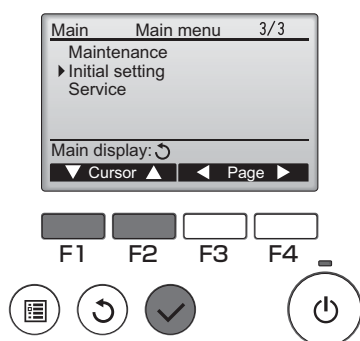
### Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

## Clock

### Button operation

1

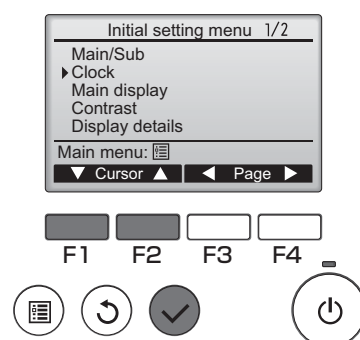


Select "Initial setting" from the Main menu (refer to page 18), and press the **SELECT** button.

#### Clock setting is required before making the following settings.

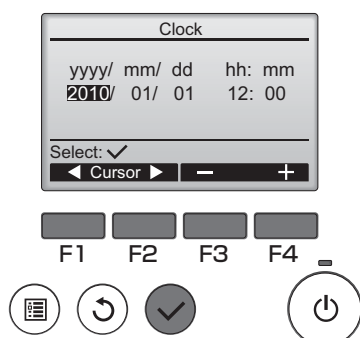
- On/Off timer
- Weekly timer
- OU silent mode
- Energy saving
- Night setback

2



Move the cursor to the "Clock" with the **F1** or **F2** button, and press the **SELECT** button.

3



Move the cursor to the desired item with the **F1** or **F2** button out of year, month, date, hour, or minute.

Increase or decrease the value for the selected item with the **F3** or **F4** button, and press the **SELECT** button.

A confirmation screen will appear.

#### Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

# Controller operation-Function settings

## Timer

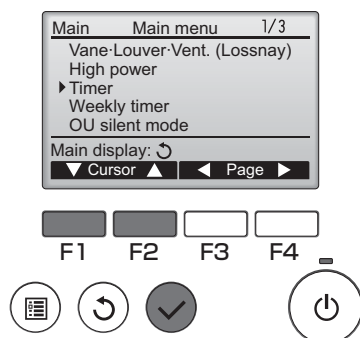
Main

P

### On/Off timer

Button operation

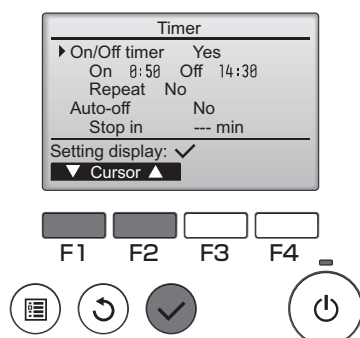
1



Select "Timer" from the Main menu (refer to page 18), and press the **SELECT** button.

**The On/Off timer will not work in the following cases:**  
when On/Off timer is disabled, during an error, during check (in the service menu), during test run, during remote controller diagnosis, when the clock is not set, during Function setting, when the system is centrally controlled (when On/Off operation from local controller is prohibited).

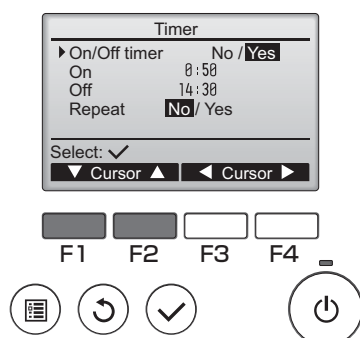
2



The current settings will appear.

Move the cursor to the On/Off timer, and press the **SELECT** button.

3

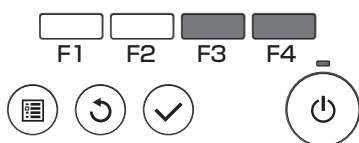
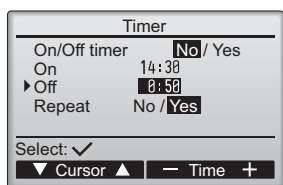


The screen to set the timer will appear.

Select the desired item with the **F1** or **F2** button out of "On/Off timer," "On," "Off," or "Repeat."



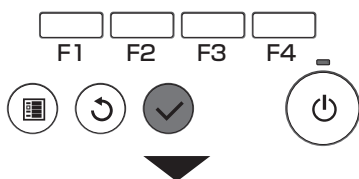
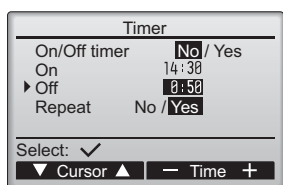
4



Change the setting with the **F3** or **F4** button.

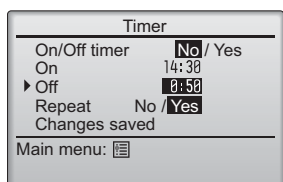
- On/Off timer: No (disable)/Yes (enable)
- On: Operation start time (settable in 5-minute increments)
  - \* Press and hold the button to rapidly advance the numbers.
- Off: Operation stop time (settable in 5-minute increments)
  - \* Press and hold the button to rapidly advance the numbers.
- Repeat: No (once)/Yes (repeat)

5



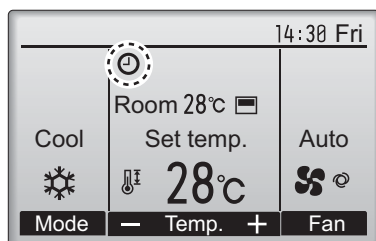
Press the **SELECT** button to save the settings.

A confirmation screen will appear.



#### Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button



will appear on the Main display in the Full mode when the On/Off timer is enabled.

# Controller operation-Function settings

## Timer

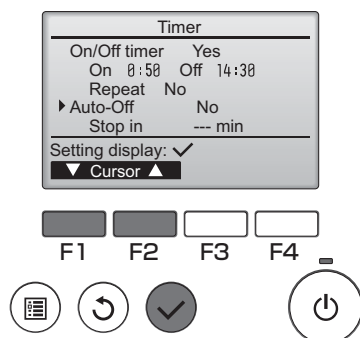
Main

P

### Auto-Off timer

Button operation

1

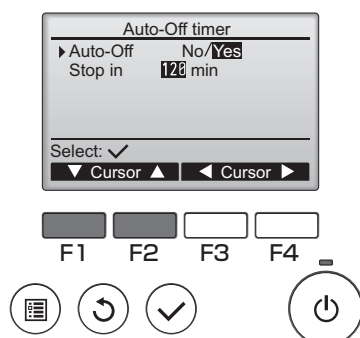


Bring up the Timer setting screen.  
(Refer to page 24.)

Select "Auto-Off", and press the **SELECT** button.

**The Auto-Off timer will not work in the following cases:**  
when Auto-Off timer is disabled, during an error, during check (in the service menu), during test run, during remote controller diagnosis, when the clock is not set, during Function setting, when the system is centrally controlled (when On/Off operation from local controller is prohibited).

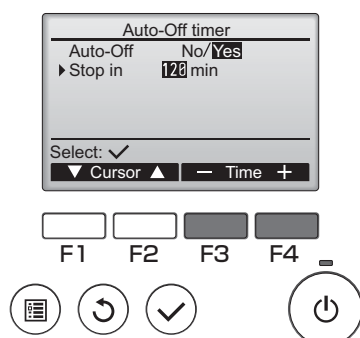
2



The current settings will appear.

Move the cursor to the "Auto-Off" or "Stop in --- min" with the **F1** or **F2** button.

3



Change the setting with the **F3** or **F4** button.

- Auto-Off: No (disable)/Yes (enable)
- Stop in --- min: Timer setting (The settable range is 30 to 240 minutes in 10-minute increments.)

4

Auto-Off timer

Auto-Off

No/Yes

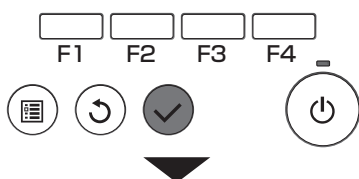
▶Stop in

120 min

Select: ✓

▼ Cursor ▲

Time +



Auto-Off timer

Auto-Off

No/Yes

▶Stop in

120 min

Changes saved

Main menu: [list icon]

Press the **SELECT** button to save the settings.

A confirmation screen will appear.

#### Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

# Controller operation-Function settings

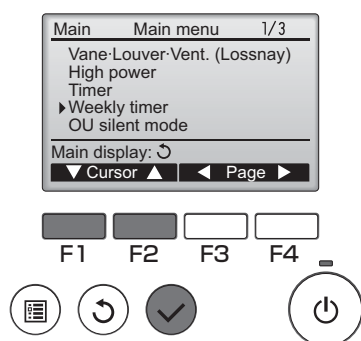
## Weekly timer

Main

P

Button operation

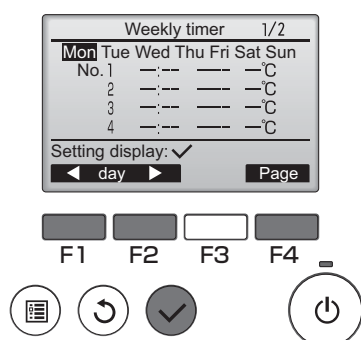
1



Select "Weekly timer" from the Main menu (refer to page 18), and press the **SELECT** button.

**The Weekly timer will not work in the following cases:**  
when the On/Off timer is enabled, when the weekly timer is disabled, during an error, during check (in the service menu), during test run, during remote controller diagnosis, when the clock is not set, during Function setting, when the system is centrally controlled (On/Off operation or temperature setting from local controller is prohibited).

2



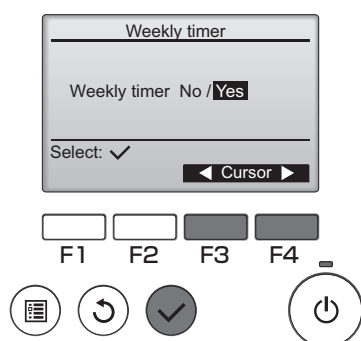
The current settings will appear.

Press the **F1** or **F2** button to see the settings for each day of the week.

Press the **F4** button to see patterns 5 through 8.

Press the **SELECT** button to go to the setting screen.

3



The screen to enable (Yes) and disable (No) the weekly timer will appear.

To enable the setting, move the cursor to "Yes" with the **F3** or **F4** button, and press the **SELECT** button.

4

Weekly timer 1/2						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
No. 1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---

Input display: ☒ day ☐ Select ☐ Page

F1 F2 F3 F4



The weekly timer setting screen will appear and the current settings will be displayed.

Up to eight operation patterns can be set for each day.

Move the cursor to the desired day of the week with the **F1** or **F2** button, and press the **F3** button to select it. (Multiple days can be selected.)

Press the **SELECT** button.

5

Weekly timer 1/2		
No.	Time	Temp
1	23:35	On 28°C
2	---	---
3	---	---
4	---	---

Select: ☒ Cursor ☐ - Content +

F1 F2 F3 F4



Weekly timer	
Day	Temp
Thu	28°C

Changes saved

Day selection: ☒

Operation pattern setting screen will appear.

Press the **F1** button to move the cursor to the desired pattern number.

Move the cursor to the time, On/Off, or temperature with the **F2** button.

Change the settings with the **F3** or **F4** button.

- Time: settable in 5-minute increments
- \* Press and hold the button to rapidly advance the numbers.

- On/Off

- Temperature: The settable temperature range depends on the connected indoor units.


Press the **SELECT** button to save the settings.

A confirmation screen will appear.

#### Navigating through the screens

- To go back to the setting change/day of the week selection screen ..... **SELECT** button
- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

14:38 Fri		
Cool	Room 28°C	Auto
Set temp.	28°C	
Mode	Temp.	Fan

 will appear on the Main display in the Full mode when the weekly timer setting for the current day exists.

The icon will not appear while the On/Off timer is enabled.

# Controller operation-Function settings

## OU silent mode

Main

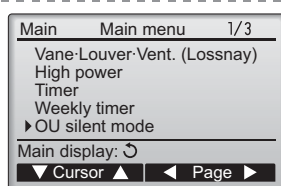
P

### Function description

This function allows the user to set the time periods in which priority is given to quiet operation of outdoor units over temperature control. Set the start and stop times each day of the week for the quiet operation. Select the desired silent level from "Middle" and "Quiet".

### Button operation

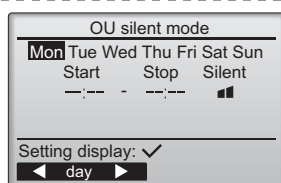
1



Select "OU silent mode" from the Main menu (refer to page 18), and press the **SELECT** button.

"OU silent mode" function is available only on the models that support the function.

2

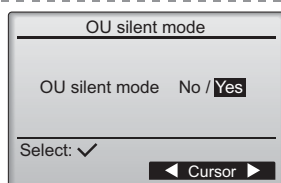


The current settings will appear.

Press the **F1** or **F2** button to see the settings for each day of the week.

Press the **SELECT** button to go to the setting screen.

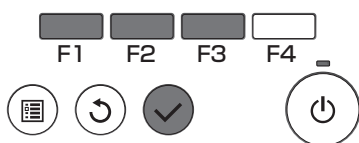
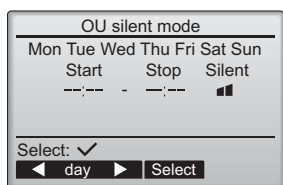
3



The screen to enable (Yes) and disable (No) the silent mode will appear.

To enable this setting, move the cursor to "Yes" with the **F3** or **F4** button, and press the **SELECT** button.

4

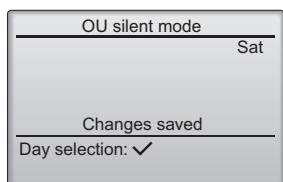
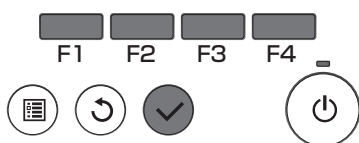
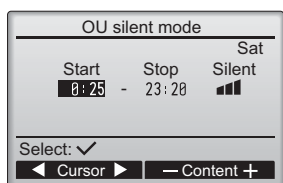


The OU silent mode setting screen will appear.

To make or change the setting, move the cursor to the desired day of the week with the **F1** or **F2** button, and press the **F3** button to select it. (Multiple days can be selected.)

Press the **SELECT** button.

5



The setting screen will appear.

Move the cursor to the desired item with the **F1** or **F2** button out of Start time, Stop time, or Silent level.

Change the settings with the **F3** or **F4** button.

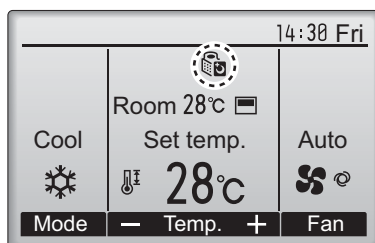
- Start/Stop time: settable in 5-minute increments
- \* Press and hold the button to rapidly advance the numbers.
- Silent level: Normal, Middle, Quiet




Press the **SELECT** button to save the settings. A confirmation screen will appear.

#### Navigating through the screens

- To go back to the setting change/day of the week selection screen ..... **SELECT** button
- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button



 will appear on the Main display in the Full mode during the OU silent mode.

# Controller operation-Function settings

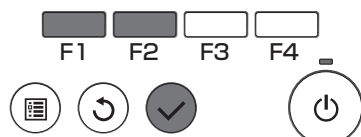
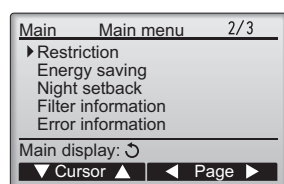
## Restriction



### Setting the temperature range restriction

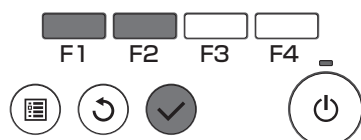
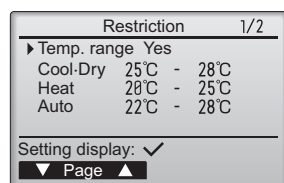
#### Button operation

1



Select "Restriction" from the Main menu (refer to page 18), and press the **SELECT** button.

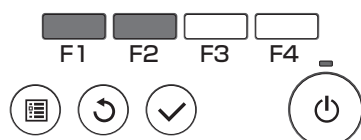
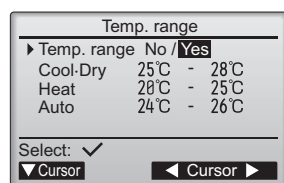
2



The current settings will appear.

Move the cursor to "Temp. range" with the **F1** or **F2** button, and press the **SELECT** button.

3

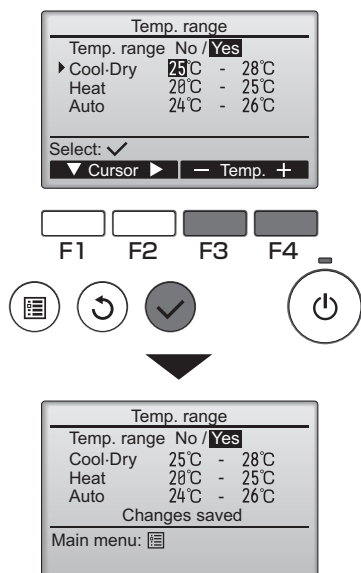


The screen to set the temperature range will appear.

Move the cursor to the desired item with the **F1** button out of "Temp. range," "Cool-Dry," "Heat," or "Auto."



# 4



Change the settings with the **F3** or **F4** button.

- Temp. range: No (unrestricted) or Yes (restricted)
- Cool•Dry: Upper and lower limit temperature
- Heat: Upper and lower limit temperature
- Auto: Upper and lower limit temperature

Temperature setting ranges

Mode	Lower limit	Upper limit
Cool•Dry	19 ~ 30°C (67 ~ 87°F)	30 ~ 19°C (87 ~ 67°F)
Heat	17 ~ 28°C (63 ~ 83°F)	28 ~ 17°C (83 ~ 63°F)
Auto	19 ~ 28°C (67 ~ 83°F)	28 ~ 19°C (83 ~ 67°F)

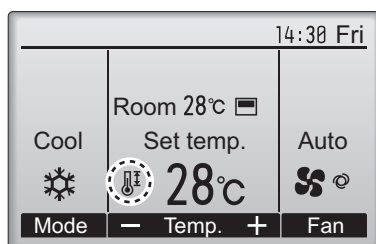
\* The settable range varies depending on the connected unit.


Press the **SELECT** button to save the settings.

A confirmation screen will appear.

## Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button



 will appear on the Main display in the Full mode when the temperature range is restricted.

# Controller operation-Function settings

## Restriction

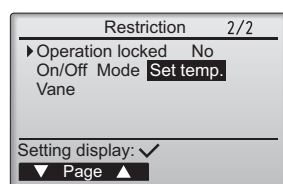


### Operation lock function

To enable the operation lock function, set the item "Operation locked" to "Yes".

#### Button operation

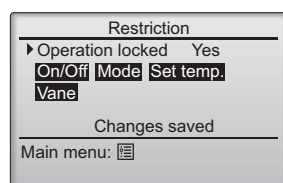
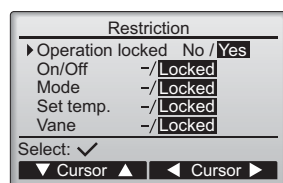
1



Bring up the Restriction setting screen. (Refer to page 32.)

Move the cursor to "Operation locked" and press the **SELECT** button.

2



The screen to make the settings for the operation lock function will appear.

Move the cursor to the desired item with the **F1** or **F2** button out of "Operation locked," "On/Off," "Mode," "Set temp.," or "Vane."

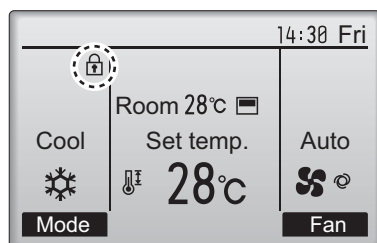
Change the settings with the **F3** or **F4** button.

- Operation locked: No (disable)/Yes (enable)
- On/Off: On/Off operation
- Mode: Operation mode setting
- Set temp.: Preset temp. setting
- Vane: Vane setting


Press the **SELECT** button to save the settings. A confirmation screen will appear.

#### Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button



(When Set temp. is locked)

 will appear on the Main display in the Full mode when the operation lock function setting is enabled.

Operation guide that corresponds to the locked function will be suppressed.

# Controller operation-Function settings

## Energy saving

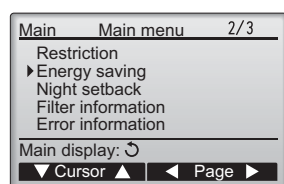
Main

P

### Automatic return to the preset temperature

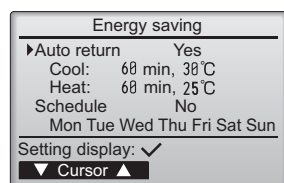
#### Button operation

1



Select "Energy saving" from the Main menu (refer to page 18), and press the **SELECT** button.

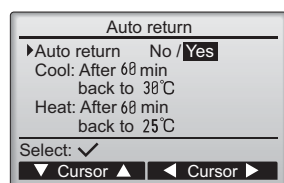
2



The current settings will appear.

Move the cursor to "Auto return" with the **F1** or **F2** button, and press the **SELECT** button.

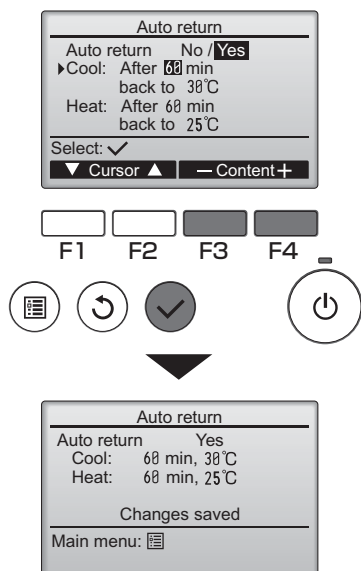
3



The screen to make the settings for the automatic return to the preset temperature will appear.

Move the cursor to the desired item with the **F1** or **F2** button out of "Auto return," "Cool," or "Heat."

4



Change the settings with the **F3** or **F4** button.

- Auto return: No (disable)/Yes (enable)
- Cool: Timer setting range is 30 to 120 minutes in 10-minute increments.  
Temperature setting range is 19 to 30°C (67 to 87°F).
- Heat: Timer setting range is 30 to 120 minutes in 10-minute increments.  
Temperature setting range is 17 to 28°C (63 to 83°F).

Press the **SELECT** button to save the settings. "Cool" includes "Dry" and "AUTO Cooling" modes, and "Heat" includes "AUTO Heating" mode.

The screen to set the selected item will appear.

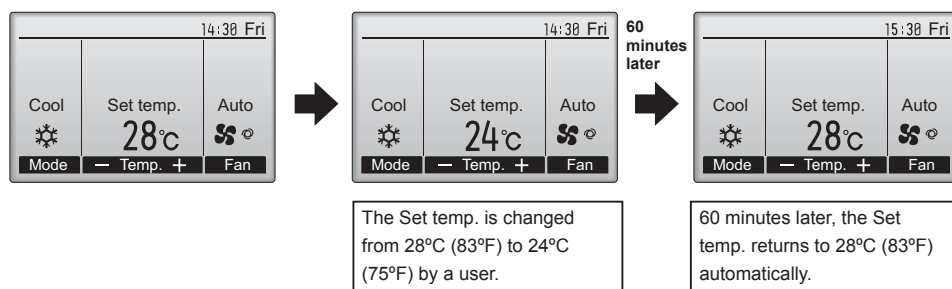
#### Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

The above settings will not be effective when the Temp. range is restricted and when the system is centrally controlled (when the Temp. range setting is prohibited from local controller).

<Sample screens when the Auto return function is enabled>

Example: Lower the Set temp. to 24°C (75°F). 60 minutes later, the Set temp. will be back to 28°C (83°F).



# Controller operation-Function settings

## Energy saving

Main

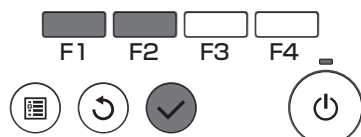
P

### Setting the energy-saving operation schedule

#### Button operation

1

Energy saving	
Auto return	Yes
Cool:	60 min, 30°C
Heat:	60 min, 25°C
▶Schedule	No
	Mon Tue Wed Thu Fri Sat Sun
Setting display:	✓
▼ Cursor ▲	

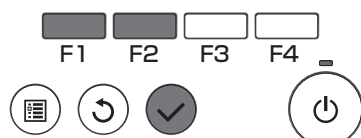


Bring up the "Energy saving" screen. (Refer to page 36.)

Move the cursor to the "Schedule," and press the **SELECT** button.

2

Energy saving	
Mon	Tue Wed Thu Fri Sat Sun
No. 1	--- -- -- -- -- %
2	--- -- -- -- -- %
3	--- -- -- -- -- %
4	--- -- -- -- -- %
Setting display:	✓
◀ day ▶	



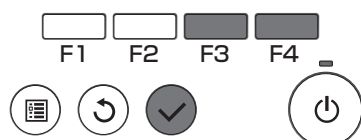
The screen to see the schedule will appear.

Press the **F1** or **F2** button to see the settings for each day of the week.

Press the **SELECT** button to go to the setting screen.

3

Energy saving	
Energy saving	No / <b>Yes</b>
Select:	✓
◀ Cursor ▶	



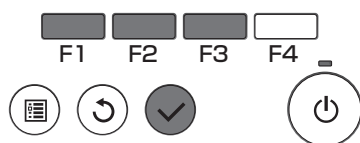
The screen to enable (Yes)/disable (No) the energy-saving operation schedule will appear.

Select "No" or "Yes" with the **F3** or **F4** button. Press the **SELECT** button to go to the setting change/day of the week selection screen.

4

Energy saving							
Mon	Tue	Wed	Thu	Fri	Sat	Sun	
No. 1	-:-	-	-:-	-:-	-:-	-:-	%
2	-:-	-	-:-	-:-	-:-	-:-	%
3	-:-	-	-:-	-:-	-:-	-:-	%
4	-:-	-	-:-	-:-	-:-	-:-	%

Input: ✓  
 ◀ day ▶ Select



The setting change/day of the week selection screen will appear.

Up to four operation patterns can be set for each day.

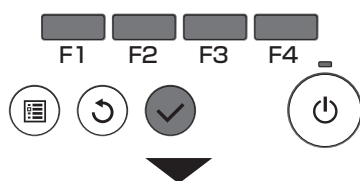
Move the cursor to the desired day of the week with the **F1** or **F2** button, and press the **F3** button to select it. (Multiple days can be selected.)

Press the **SELECT** button to go to the pattern setting screen.

5

Energy saving							
Mon							
No. 1	13:00	-	14:00	80%			
2	14:00	-	15:00	70%			
3	-:-	-	-:-	-:-			
4	-:-	-	-:-	-:-			

Select: ✓  
 ▼ Cursor ▶ -Content+



Energy saving	
Mon	
Changes saved	
Day selection: ✓	

The pattern setting screen will appear.

Press the **F1** button to move the cursor to the desired pattern number.

Move the cursor to the desired item with the **F2** button out of the start time, stop time, and energy-saving rate (arranged in this order from the left).

Change the settings with the **F3** or **F4** button.

- Start/Stop time: settable in 5-minute increments
- \* Press and hold the button to rapidly advance the numbers.
- Energy-saving rate: The setting range is 0% and 50 to 90% in 10% increments.

Press the **SELECT** button to save the settings.

A confirmation screen will appear.

The lower the value, the greater the energy-saving effect.

14:30 Fri		
Cool	Room 28°C	Auto
Set temp.	28°C	
Mode	Temp.	Fan

will appear on the Main display in the Full mode when the unit is operated in the energy saving mode.

#### Navigating through the screens

- To go back to the setting change/day of the week selection screen ..... **SELECT** button
- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

# Controller operation-Function settings

## Night setback

Main

P

### Function description

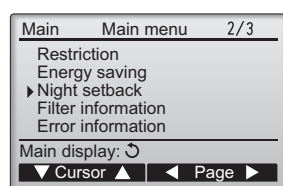
This control starts heating operation when the control object group is stopped and the room temperature drops below the preset lower limit temperature. Also, this control starts cooling operation when the control object group is stopped and the room temperature rises above the preset upper limit temperature.

The Night setback function is not available if the operation and the temperature setting are performed from the remote controller.

If the room temperature is measured by the air-conditioner's suction temperature sensor, the accurate temperature may not be obtained when the air-conditioner is inactive or when the air is not clean. In this case, switch the sensor to a remote sensor (PAC-SE40TSA/PAC-SE41TS-E) or a remote control sensor.

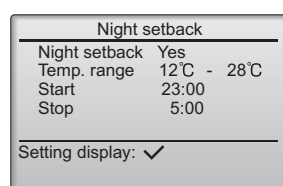
### Button operation

1



Select "Night setback" from the Main menu (refer to page 18), and press the **SELECT** button.

2

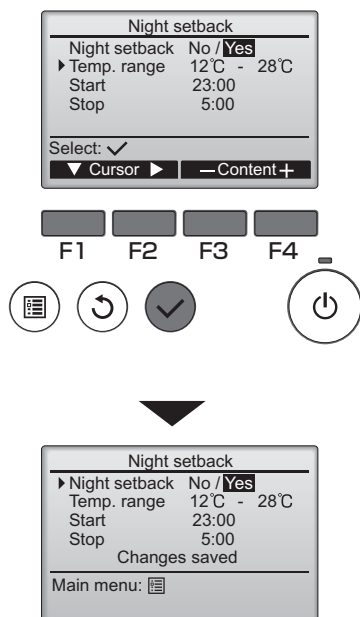


The current settings will appear.

Press the **SELECT** button to go to the setting screen.



# 3



Move the cursor to the desired item with the **[F1]** or **[F2]** button out of Night setback No (disable)/ Yes (enable), Temp. range, Start time, or Stop time.

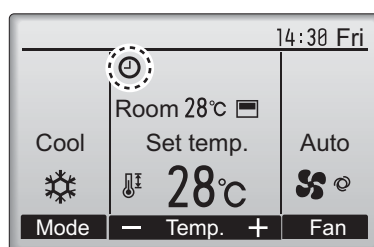
Change the settings with the **[F3]** or **[F4]** button.


- Temp. range: The lower limit temperature (for heating operation) and the upper limit temperature (for cooling operation) can be set. The temperature difference between the lower and upper limits must be 4°C (8°F) or more. The settable temperature range varies depending on the connected indoor units.
- Start/Stop time: settable in 5-minute increments
- \* Press and hold the button to rapidly advance the numbers.

Press the **[SELECT]** button to save the settings. A confirmation screen will appear.

## Navigating through the screens

- To go back to the Main menu ..... **[MENU]** button
- To return to the previous screen ..... **[RETURN]** button



 will appear on the Main display in the Full mode when the Night setback function is enabled.

**The Night setback will not work in the following cases:**  
when the unit is in operation, when the Night setback function is disabled, during an error, during check (in the service menu), during test run, during remote controller diagnosis, when the clock is not set, during Function setting, when the system is centrally controlled (On/Off operation or temperature setting from local controller is prohibited).

# Controller operation-Function settings

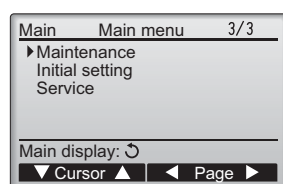
## Manual vane angle

Main

OFF

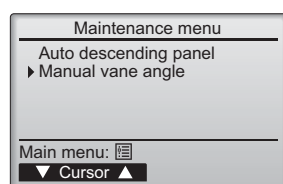
Button operation

1



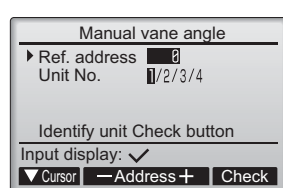
Select "Maintenance" from the Main menu (refer to page 18), and press the **SELECT** button.

2



Select "Manual vane angle" with the **F1** or **F2** button, and press the **SELECT** button.

3



Move the cursor to "Ref. address" or "Unit No." with the **F1** button to select.

Select the refrigerant address and the unit number for the units to whose vanes are to be fixed, with the **F2** or **F3** button, and press the **SELECT** button.

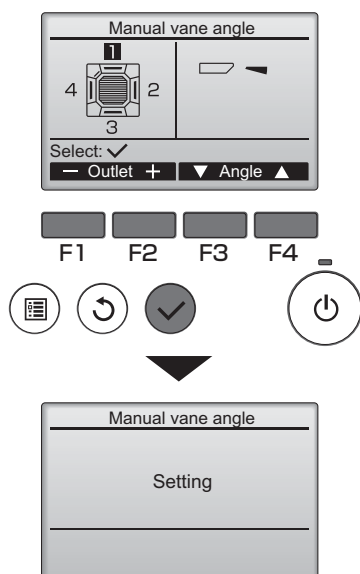
• Ref. address: Refrigerant address

• Unit No.: 1, 2, 3, 4

Press the **F4** button to confirm the unit.

The screen at left shows a sample display on Mr. Slim. On City Multi units, "M-NET address," is displayed instead of "Ref. address", and the "Unit No." will not be displayed.

# 4



The current vane setting will appear.

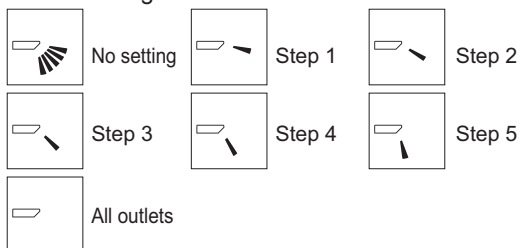
Select the desired outlets from 1 through 4 with the **[F1]** or **[F2]** button.

• Outlet: "1," "2," "3," "4," and "1, 2, 3, 4, (all outlets)"

Press the **[F3]** or **[F4]** button to go through the option in the order of "No setting (reset)," "Step 1," "Step 2," "Step 3," "Step 4," and "Step 5."

Select the desired setting.

## ■ Vane setting




Press the **[SELECT]** button to save the settings.

A screen will appear that indicates the setting information is being transmitted.

The setting changes will be made to the selected outlet.

The screen will automatically return to the one shown above (step 4) when the transmission is completed.

Make the settings for other outlets, following the same procedures.

**If all outlets are selected,  will be displayed the next time the unit goes into operation.**

## Navigating through the screens

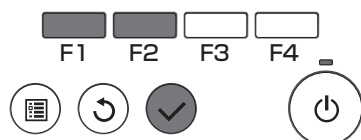
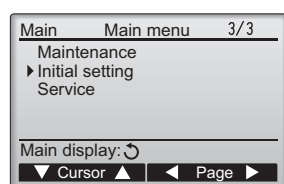
- To go back to the Main menu ..... **[MENU]** button
- To return to the previous screen ..... **[RETURN]** button

# Controller operation-Function settings

## Main display

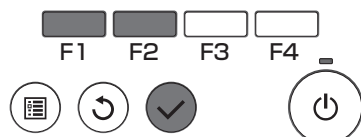
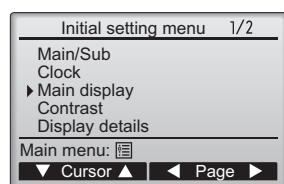
### Button operation

1



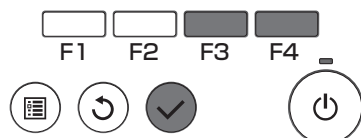
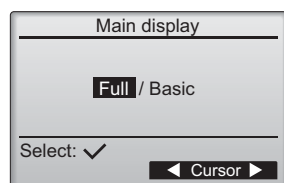
Select "Initial setting" from the Main menu (refer to page 18), and press the **SELECT** button.

2



Move the cursor to the "Main display" with the **F1** or **F2** button, and press the **SELECT** button.

3



Select "Full" or "Basic" (refer to page 8) with the **F3** or **F4** button, and press the **SELECT** button.

A confirmation screen will appear.

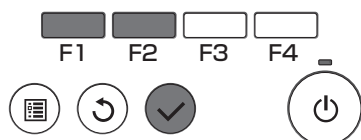
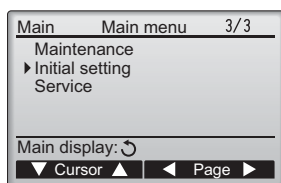
#### Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

## Contrast

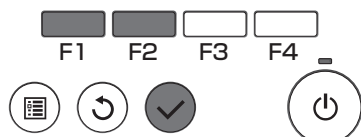
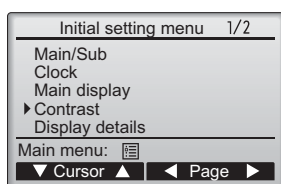
### Button operation

1



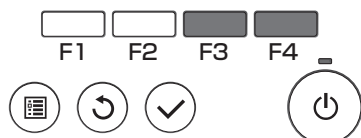
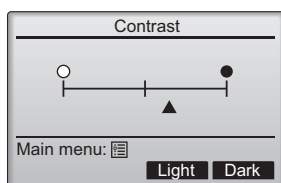
Select "Initial setting" from the Main menu (refer to page 18), and press the **SELECT** button.

2



Move the cursor to the "Contrast" with the **F1** or **F2** button, and press the **SELECT** button.

3



Adjust the contrast with the **F3** or **F4** button, and press the **MENU** or **RETURN** button.

#### Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

# Controller operation-Function settings

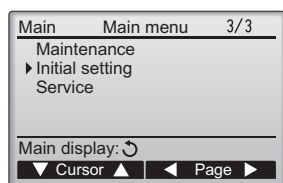
## Language selection

### Function description

The desired language can be set. The language options are English, French, German, Spanish, Italian, Portuguese, Swedish, and Russian.

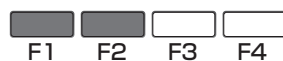
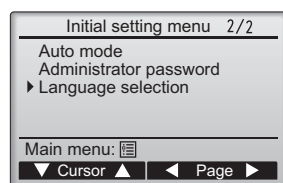
### Button operation

1



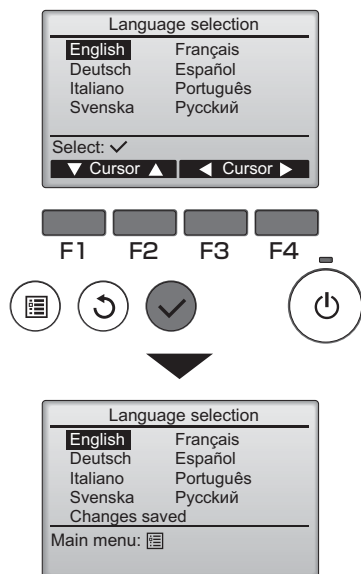
Select "Initial setting" from the Main menu (refer to page 18), and press the **SELECT** button.

2



Move the cursor to the "Language selection" with the **F1** or **F2** button, and press the **SELECT** button.

3



Move the cursor to the language you desire with the **F1** through **F4** buttons, and press the **SELECT** button to save the setting.

When the power is on for the first time, the Language selection screen will be displayed. Select a desired language. The system will not start-up without language selection.

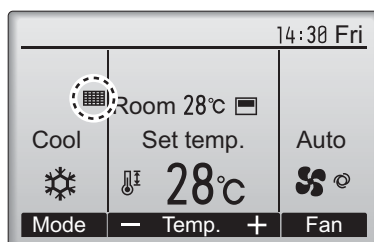
A screen will appear that indicates the setting has been saved.

Navigating through the screens

- To go back to the Main menu ..... **MENU** button
- To return to the previous screen ..... **RETURN** button

# Maintenance

## Filter information

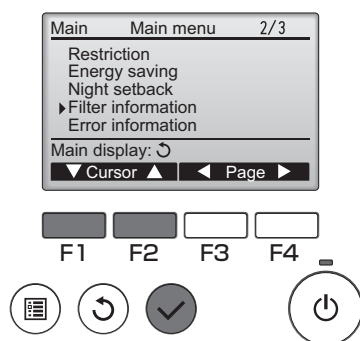


The filter icon will appear on the Main display in the Full mode when it is time to clean the filters.

**Wash, clean, or replace the filters when this sign appears.**  
Refer to the indoor unit Instructions Manual for details.

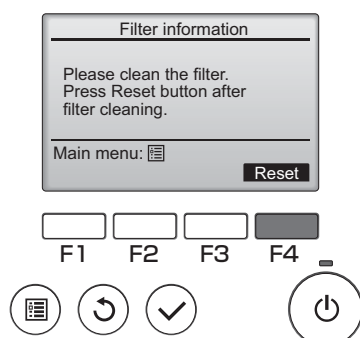
### Button operation

1



Select "Filter information" from the Main menu (refer to page 18), and press the **SELECT** button.

2



Press the **F4** button to reset filter sign.

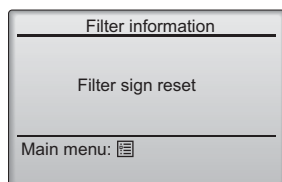
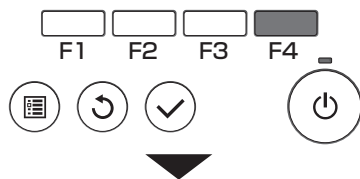
Refer to the indoor unit Instructions Manual for how to clean the filter.



3



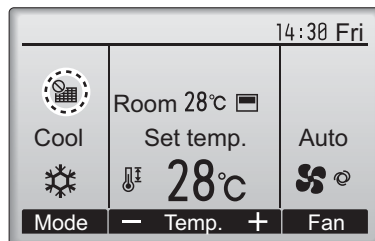
Select "OK" with the **[F4]** button.




A confirmation screen will appear.

Navigating through the screens

- To go back to the Main menu ..... **[MENU]** button
- To return to the previous screen ..... **[RETURN]** button




When the  is displayed on the Main display in the Full mode, the system is centrally controlled and the filter sign cannot be reset.

If two or more indoor units are connected, filter cleaning timing for each unit may be different, depending on the filter type.

The icon  will appear when the filter on the main unit is due for cleaning.

When the filter sign is reset, the cumulative operation time of all units will be reset.

The icon  is scheduled to appear after a certain duration of operation, based on the premise that the indoor units are installed in a space with ordinary air quality. Depending on the air quality, the filter may require more frequent cleaning.

The cumulative time at which filter needs cleaning depends on the model.

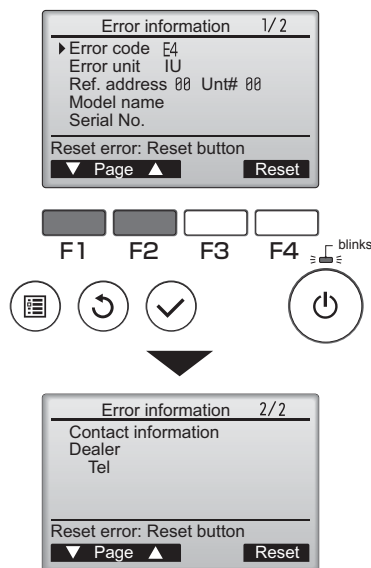
# Troubleshooting

## Error information

**When an error occurs, the following screen will appear.  
Check the error status, stop the operation, and consult your dealer.**

### Button operation

1



Error code, error unit, refrigerant address, unit model name, and serial number will appear. The model name and serial number will appear only if the information have been registered.

Press the **[F1]** or **[F2]** button to go to the next page.

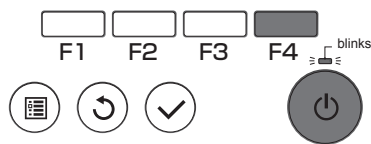
Contact information (dealer's phone number) will appear if the information have been registered.

# 2

Error information 1/2	
Error code	E4
Error unit	IU
Ref. address	00 Unt# 00
Model name	
Serial No.	
Reset error: Reset button	
▼ Page ▲	Reset

Press the **F4** button or the **ON/OFF** button to reset the error that is occurring.

**Errors cannot be reset while the ON/OFF operation is prohibited.**



Error reset	
Reset current error?	
Cancel OK	

Select "OK" with the **F4** button.



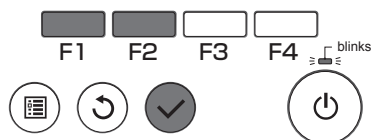
Error reset	
Error reset	
Main menu: [List Icon]	

Navigating through the screens  
• To go back to the Main menu ..... **MENU** button

## Checking the error information

Main Main menu 2/3	
Restriction	
Energy saving	
Night setback	
Filter information	
► Error information	
Main display: [Clock Icon]	
▼ Cursor ▲	◀ Page ▶

While no errors are occurring, page 2/2 of the error information (refer to page 50) can be viewed by selecting "Error information" from the Main menu (refer to page 18).  
Errors cannot be reset from this screen.



# Specifications

## Controller specifications

	Specification
Product size	120(W) x 120(H) x 19(D) mm (4 3/4 x 4 3/4 x 3/4 [in]) (not including the protruding part)
Net weight	0.25 kg (9/16 lb.)
Rated power supply voltage	12 VDC (supplied from indoor units)
Power consumption	0.3 W
Usage environment	Temperature 0 ~ 40°C (32 ~ 104°F) Humidity 30 ~ 90%RH (with no dew condensation)
Material	Panel: PMMA Main body: PC + ABS

## Function list (as of December 1, 2010)

○ : Supported    ✕ : Unsupported				
	Function	City Multi	Mr. Slim	Required password
Operation/ Display	Power ON/OFF	○	○	-
	Operation mode switch	○	○	-
	Room temperature setting	○	○	-
	Fan speed setting	○	○	-
	Vane angle setting	○	○	-
	Louver setting	○	○	-
	Ventilation setting	○	○	-
	High power operation	✕	○	-
	Auto descending panel	○	○	-
	Backlight	○	○	-
	Contrast setting	○	○	-
	Main display mode switch	○	○	-
	Clock setting	○	○	-
	Clock display format setting	○	○	-
	(Date display format setting)	○	○	-
	Language selection (8 languages)	○	○	-
	Room temperature display	○	○	-
	Error display	○	○	-
	Filter information	○	○	-
Schedule/ Timer	On/Off timer	○	○	administrator
	Auto-off timer	○	○	administrator
	Weekly timer	○	○	administrator
	Night setback	○	○	administrator
	OU silent mode	✕	○	administrator
Energy saving	Auto return	○	○	administrator
	Schedule	✕	○	administrator
Restriction	Operation lock	○	○	administrator
	Temperature range restriction	○	○	administrator
	Password	○	○	administrator
	(Administrator and Maintenance)	○	○	maintenance
Others	Manual vane angle	○	○	-
	Test run	○	○	maintenance
	Model information input	○	○	maintenance
	Dealer information input	○	○	maintenance
	Function setting	✕	○	maintenance
	Smooth maintenance	✕	○	maintenance
	Refrigerant volume check	✕	○	maintenance
	Refrigerant leak check	✕	○	maintenance

\* The supported functions vary depending on the unit model.



### List of functions that can/cannot be used in combination

	High power	On/Off timer	Auto-off timer	Weekly timer	OU silent mode	Temperature range	Operation lock	Auto return	Energy saving schedule	Night setback
High power		○	○	○	△1	○	△2	○	△1	○
On/Off timer	○		○	×1	○	○	○	○	○	△3
Auto-off timer	○	○		○	○	○	○	○	○	△4
Weekly timer	○	×1	○		○	○	○	○	○	△5
OU silent mode	△1	○	○	○		○	○	○	○	○
Temperature range	○	○	○	○	○		○	×2	○	△6
Operation lock	△2	○	○	○	○	○		○	○	○
Auto return	○	○	○	○	○	×2	○		○	△7
Energy saving schedule	△1	○	○	○	○	○	○	○		○
Night setback	○	△3	△4	△5	○	△6	○	△7	○	

○ : Can be used in combination    × : Cannot be used in combination    △ : Restricted

△1: This function is enabled after completing the high power operation because the high power operation has the higher priority.

△2: This function cannot be operated if some operation is locked.

△3: Night setback function cannot be used when the unit is in operation by On/Off timer setting.

△4: Auto-off function cannot be used for Night setback operation.

△5: Night setback function cannot be used when the unit is in operation by Weekly timer setting.

△6: Temperature range setting cannot be used for Night setback operation.

△7: Auto return function cannot be used for Night setback operation.

×1: Weekly timer setting is not effective because On/Off timer has the higher priority.

×2: Auto return function cannot be used because Temperature range setting has the higher priority.



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

The product at hand is based on the following EU regulations:

- Low Voltage Directive 2006/95/EC
- Electromagnetic Compatibility Directive 2004/108/EC



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WT05948X01