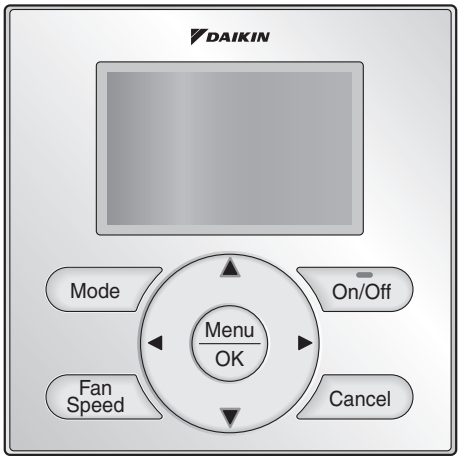
OPERATION MANUAL

VRV W T-series water-cooled system air conditioner



MODEL

RWEQ96TATJU	RWEQ96TAYDU	RWEQ96TAYCU
RWEQ120TATJU	RWEQ120TAYDU	RWEQ120TAYCU
RWEQ144TATJU	RWEQ144TAYDU	RWEQ144TAYCU
RWEQ192TATJU	RWEQ192TAYDU	RWEQ192TAYCU
RWEQ216TATJU	RWEQ216TAYDU	RWEQ216TAYCU
RWEQ240TATJU	RWEQ240TAYDU	RWEQ240TAYCU
RWEQ264TATJU	RWEQ264TAYDU	RWEQ264TAYCU
RWEQ288TATJU	RWEQ288TAYDU	RWEQ288TAYCU
RWEQ312TATJU	RWEQ312TAYDU	RWEQ312TAYCU
RWEQ336TATJU	RWEQ336TAYDU	RWEQ336TAYCU
RWEQ360TATJU	RWEQ360TAYDU	RWEQ360TAYCU
RWEQ384TATJU	RWEQ384TAYDU	RWEQ384TAYCU
RWEQ408TATJU	RWEQ408TAYDU	RWEQ408TAYCU
RWEQ432TATJU	RWEQ432TAYDU	RWEQ432TAYCU

Read these instructions carefully before installation.
Keep this manual in a handy place for future reference.
This manual should be left with the equipment owner.

RWEQ96TATJU	RWEQ288TATJU	RWEQ96TAYDU	RWEQ288TAYDU	RWEQ96TAYCU	RWEQ288TAYCU
RWEQ120TATJU	RWEQ312TATJU	RWEQ120TAYDU	RWEQ312TAYDU	RWEQ120TAYCU	RWEQ312TAYCU
RWEQ144TATJU	RWEQ336TATJU	RWEQ144TAYDU	RWEQ336TAYDU	RWEQ144TAYCU	RWEQ336TAYCU
RWEQ192TATJU	RWEQ360TATJU	RWEQ192TAYDU	RWEQ360TAYDU	RWEQ192TAYCU	RWEQ360TAYCU
RWEQ216TATJU	RWEQ384TATJU	RWEQ216TAYDU	RWEQ384TAYDU	RWEQ216TAYCU	RWEQ384TAYCU
RWEQ240TATJU	RWEQ408TATJU	RWEQ240TAYDU	RWEQ408TAYDU	RWEQ240TAYCU	RWEQ408TAYCU
RWEQ264TATJU	RWEQ432TATJU	RWEQ264TAYDU	RWEQ432TAYDU	RWEQ264TAYCU	RWEQ432TAYCU

VRV W T-series water-cooled system air conditioner

Operation manual

Contents

Safety Considerations

Read these ***Safety Considerations for Operations*** carefully before installing air conditioner or heat pump. Make sure that the unit operates properly during the startup operation. Instruct the customer on how to operate and maintain the unit.
Inform customers that they should store this Operation Manual with the Installation Manual for future reference.
Meanings of **DANGER, WARNING, CAUTION,** and **NOTE** Symbols:

⚠ **DANGER** .....Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ **WARNING**.....Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ **CAUTION**.....Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

⚠ **NOTE**.....Indicates situations that may result in equipment or property-damage accidents only.

⚠ **DANGER**

- **Do not install the unit in an area where flammable materials are present due to risk of explosion resulting in serious injury or death.**
- **Any abnormalities in the operation of the air conditioner or heat pump such as smoke or fire will result in severe injury or death. Turn off the power and contact your dealer immediately.**
- **Refrigerant gas may produce toxic gas if it comes into contact with fire, such as from a fan, heater, stove, or cooking device. Exposure to this gas will result in severe injury or death.**
- **For refrigerant leakage, consult your dealer.**
  Refrigerant gas is heavier than air and replaces oxygen. A massive leak will result in oxygen depletion, especially in basements, and an asphyxiation hazard will result leading to serious injury or death.
- **If equipment utilizing a burner is used in the same room as the air conditioner or heat pump, there is the danger of oxygen deficiency which could lead to an asphyxiation hazard resulting in serious injury or death. Be sure to ventilate the room sufficiently to avoid this hazard.**
- **Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.**

⚠ **WARNING**

- **Contact your dealer for repair and maintenance. Improper repair and maintenance could result in water leakage, electric shock, and fire. Only use accessories made by Daikin that are specifically designed for use with the equipment and have them installed by a professional.**
- **Contact your dealer to move and reinstall the air conditioner or heat pump. Incomplete installation could result in water leakage, electric shock, and fire.**
- **Never let the indoor unit or the remote controller get wet. Water could result in an electric shock or a fire.**
- **Never use flammable spray such as hair spray, lacquer, or paint near the unit. Flammable spray could result in a fire.**
- **When a fuse blows out, never replace it with one of incorrect ampere ratings or different wires. Always replace any blown fuse with a fuse of the same specification.**
- **Never remove the fan guard of the unit. A fan rotating at high speed without the fan guard is very dangerous and could result in injury.**
- **Never inspect or service the unit by yourself. Contact a qualified service person to perform this work.**
- **Turn off all electrical power before doing any maintenance to avoid the risk of serious electric shock; never sprinkle or spill water or liquids on the unit.**
- **Do not touch the switch with wet fingers.**
  Touching a switch with wet fingers could result in electric shock.
- **Do not allow children to play on or around the unit to prevent injury.**
- **The heat exchanger fins are sharp enough to cut. To avoid injury wear gloves or cover the fins while working around them.**
- **Do not put a finger or other objects into the air inlet or air outlet. The fan is rotating at high speed and could result in injury.**
- **Check the unit foundation for damage on a continuous basis, especially if it has been in use for a long time. If left in a damaged condition the unit may fall and could result in injury.**
- **Placing a flower vase or other containers with water or other liquids on the unit could result in a shock or fire if a spill occurs.**
- **Do not touch the air outlet or horizontal blades while the swing flap is in operation could result in fingers getting caught and injured.**
- **Never touch the internal parts of the controller. Do not remove the front panel because some parts inside are dangerous to touch. To check and adjust internal parts, contact your dealer.**

- **Be sure to establish a ground.**
  Do not ground the unit to a utility pipe, arrester, or telephone ground. Incomplete grounding may cause electrical shock, or fire. A high surge current from lightning or other sources may cause damage to the air conditioner.
- **Although this is a recognized measure for additional protection, with the grounding system in North America, a dedicated GFCI may not be necessary.**

⚠ CAUTION

- **Do not use the air conditioner or heat pump for any other purposes other than comfort cooling or heating. Do not use the unit for cooling precision instruments, food, plants, animals or works of art.**
- **Do not place items under the indoor unit it could result in damage by condensates that may form if the humidity is above 80% or if the drain outlet gets blocked.**
- **Before cleaning, stop the operation of the unit by turning the power off or by pulling the supply cord out from its receptacle. Otherwise, an electric shock and injury could result.**
- **Do not wash the air conditioner or heat pump with excessive water. An electric shock or fire could result.**
- **Avoid placing the controller in a spot splashed with water. Water entering the controller could result in an electric shock or damage the internal electronic parts.**
- **Do not operate the air conditioner or heat pump when using a room fumigation type of insecticide. Failure to observe this could result in the chemicals to be deposited in the unit and can endanger the health of those who are hypersensitive to chemicals.**
- **Do not turn off the power immediately after stopping operation. Always wait for at least five minutes before turning off the power. Otherwise, water leakage could result.**
- **The appliance is not intended for use by young children or infirm persons without supervision.**
- **The remote controller should be kept away from children so they cannot play with it.**
- **Consult with the installation contractor for cleaning.**
- **Incorrect cleaning of the inside of the air conditioner or heat pump could result in the plastics parts break resulting in water leakage or electric shock.**
- **Do not touch the air inlet or aluminum fin of the air conditioner or heat pump as they can cut and could result in injury.**
- **Do not place objects in direct proximity of the outdoor unit. Do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once inside the unit, animals result in the unit malfunctioning, and could result in smoke or fire when they make contact with electrical parts.**

⚠ NOTE

- **Never press the button of the remote controller with a hard, pointed object. The remote controller result in damage.**
- **Never pull or twist the electric wire of the remote controller. It may result in the unit malfunctioning.**
- **Do not place appliances that produce open flames in places that are exposed to the air flow of the unit or under the indoor unit. It may result in incomplete combustion or deformation of the unit due to the heat.**
- **Do not expose the controller to direct sunlight. The LCD display can become discolored and may result in fail to display the data.**
- **Do not wipe the controller operation panel with benzene, thinner, chemical dust cloth, etc. The result may be that the panel becomes discolored or the coating can peel off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Then wipe it with another dry cloth.**
- **Dismantling of the unit, disposal of the refrigerant, oil, and additional parts, should be done in accordance with the relevant local, state, and national regulations.**
- **Operate the air conditioner or heat pump in a sufficiently ventilated area and not surrounded by obstacles. Do not use the air conditioner or heat pump in the following places.**
  a. Places with a mist of mineral oil, such as cutting oil.
  b. Locations such as coastal areas where there is a lot of salt in the air.
  c. Locations such as hot springs where there is a lot of sulfur in the air.
  d. Locations such as factories where the power voltage varies a lot.
  e. In cars, boats, and other vehicles.
  f. Locations such as kitchens where oil may splatter or where there is steam in the air.
  g. Locations where equipment produces electromagnetic waves.
  h. Places with an acid or alkaline mist.
  i. Places where fallen leaves can accumulate or where weeds can grow.
- **Take snow protection measures. Contact your dealer for the details of snow protection measures, such as the use of a snow protection hood.**
- **Do not attempt to do electrical work or grounding work unless you are licensed to do so. Consult with your dealer for electrical work and grounding work.**
- **Pay Attention to Operating Sound. Be sure to use the following places:**
  a. Places that can sufficiently withstand the weight of the air conditioner or heat pump yet can suppress the operating sound and vibration.
  b. Places where warm air from the air outlet of the outdoor unit or the operating sound of the outdoor unit does not annoy neighbors.
- **Make sure that there are no obstacles close to the outdoor unit. Obstacles close to the outdoor unit may drop the performance of the outdoor unit or increase the operating sound of the outdoor unit.**
- **Consult your dealer if the air conditioner or heat pump in operation generates unusual noise.**
- **Make sure that the drainpipe is installed properly to drain water. If no water is discharged from the drainpipe while the air conditioner or heat pump is in the cooling mode, the result may be that the drainpipe becomes clogged with dust or dirt and water leakage from the indoor unit may occur. Stop operating the air conditioner or heat pump and contact your dealer.**

[Place of Installation]

- **Make sure that the air conditioner is located in a sufficiently ventilated place not surrounded by obstacles.**
- **Do not use the air conditioner in the following places.**
  a. Places with a mist of mineral oil, such as cutting oil.
  b. Locations such as coastal areas where there is a lot of salt in the air.
  c. Locations such as hot springs resorts where there is a lot of sulfur in the air.
  d. Locations such as factories where the power voltage varies a lot.
  e. In cars, boats, and other vehicles.
  f. Locations such as kitchens where oil may splatter or there is steam in the air.
  g. Locations where equipment that produces electromagnetic waves is found.
  h. Places with an acid or alkaline mist.
  i. Places where fallen leaves are accumulated or weeds grow close together.
- **Take snow protection measures.**
  Contact your local dealer for the details of snow protection measures, such as the use of a snow protection hood.

[Electrical Work]

- **Do not attempt to conduct electrical work or grounding work unless you are licensed to do so.**
  Consult with your local dealer for electrical work and grounding work.
- **Use a dedicated circuit for the air conditioner.**

[Pay Attention to Operating Sound]

- **Be sure to use the following places.**
  a. Places that can sufficiently withstand the weight of the air conditioner and suppress the operating sound and vibration of the air conditioner.
  b. Places where warm air from the air outlet of the outdoor unit or the operating sound of the outdoor unit does not annoy neighbors.
- **Make sure that there are no obstacles close to the outdoor unit.**
  Obstacles close to the outdoor unit may drop the performance of the outdoor unit or an increase in the operating sound of the outdoor unit.
- **Consult your local dealer if the air conditioner in operation generates unusual noise.**

[Drainage through Drainpipe]

- **Make sure that the drainpipe is installed properly to drain water.**
  If no water is discharged from the drainpipe while the air conditioner is cooling operation, the drainpipe may be clogged with dust or dirt and water leakage from the indoor units may result.
  Stop operating the air conditioner and consult your local dealer.

Specifications

Model name			RWEQ96TAYDU	RWEQ120TAYDU	RWEQ144TAYDU
Power supply					
	Phase	—	3~	3~	3~
	Frequency	Hz	60	60	60
	Voltage	V	460	460	460
Nominal cooling capacity		(Btu/h)	96000	120000	144000
Nominal heating capacity		(Btu/h)	108000	135000	162000
Dimensions H×W×D		in.	38-9/16×30-1/8×22-1/16	38-9/16×30-1/8×22-1/16	38-9/16×30-1/8×22-1/16
		(mm)	980×765×560	980×765×560	980×765×560
Weight		(lbs.)	426	430	430
		(kg)	193	195	195
Refrigerant					
	Type	—	R410A	R410A	R410A
	Charge (*1)	(lbs.)	17.4	21.2	21.2
		(kg)	7.9	9.6	9.6
Design pressure					
	High side	(psig)	478	478	478
		(MPa)	3.30	3.30	3.30
	Low side	(psig)	320	320	320
		(MPa)	2.21	2.21	2.21

Model name			RWEQ96TATJU	RWEQ120TATJU	RWEQ144TATJU
Power supply					
	Phase	—	3~	3~	3~
	Frequency	Hz	60	60	60
	Voltage	V	208/230	208/230	208/230
Nominal cooling capacity		(Btu/h)	96000	120000	144000
Nominal heating capacity		(Btu/h)	108000	135000	162000
Dimensions H×W×D		in.	38-9/16×30-1/8×22-1/16	38-9/16×30-1/8×22-1/16	38-9/16×30-1/8×22-1/16
		(mm)	980×765×560	980×765×560	980×765×560
Weight		(lbs.)	419	423	423
		(kg)	190	192	192
Refrigerant					
	Type	—	R410A	R410A	R410A
	Charge (*1)	(lbs.)	17.4	21.2	21.2
		(kg)	7.9	9.6	9.6
Design pressure					
	High side	(psig)	478	478	478
		(MPa)	3.30	3.30	3.30
	Low side	(psig)	320	320	320
		(MPa)	2.21	2.21	2.21

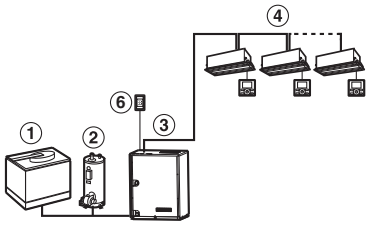
Model name			RWEQ96TAYCU	RWEQ120TAYCU	RWEQ144TAYCU
Power supply					
	Phase	—	3~	3~	3~
	Frequency	Hz	60	60	60
	Voltage	V	575	575	575
Nominal cooling capacity		(Btu/h)	96000	120000	144000
Nominal heating capacity		(Btu/h)	108000	135000	162000
Dimensions H×W×D		in.	38-9/16×30-1/8×22-1/16	38-9/16×30-1/8×22-1/16	38-9/16×30-1/8×22-1/16
		(mm)	980×765×560	980×765×560	980×765×560
Weight		(lbs.)	423	426	426
		(kg)	192	193	193
Refrigerant					
	Type	—	R410A	R410A	R410A
	Charge (*1)	(lbs.)	17.4	21.2	21.2
		(kg)	7.9	9.6	9.6
Design pressure					
	High side	(psig)	478	478	478
		(MPa)	3.30	3.30	3.30
	Low side	(psig)	320	320	320
		(MPa)	2.21	2.21	2.21

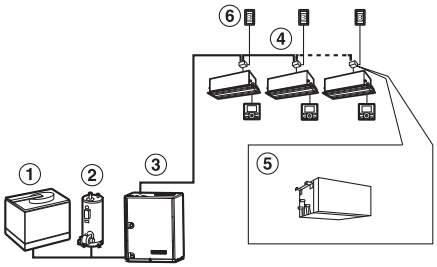
(*1) Factory charge

What to do before Operation

This operation manual is for the following system with standard control. Before initiating operation, contact your Daikin dealer for the operation that corresponds to your system type and mark.

If your installation has a customized control system, ask your Daikin dealer for the operation that corresponds to your system.





1. Closed cooling tower
2. Boiler
3. Outside unit
4. Indoor unit
5. Branch Selector unit (for cool/heat changeover)
6. Cool/Heat selector

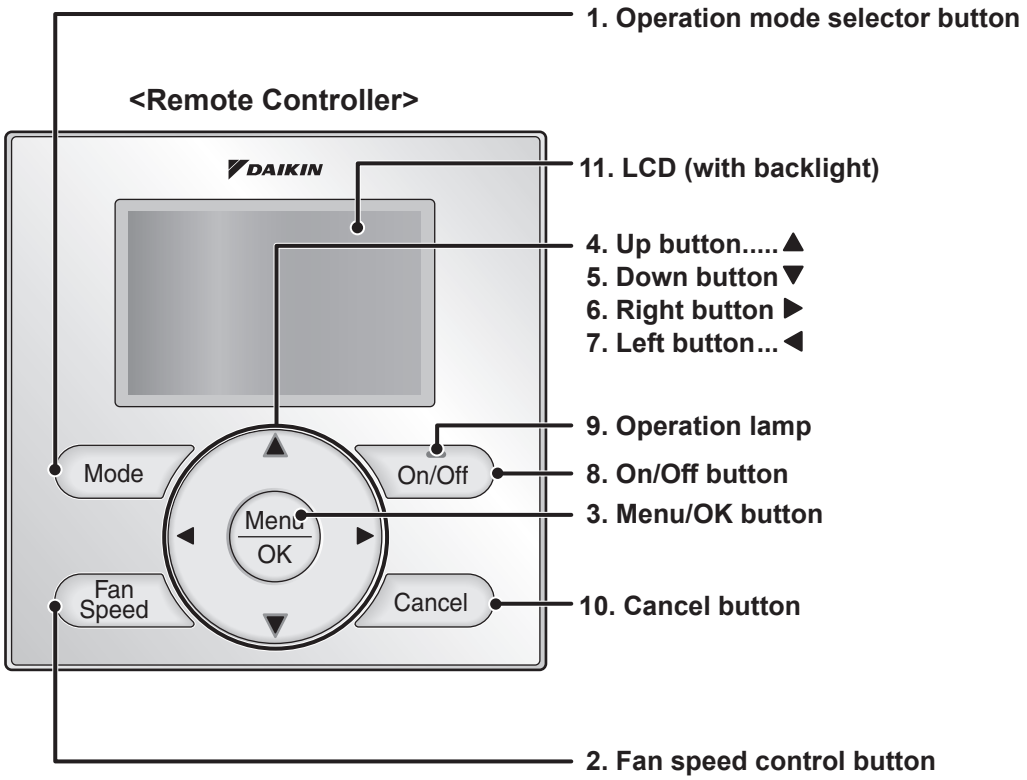
	Cool/Heat selector	Operation mode
Heat pump system	❏ Yes ❏ No	Cool, Heat, Fan
Heat recovery system	❏ Yes ❏ No	Cool, Heat, Auto, Fan

Note

- The Cool/Heat selector cannot connect to the multi Branch Selector unit.

Remote Controller and Cool/Heat Selector : Name and Function of Each Switch and Display

Button Locations and Descriptions



Functions other than basic operation items (i.e., On/Off, Operation mode selector, Fan speed control, and temperature setpoint) are set from the menu screen.

NOTE

- **Do not install the remote controller in places exposed to direct sunlight, or the LCD will be damaged.**
- **Do not pull or twist the remote controller cord, or the remote controller may be damaged.**
- **Do not use objects with sharp ends to press the buttons on the remote controller, or damage may result.**

1. Operation mode selector button

- Press this button to select the operation mode of your preference. **(See page 9.)**
  * Available modes vary with the indoor unit model.

2. Fan speed control button

- Press this button to select the fan speed of your preference. **(See page 10.)**
  * Available fan speeds vary with the indoor unit model.

3. Menu/OK button

- Used to indicate the main menu. **(See page 15 for the menu items.)**
- Used to enter the selected item.

4. Up button ▲

- Used to raise the setpoint.
- The item above the current selection will be highlighted. (The highlighted items will be scrolled continuously when the button is continuously pressed.)
- Used to change the selected item.

5. Down button ▼

- Used to lower the setpoint.
- The item below the current selection will be highlighted. (The highlighted items will be scrolled continuously when the button is continuously pressed.)
- Used to change the selected item.

6. Right button ▶

- Used to highlight the next items on the right-hand side.
- Each screen is scrolled in the right-hand direction.

7. Left button ◀

- Used to highlight the next items on the left-hand side.
- Each screen is scrolled in the left-hand direction.

8. On/Off button

- Press this button and system will start.
- Press this button again to stop the system.

9. Operation lamp (Green)

- This lamp illuminates solid during normal operation.
- This lamp blinks if a error occurs.

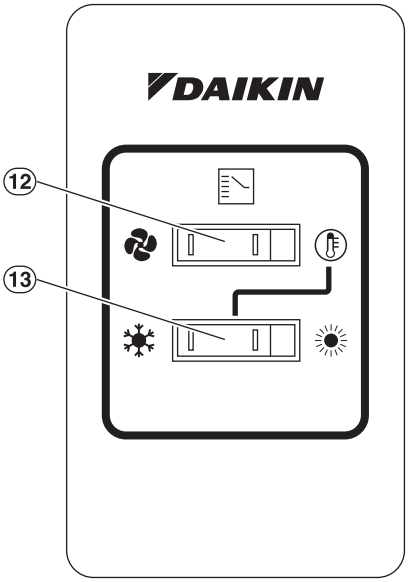
10. Cancel button

- Used to return to the previous screen.

11. LCD (with backlight)

- The backlight will be illuminated for approximately 30 seconds by pressing any button.
- If two remote controllers are used to control a single indoor unit, only the controller to be accessed first will have backlight functionality.

<Cool/Heat selector>



12. Fan only/air conditioning selector switch

- Set the switch to " " for fan only operation or to " " for heating or cooling operation.

13. Cool/heat changeover switch

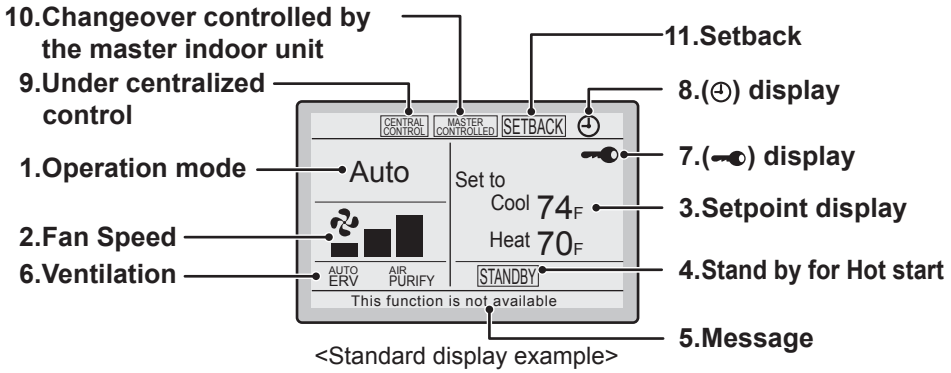
- Set the switch to " " for cooling operation or to " " for heating operation.

Names and Functions

Liquid Crystal Display

- Two types of liquid crystal display (LCD) are available. The standard display is set by default.
- Detailed display can be selected in the main menu. **(See page 25.)**
- The displayed contents of the screen vary with the operation mode of the indoor unit model. (The following display will appear when the indoor unit is in automatic operation.)

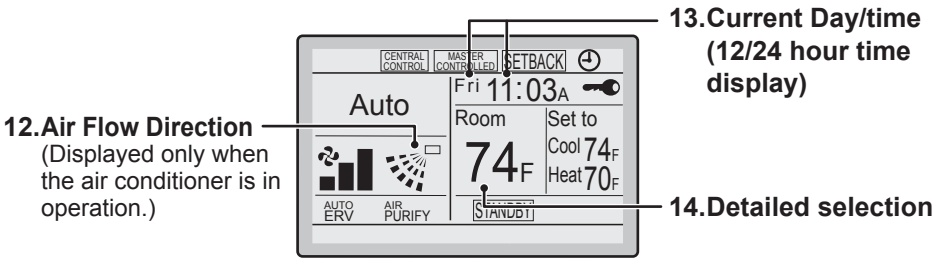
Standard display



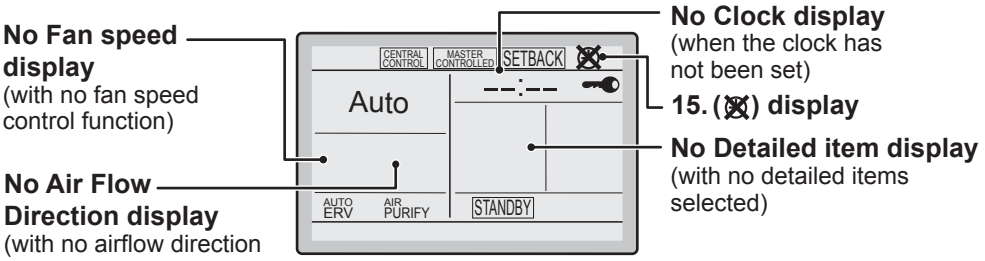
<Standard display example>

Detailed Display

■ **The air flow direction, clock, and detailed selection items appear on the detailed display screen in addition to the items appearing on the standard display.**



<Detailed display example 1>



<Detailed display example 2>

1. Operation mode

- Used to display the current operation mode: Cool, Heat, Vent, Fan, Dry or Auto.

2. Fan Speed

- Used to display the fan speed that is set for the indoor unit.
- The fan speed will not be displayed if the connected model does not have fan speed control functionality.

3. Setpoint display

- Used to display the setpoint for the indoor unit.
- Use the Celsius/Fahrenheit item in the main menu to select the temperature unit (Celsius or Fahrenheit).

4. Stand by for Hot start

" STANDBY " **(See page 10.)**

If ventilation icon is displayed in this field:

- Indicates that an energy recovery ventilator is connected. For details, refer to the Operation Manual of the ERV.

5. Message

The following messages may be displayed.
"This function is not available"

- Displayed for a few seconds when an operation button is pressed and the indoor unit does not provide the corresponding function.
- In a remote control group, the message will not appear if at least one of the indoor units provides the corresponding function.

"Error: Push Menu button"
"Warning: Push Menu button"

- Displayed if an error or warning is detected **(see page 30)**.

"Time to clean filter"
"Time to clean element"
"Time to clean filter & element"

- Displayed as a reminder when it is time to clean the filter or element **(see page 29).**

6. Ventilation

- Displayed when a energy recovery ventilator is connected.
- **Ventilation Mode icon.**" AUTO ERV ERV BYPASS "
  These icons indicate the current ventilation mode (ERV only) (AUTO, ERV, BYPASS).
- **Air Purify ICON** " AIR PURIFY "
  This icon indicates that the air purifying unit (option) in operation.

7. display **(See page 14.)**

- Displayed when the key lock is set.

8. display **(See page 19.)**

- Displayed if the Schedule or Off timer is enabled.

9. Under Centralized control " CENTRAL CONTROL "

- Displayed if the system is under the management of a multi-zone controller (option) and the operation of the system through the remote controller is limited.

10. Changeover controlled by the master indoor unit " MASTER CONTROLLED "

- Displayed when another indoor unit on the system has the authority to change the operation mode between cool and heat.

11. Setback " SETBACK " **(See page 11.)**

- The setback icon flashes when the unit is turned on under the setback control.

12. Air Flow Direction " "

- Displayed when the air flow direction and swing are set **(see page 17)**.
- If the connected indoor unit model does not include oscillating louvers this item will not be displayed.

13. Current Day/Time (12/24 hour time display)

- Displayed if the clock is set **(see page 27)**.
- If the clock is not set, " -- : -- " will be displayed.
- 12 hour time format is displayed by default.
- Select 12/24 hour time display option in the main menu under "Clock & Calendar".

14. Detailed selection

- Displayed if the detailed display item is selected **(see page 26)**.
- Detailed items are not selected by default.

15. display

- Displayed when the clock needs to be set.
- The schedule function will not work unless the clock is set.

Operation Range

This unit is designed to operate in the ranges provided below. Operating the unit outside the specified range may render the unit inoperable or lead to nuisance condensate drip from the indoor unit.

	COOLING	HEATING
Ambient temperature around the outside unit	35 to 104°FDB(2 to 40°CDB)	
Ambient humidity around the outside unit	≤ 80%	
Indoor temperature	57 to 77°FWB(14 to 25°CWB)	59 to 80°FDB(15 to 27°CDB)
Entering water temperature of the outside unit	50 to 113°F*(10 to 45°C*)	
Water flow rate in the outside unit	13.2(21.2**) to 39.6gpm***(50(80**) to 150L/min***)	

* The entering water temperature range may vary depending on the system or if antifreeze is used.
For details, contact your Daikin dealer.
** In case of antifreeze used.
*** This value shows a quantity of water per one outside unit.

Note

- Cooling operation:
  If the air conditioner is operated continuously while the indoor temperature is 70°FDB(21°CDB) or below and the humidity is 80% or over, the interiors of the indoor units may cause icing and water leakage may result.

Operation Procedure

- Operation procedure varies according to the combination of outside unit and remote controller. Read the chapter “What to do before operation”.
- Do not turn it off during the air conditioning season to ensure a smooth startup operation.
- If the main power supply is turned off during operation, operation will restart automatically after the power turns back on again.

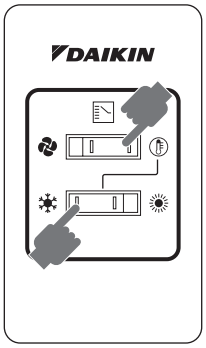
Note

- Automatic operation (Heat recovery system only)
  In this operation mode, cool/heat changeover is automatically conducted.

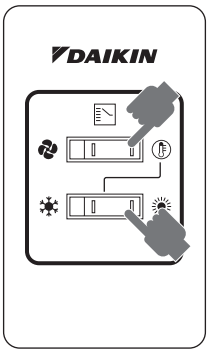
For Systems with Cool/Heat Selector

- Select operation mode with the Cool/Heat selector as follows:

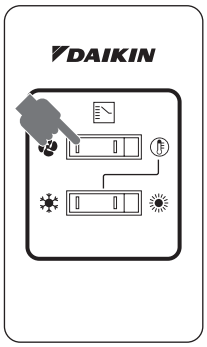
Cooling operation



Heating operation



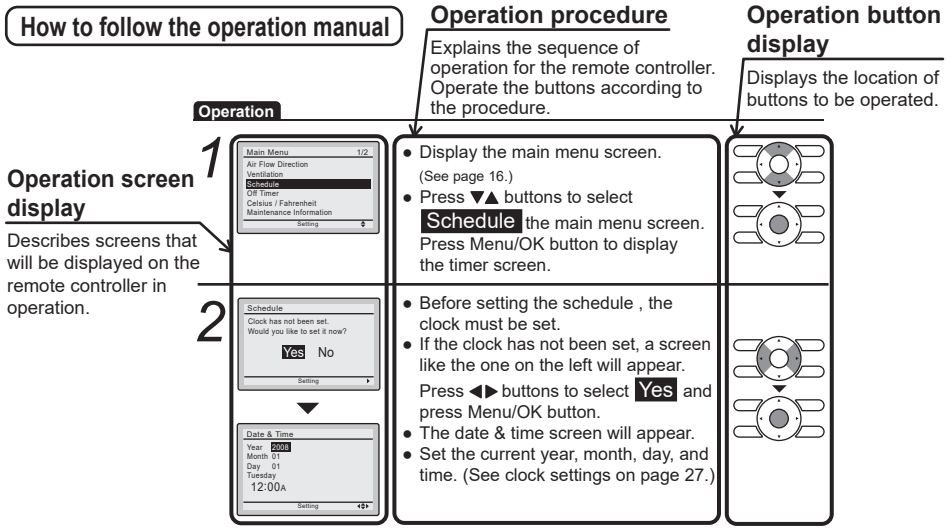
Fan only operation



- Press On/Off button.
  The operation lamp lights up and the system starts operation.

Basic Operation

Cool/Heat/Auto/Fan Operation

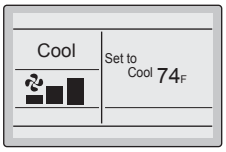


Preparation

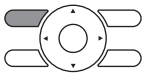
● For mechanical protection purposes, apply power to the outside units at least six hours before starting the operation of the system.

Operation

1



● Press the Operation mode selector button several times until the desired mode Cool, Heat, Fan, or Auto mode is selected.



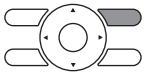
* Unavailable operation modes are not displayed.

Note

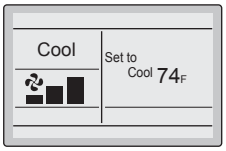
● Before changing the mode, confirm that the display does not indicate master controlled status. Both heat and cool mode may not be selected if the unit is master controlled. See page 13 if MASTER CONTROLLED icon blinks.

2

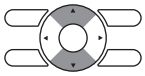
● Press On/Off button.
The Operation lamp (green) will illuminate and the system will start operating.



3



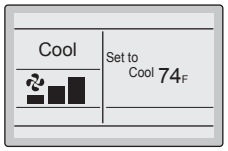
● The setpoint will increase by 1°F (or 1°C) when ▲ button is pressed and decrease by 1°F (or 1°C) when ▼ button is pressed.

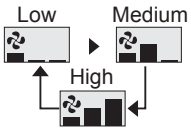


* Setpoint is not available in fan or dry mode.

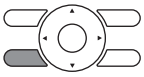
Basic Operation

4





- To change the fan speed, press the Fan speed control button and select the desired fan speed from Low, Medium or High.



* Only two fan speed adjustment levels, low and high may be available depending on the type of indoor unit.
* The system may be in automatic fan speed control for equipment protection purposes.
* The system may be in automatic fan speed control according to the room temperature. It is normal for the fan to intermittently stop operating.
* It is normal for a delay to occur when changing the fan speed.

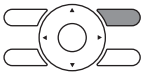
5

- Adjust Air Flow Direction from the main menu (see page 17).

* If the connected indoor unit model does not include oscillating louvers this function will not be available.

6

- When the On/Off button is pressed again, the system will stop operating and the operation lamp will turn off.



* When the system is stopped while in the heating mode, the fan will continue to operate for approximately one minute to remove residual heat from the indoor unit.

Note

- To prevent water damage or system failure, do not immediately remove power from the indoor unit following system operation. Wait at least five minutes for the condensate pump to finishing draining residual water from the unit.

Characteristics of Heat Mode

The system automatically controls the following operating modes to prevent the reduction of heating capacity and space comfort.

Hot start

- When the system goes into heat mode, the indoor unit fan will stop in order to prevent a cold draft. (In that case, " STANDBY " (Hot start) will be displayed on the remote controller.)

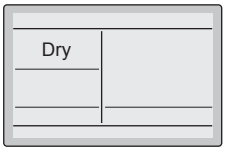
Dry Mode

Preparation

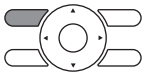
- For equipment protection purposes, apply power to the outside units at least six hours before starting the operation of the system.
- The dry mode may not be selected if the remote controller is master controlled and the system is not already in the cooling mode of operation. (see page 13 for details)
- In case of changing the operation mode by the Cool/Heat selector, set it to cooling operation mode.

Operation

1



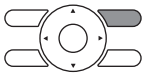
● Press Mode button several times until the Dry mode is selected.



* The dry mode may not be available depending on the type of indoor unit.

2

● Press On/Off button.
The Operation lamp (green) will illuminate and the system will start operating.



* In Dry mode, the system maintains automatic temperature and fan speed control. Therefore, temperature setpoint or fan speed settings are not available while the indoor unit is in the Dry mode.

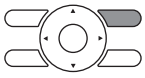
3

● Adjust Air Flow Direction from the main menu (see page 17).

* If the connected indoor unit model does not include oscillating louvers this function will not be available.

4

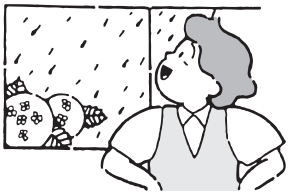
● When the On/Off button is pressed again, the system will stop operating and the operation lamp will turn off.



Note
- To prevent water damage or system failure, do not immediately remove power from the indoor unit following system operation. Wait at least five minutes for the condensate pump to finishing draining residual water from the unit.

Characteristic of Dry mode

The Dry mode dehumidifies the space at reduced cooling capacity to prevent the room temperature from dropping to uncomfortable levels.



Setback

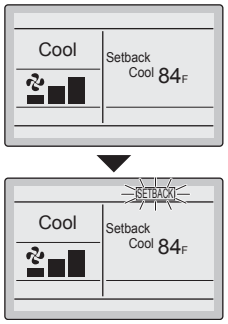
The Setback feature will maintain the space temperature in a specific range during unoccupied periods.

Note
- This function will temporarily start an indoor unit that was previously turned off by the user or turned off from a schedule event / off timer.
- This function must be enabled by the system installer.

Basic Operation

Operation

1



- The setback icon flashes when the unit is turned on under the setback control.

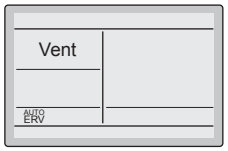
Ventilation Mode When the Indoor Unit is Interlocked with Energy Recovery Ventilator

Preparation

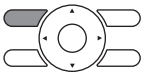
- For equipment protection purposes, apply power to the outside units at least six hours before starting the operation of the system.

Operation

1



- When operating the energy recovery ventilator (ERV) between seasons without the air conditioner, set the control to ventilation mode.



2

- Changes to the ventilation mode are made from the main menu.

* Ventilation Mode: Auto, ERV, and Bypass

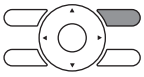
3

- Changes to the ventilation rate are made from the main menu.

* Ventilation Rate: Low or High

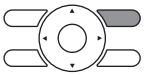
4

- Press On/Off button.
  The Operation lamp (green) will illuminate and the system will start operating.



5

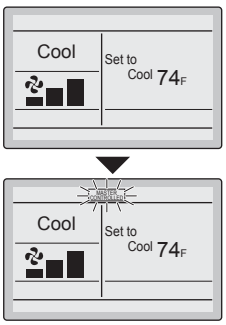
- When the On/Off button is pressed again, the system will stop operating and the operation lamp will turn off.

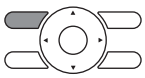


Setting the Cool / Heat Changeover Master

Setting Changes See page 14 for an explanation of the cool/heat changeover master indoor unit.

1





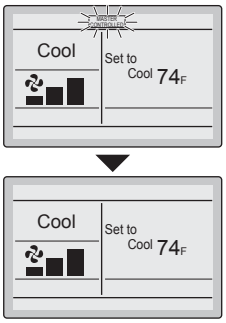
- Press the Operation Mode Selector button on the remote controller of the changeover master indoor unit for at least four seconds while the backlight is illuminated.
- The "MASTER CONTROLLED" icon on each remote controller for the indoor units connected to the same outside unit or Branch Selector unit will start flashing.

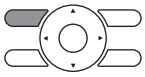
* Vent mode setting changes are possible regardless of the cool/heat changeover master indoor unit.
* If cool/heat mode is configured for control from the outside unit, all remote controllers serving the associated indoor units will display its "MASTER CONTROLLED" icon.

- Set the cool/heat changeover master indoor unit as outlined below.

Selection Settings The icon "MASTER CONTROLLED" will flash on all remote controllers when the power is turned ON for the first time.

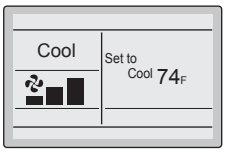
2

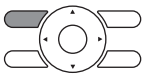




- Press the Mode Selector button on the remote controller of the indoor unit which is to serve as the cool/heat changeover master.
  The remote controller for the changeover master indoor unit is established and the MASTER CONTROLLED icon is no longer displayed.
  Other remote controllers in the system (indoor units served by the same outside unit or indoor units served by the same Branch Selector unit) will now display the MASTER CONTROLLED icon.

3





- Press the Mode button on the remote controller of the indoor unit designated as the cool/heat changeover master (the remote controller not displaying the MASTER CONTROLLED icon) repeatedly until the desired mode is selected.
  The display will change to "Fan", "Dry", "Auto", "Cool", "Heat" each time the button is pressed.
- Simultaneously, the other indoor units on the system will follow suit and change modes to reflect the new mode selected at the changeover master remote controller.

Cool / Heat Mode Selection Availability

- "Cool", "Heat" and "Auto" are all only available for selection on the cool/heat changeover master indoor unit. The following table indicates the available operating modes of the other indoor units on the system based upon the selected mode of the master indoor unit.

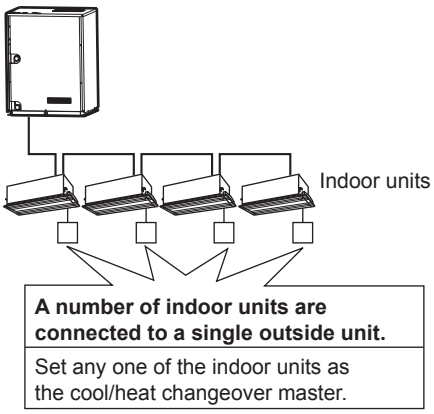
Basic Operation

When the master indoor unit is set to	The other indoor units in the system can be set to			
	Cool	Dry	Heat	Fan
Cool mode	✓	✓		✓
Dry mode	✓	✓		✓
Heat mode			✓	✓
Fan mode				✓
Auto mode (Cooling operation)	✓	✓		✓
Auto mode (Heating operation)			✓	✓

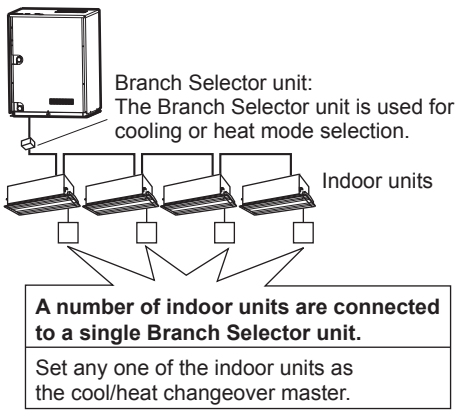
Precautions for Selecting the Cool / Heat Changeover Master Indoor Unit

- The cool/heat changeover master must be set for a single indoor unit in the following applications

(2-Pipe Heat Pump System)



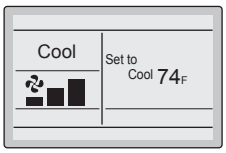
(3-Pipe Heat Recovery System)



Key Lock

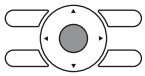
Operation Confirm and cancel Key Lock settings in the basic display screen.

1

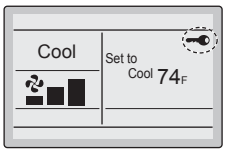


Basic screen

- Press the Menu/OK button for at least four seconds while the backlight is illuminated.



2



- "🔑" will display.
  All buttons are disabled when the keys are locked.
- To cancel the key lock mode, continue pressing Menu/OK button for at least four seconds while the backlight is illuminated.

Quick Reference

■The main menu has the following items.

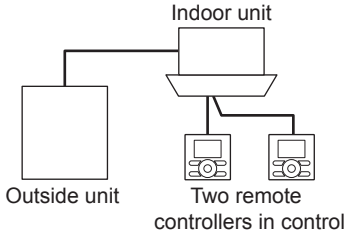
Menu item		Description	Reference page
Air Flow Direction		**Used to configure air flow direction settings.** ● The air flow direction louver is automatically operated up and down (left and right). ● The fixed air flow directions are configurable for five positions. * This function is not available on all models.	17
Ventilation (Ventilation operation settings for energy recovery ventilator)	**Ventilation Rate**	Used to set “Low” or “High”	18
	Ventilation Mode	Used to set Auto, ERV, or Bypass.	19
Schedule	**Daily Patterns**	● Day settings are selected from three patterns, i.e., “7Days”, “Weekday/Weekend”, and “Weekday/Sat/Sun”.	20
	Settings	● Set the startup time and operation stop time. ON: Startup time, cooling and heating temperature setpoints can be configured. OFF: Operation stop time, cooling and heating setback temperature setpoints can be configured. (−−: Indicates that the setback function is disabled for this time period.) __: Indicates that the temperature setpoint and setback temperature setpoint for this time period is not specified. The last active setpoint will be utilized. ● Up to five actions can be set for each day.	21
Off Timer		**Used to set each operation period of the system.** ● Possible to set in 10 minute increments from 30 to 180 minutes.	23
Celsius / Fahrenheit		● Used to select whether temperature values will be displayed in Celsius or Fahrenheit.	—
Maintenance Information		Used to display the maintenance information.	24
Configuration	**Contrast Adjustment**	Used to make LCD contrast adjustment.	25
	Display Standard or Detailed Display	**Used to set standard or detailed display mode.** ● Display mode Standard or detailed display ● Detailed display provides the choice to display between Room Temp, Outside Air Temp, System or None.	25
Current Settings		● Used to display a list of current settings for available items.	26
Clock & Calendar	**Date & time**	**Used to configure date and time settings and corrections.** ● The default time display is 12H. ● The clock will maintain accuracy to within ±30 seconds per month. ● If there is a power failure for a period not exceeding 48 hours, the clock will continue working with the built-in backup power supply.	27
	12H/24H Clock	The time can be displayed in either a 12 hour or 24 hour time format.	28
Daylight Saving Time		Used to adjust the clock in observance of daylight saving time.	—
Language		The display language can be selected between English, Francais, Espanol.	29

Note: Available setting items vary with the indoor unit model.

Sub Remote Controller Menu Items

If two remote controllers are in control of a single indoor unit, the following menu items are not set in the sub remote controller. In this case, the following items should be configured in the main remote controller.

- Schedule
- Off timer
- Setback



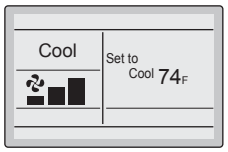
Menu Options

Moving Within the Main Menu Screen

■Display Method for Main Menu

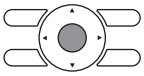
Operation

1

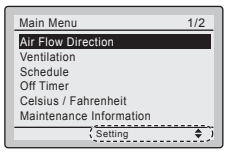


Basic screen

● Press Menu/OK button.



2



Main menu screen

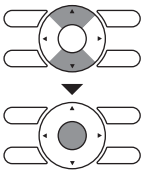
●The main menu screen is displayed.

⇦ Instructions for moving within the main menu will appear.

3

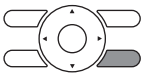
●Selecting items from the main menu.

1. Press ▼▲ buttons to select the desired item to be set.
2. Press Menu/OK button to display the details for the selected item.



4

●To go back to the basic screen from the main menu, press the Cancel button.



Note

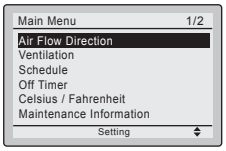
● If a button is not pressed for 5 minutes during configuration, the controller will automatically revert to the basic screen.

Air Flow Direction

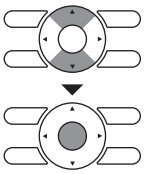
■Configuring Air Flow Direction

Operation

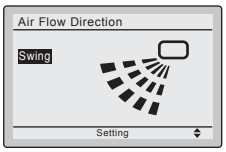
1



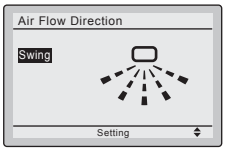
- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select Air Flow Direction on the main menu screen and press the Menu/OK button.
  (For models with no air flow direction adjustment, Air Flow Direction will not be displayed on the main menu screen.)



2



Air Flow Direction (up/down)



Air Flow Direction (left/right)

- The air flow direction screen will appear.

Note

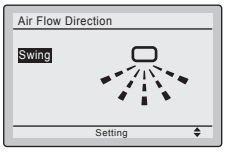
- Air flow direction appears on the screen as below.

Up/down direction

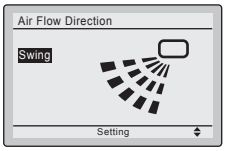
Left/right direction

0 : Position 0
1 : Position 1
2 : Position 2
3 : Position 3
4 : Position 4

3

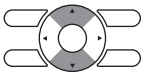


Left/right direction

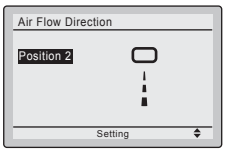


Up/down direction

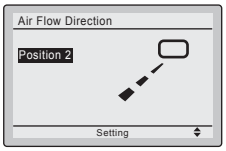
- Pressing ▼▲ buttons changes the setting to (in order) Swing, Position 0, Position 1, Position 2, Position 3, and Position 4.
- Selecting Swing will cause the air flow direction louver to oscillate back and forth.
  For the swing setting only, all positions will be displayed.



4



Left/right direction

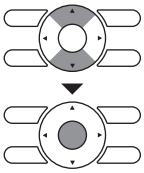


Up/down direction

- When you select positions 0 to 4, the louver will stay in a fixed position.

  * The illustration is an example of the display when position 2 is selected.

- Press ▼▲ buttons to select the desired air flow direction.
  Press Menu/OK button to return to the basic screen.



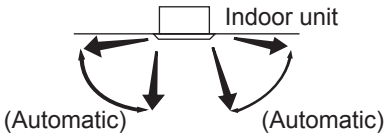
Menu Options

Operational Details and Functions

There are two types of air flow direction settings.

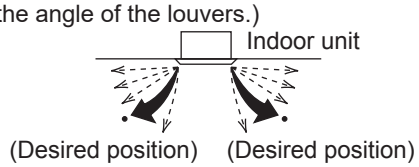
Air flow direction swing

The louvers automatically oscillate up and down.



Air flow direction

You can select from one of five fixed directions. (This has no relation to the angle of the louvers.)



Movement of air flow direction louver

Under the operating conditions shown below, air flow direction is controlled automatically. Actual operation may be different than what is displayed on the remote controller.

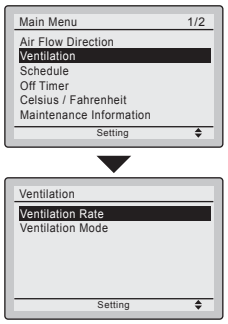
Operating condition	● Room temperature is higher than the remote controller's setpoint (in heating operation). ● Under continuous operation with the air flow discharging horizontally.

Ventilation

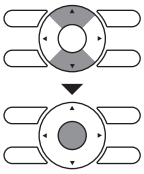
■Ventilation screen display properties

Operation

1



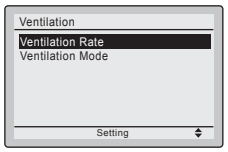
- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select Ventilation on the main menu screen.
  (For models with no ventilation function,
  Ventilation will not be displayed on the main menu screen.)
  Press Menu/OK button to display the ventilation screen.



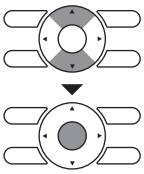
■Changing the ventilation rate

Operation

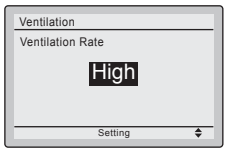
1



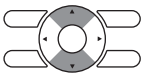
- Navigate to the ventilation screen (see above).
- Press ▼▲ buttons to select Ventilation Rate on the ventilation screen.
  Press Menu/OK button to display the ventilation rate screen.



2



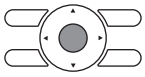
- Press the ▼▲ buttons to toggle between the Low and High settings.



* Only modes that can be set are displayed.

3

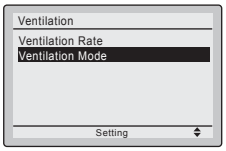
- Selecting and confirming the desired ventilation rate will take you back to the basic screen.
  (Pressing the Cancel button takes you back to the previous screen without changing the ventilation rate.)



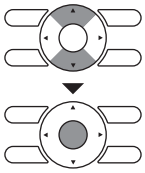
■Changing the ventilation mode

Operation

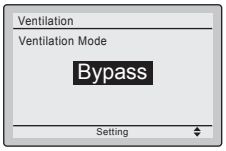
1



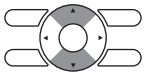
- Display the ventilation screen. (See page 18.)
- Press ▼▲ buttons to select Ventilation Mode on the ventilation screen.
  Press Menu/OK button to display the ventilation mode screen.



2



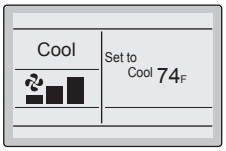
- Pressing the ▼▲ buttons cycles through the settings in the order shown below.



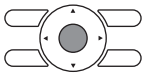
Bypass ◂▸ ERV ◂▸ Auto

* Only modes that can be set are displayed.

3



- Selecting and confirming the desired ventilation mode will take you back to the basic screen.
  (Pressing the Cancel button takes you back to the previous screen without changing the ventilation mode.)



Ventilation Mode

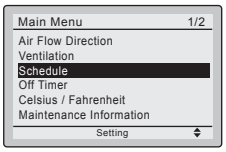
Auto mode	Using information from the air conditioner (cool, heat, fan, and setpoint) and the energy recovery ventilator unit (indoor and outdoor temperatures), the ventilation mode is automatically changed between ERV and Bypass.
ERV mode	Outside air is passed through the ERV core and is supplied to the conditioned space.
Bypass mode	Outside air is supplied to the conditioned space without passing through the ERV core.

Schedule

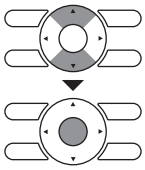
■Setting the schedule

Operation The schedule can not be enabled when a multizone controller is connected.

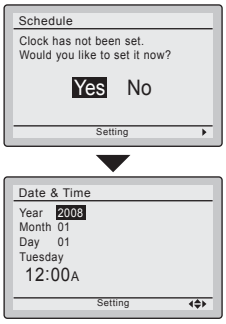
1



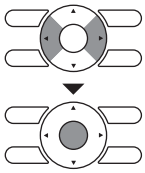
- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select Schedule .
  Press Menu/OK button to display the schedule screen.



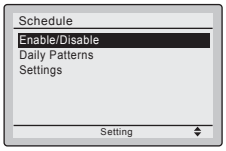
Menu Options



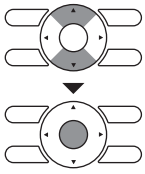
- Before setting the schedule , the clock must be set.
- If the clock has not been set, a screen like the one on the left will appear. Press ◀▶ buttons to select Yes and press Menu/OK button.
- The date & time screen will appear.
- Set the current year, month, day, and time. (See clock settings on page 27.)



2



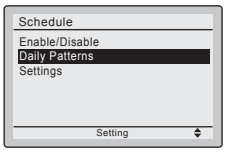
- Press ▼▲ buttons to select the desired function on the schedule screen and press Menu/OK button.



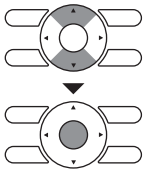
■Daily Patterns

Operation

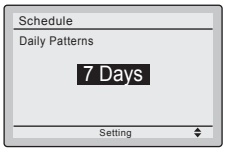
1



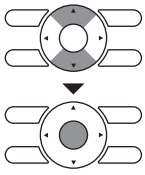
- The schedule screen will appear.
- Press ▼▲ buttons to select Daily Patterns on the schedule screen. The daily patterns screen will appear when the Menu/OK button is pressed.



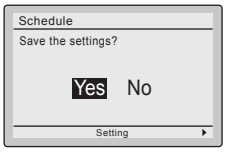
2



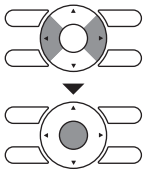
- Press ▼▲ buttons to select 7 Days, Weekday/Weekend, or Weekday/Sat/Sun on the daily patterns screen. The confirmation screen will appear when the Menu/OK button is pressed.



3



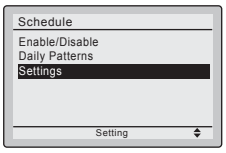
- Press ◀▶ buttons to select Yes on the confirmation screen. Pressing the Menu/OK button enters the daily patterns in the schedule and takes you back to the main menu screen.



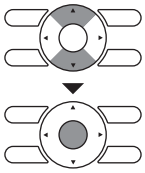
■Settings

Operation

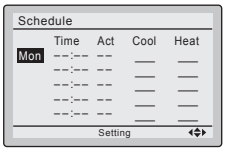
1



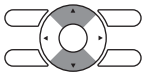
- The schedule screen will appear.
- Press ▼▲ buttons to select Settings on the schedule screen.
  The settings screen will appear when the Menu/OK button is pressed.



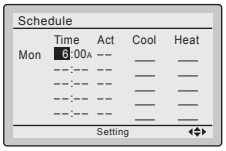
2

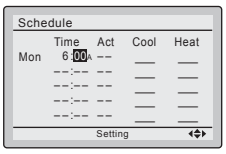


- Press ▼▲ buttons to select the day to be set.

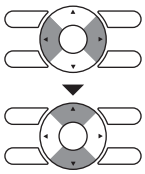


3

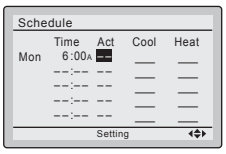


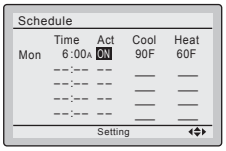


- Input the time for the selected day.
- Press ◀▶ buttons to move the highlighted item and press ▼▲ buttons to input the desired operation start time. Each press of ▼▲ buttons moves the numbers by 1 hour or 1 minute.



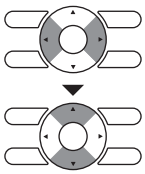
4

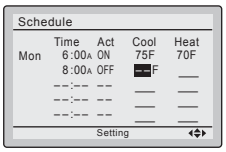




- Press the ◀▶ buttons to move the highlighted item and press ▼▲ buttons to configure ON/OFF/-- settings.
  --, ON, or OFF changes in sequence when ▼▲ buttons are pressed.

  ON: The temperature setpoints can be configured.
  OFF: The setback temperature setpoints can be configured.
  – –: The temperature setpoints and setback temperature setpoints become disabled.

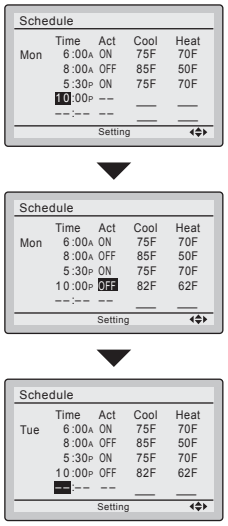




- The cooling and heating temperature setpoints for both ON and OFF (Setback) are configured.

  "__": Indicates that the temperature setpoint and setback temperature setpoint for this time period is not specified. The last active setpoint will be utilized.
  "––": Indicates that the setback function is disabled for this time period.

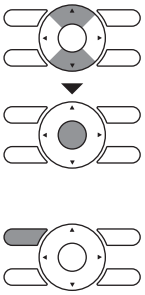
5



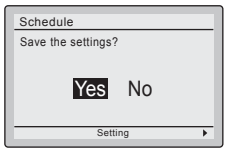
A maximum of five actions per day can be set.

- Press the Menu/OK button when settings for each day are completed. The confirmation screen will appear.

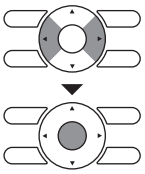
To copy the settings for the previous day, press the operation mode selector button so that the existing settings will be copied.
Example: The contents for Monday are copied by pressing the operation mode selector button after selecting Tuesday.



6



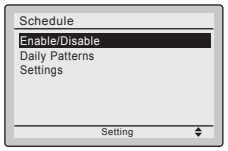
- Press ◀▶ buttons to select "Yes" on the confirmation screen. Pressing the Menu/OK button confirms the settings for each day and takes you back to the main menu screen.



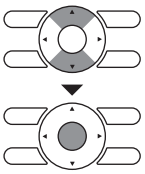
Enabling or disabling the schedule

Operation

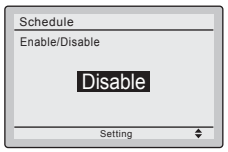
1



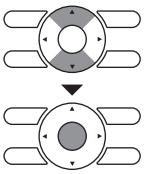
- Display the schedule screen. (See page 19.)
- Press ▼▲ buttons to select Enable / Disable on the schedule screen. Press Menu/OK button to display the enable/disable screen.



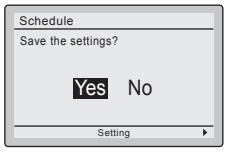
2



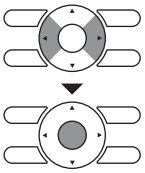
- Press ▼▲ buttons to select Enable or Disable on the enable/disable screen. Press Menu/OK button after selecting the item. The confirmation screen will appear.



3



- Press ◀▶ buttons to select Yes on the confirmation screen. Pressing Menu/OK button confirms the enable/disable setting for the schedule and takes you back to the basic screen.

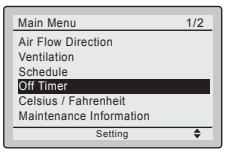


Off Timer

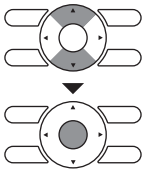
■Configuring and Confirming the Off Timer settings

Operation

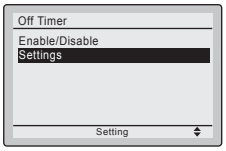
1



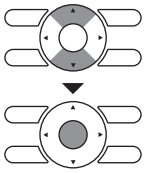
- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select the Off Timer on the main menu screen.
  Press Menu/OK button to display the off timer screen.



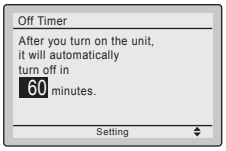
2



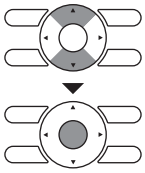
- Press ▼▲ buttons to select Settings on the off timer screen.
  Press Menu/OK button to display the configuration screen.



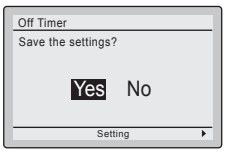
3



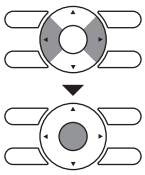
- Use ▼▲ buttons to set the time from operation start until the unit automatically stops.
  Selections can be made in increments of 10 minutes from 30 to 180 minutes.
  Holding down the button causes the number to change continuously.
- Select the desired time and press Menu/OK button.
  The confirmation screen will appear.



4



- Press ◀▶ button to select Yes on the confirmation screen.
  Pressing Menu/OK button confirms the off timer and takes you back to the basic screen.

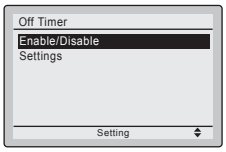


Menu Options

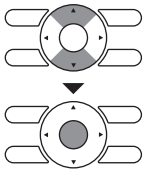
Enabling or disabling the off timer

Operation

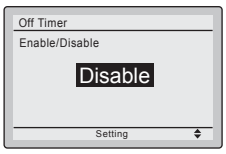
1



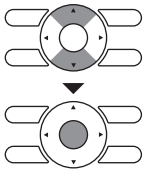
- Navigate to the off timer screen. (See page 23.)
- Press ▼▲ buttons to select Enable/Disable on the off timer screen.
  Press Menu/OK button to display the enable/disable screen.



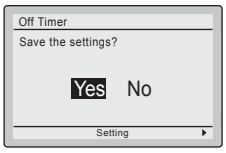
2



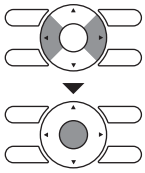
- Press ▼▲ buttons to select Enable or Disable on the enable/disable screen.
  Press Menu/OK button after selecting the item. Then the confirmation screen is displayed.



3



- Press ◀▶ button to select Yes on the confirmation screen.
  Pressing Menu/OK button confirms the enable/disable for the off timer and takes you back to the basic screen.

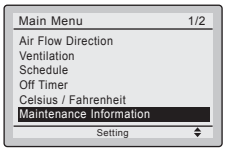


Maintenance Information

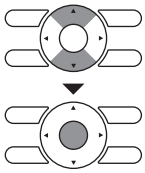
■Displaying the service contact and model information

Operation

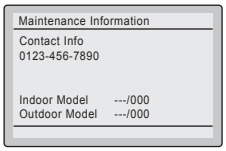
1



- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select Maintenance Information on the main menu screen and press Menu/OK button.



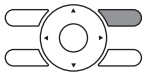
2



- The phone number for the contact is displayed at the top of the screen.
  (If it has not yet been entered, it will not be displayed.)
- The model information of the indoor and outside units for your product is displayed on the bottom of the screen.
  (For some models the product code may be displayed.)

* The model name will not appear if the indoor unit printed circuit board has been replaced.

* The error code history may also be displayed.
If the operation lamp is not blinking, the unit is working properly.
The error code history is no longer displayed if you press On/Off button for more than 4 seconds.

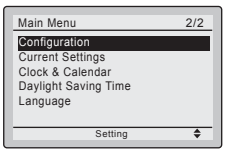


Configuration

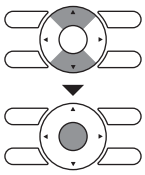
■Contrast Adjustment

Operation

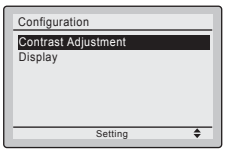
1



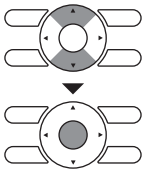
- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select Configuration on the main menu screen.
  Press Menu/OK button to display the configuration screen.



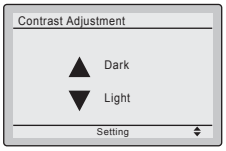
2



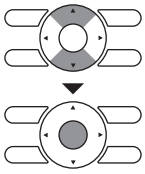
- Navigate to the configuration screen.
- Press ▼▲ buttons to select Contrast Adjustment on the configuration screen.
  Press Menu/OK button to display the contrast adjustment screen.



3



- On the contrast adjustment screen press ▼▲ buttons until you reach the desired contrast.
  After setting, press Menu/OK button and return to the basic screen.

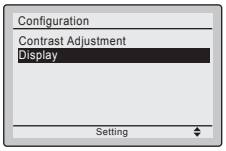


■Display

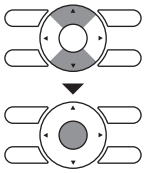
Display Mode

Operation

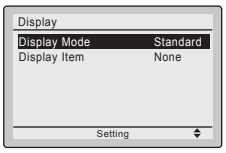
1



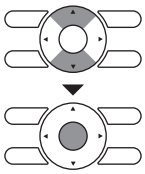
- Navigate to the configuration screen. (See page above.)
- Press ▼▲ buttons to select Display on the configuration screen.
  Press Menu/OK button to display the display screen.



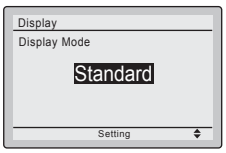
2



- Press ▼▲ buttons to select Display Mode on the display screen.
  Press Menu/OK button to display the Display Mode screen.

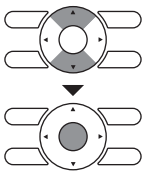


3



- Press ▼▲ buttons to select Standard or Detailed on the display screen.
- Press Menu/OK button to confirm the settings and return to the basic screen.

* Refer to **Display Item** to change detailed display selection.
(See page 26.)

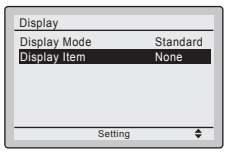


Menu Options

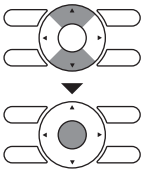
Display Item

Operation

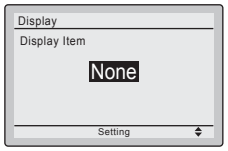
1



- Navigate to the display screen. (See page 25.)
- Press ▼▲ buttons to select **Display Item** on the display screen.
  Press Menu/OK button to display the display item screen.

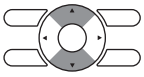


2



- Pressing ▼▲ buttons displays the following.

  None ◀▶ **Outside Air Temp**
  System ◀▶ **Room Temp**

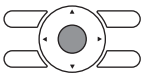


- Be sure to read the following notes regarding display of room temperature and outside air temperature.

  Room Temp
  ..... The temperature at the remote controller.
  The temperature that is detected may be affected by the location of the remote controller.

  Outside Air Temp
  ..... It is not displayed for this system.

- After setting, press Menu/OK button to confirm settings and return to the basic screen.

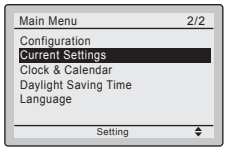


Current Settings

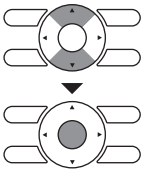
■Manipulating the current settings

Operation

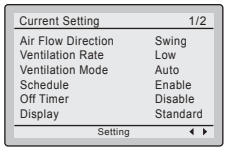
1



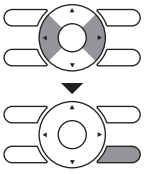
- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select **Current Settings** on the main menu screen and press Menu/OK button.



2



- A list showing the current setting status will appear.
  Press ◀▶ buttons to go to the next item.
- Pressing the Cancel button takes you back to the main menu screen.



Display items

Air Flow Direction	Off Timer
Ventilation Rate	Display
Ventilation Mode	Display item
Schedule	

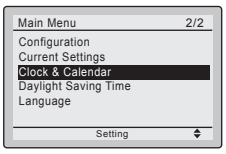
* Display items may differ depending on the model.
  Only the items that can be set are displayed.

Clock & Calendar

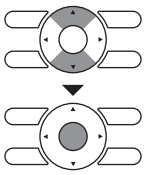
■Date & Time

Operation

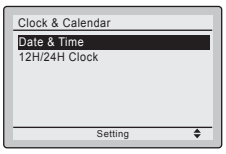
1



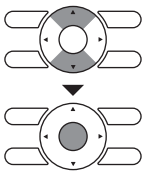
- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select Clock & Calendar on the main menu screen.
  Press Menu/OK button to display the clock & calendar screen.



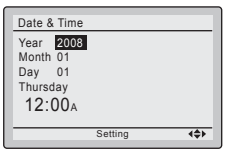
2



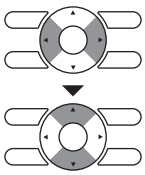
- Press ▼▲ buttons to select Date & Time on the clock & calendar screen.
  Press Menu/OK button to display the date & time screen.



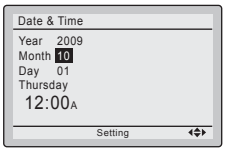
3



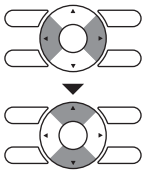
- Select “Year” with ◀▶ buttons.
  Change the year with ▼▲ buttons.
  Holding down the button causes the number to change continuously.



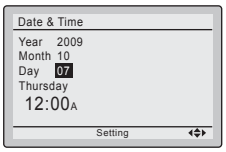
4



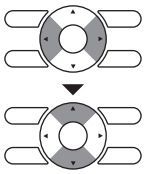
- Select “Month” with ◀▶ buttons.
  Change the month with ▼▲ buttons.
  Holding down the button causes the number to change continuously.



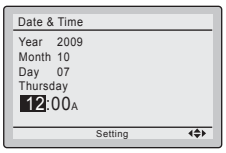
5



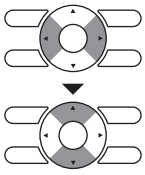
- Select “Day” with ◀▶ buttons.
  Change the day with ▼▲ buttons.
  Holding down the button causes the number to change continuously.
  Days of the week change automatically.



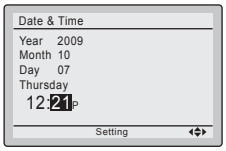
6



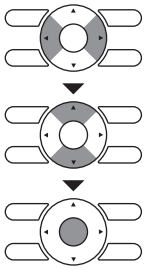
- Select “Hour” with ◀▶ buttons.
  Change the hour with ▼▲ buttons.
  Holding down the button causes the number to change continuously.



7



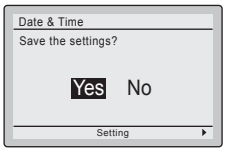
- Select “Minute” with ◀▶ buttons.
  Change the minute with ▼▲ buttons.
  Holding down the button causes the number to change continuously.
- Press Menu/OK button.
  The confirmation screen will appear.



Note:

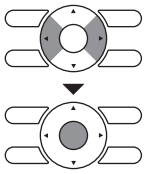
The date can be set between
January 1, 2009 and December 31, 2099.

8



- Press ◀▶ button to select Yes on the confirmation screen.
  Press Menu/OK button to confirm the clock and return to the basic screen.

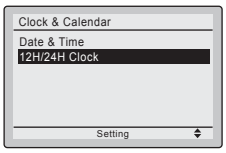
  * When setting the schedule, the display returns to the settings screen.



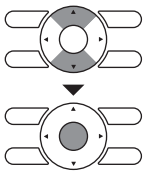
■12H/24H CLOCK

Operation

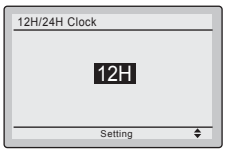
1



- Display the clock & calendar screen. (See page 27.)
- Press ▼▲ buttons to select 12H/24H Clock on the Clock & Calendar screen.
  The 12H/24H clock screen will appear when the Menu/OK button is pressed.

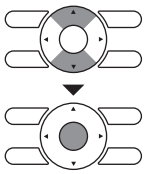


2

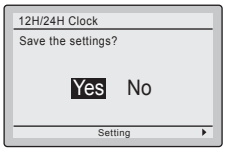


By default, the time display is set to the 12H format.

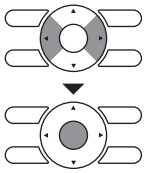
- Press ▼▲ buttons to select 12H 24H on the 12H/24H clock screen.
- The confirmation screen will appear when the Menu/OK button is pressed.



3



- Press ◀▶ buttons to select Yes on the confirmation screen.
  Pressing the Menu/OK button confirms the 12H or 24H and takes you back to the main menu screen.

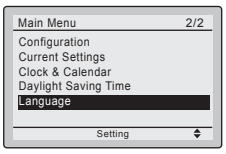


Language

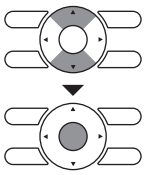
■Selectable Languages

Operation

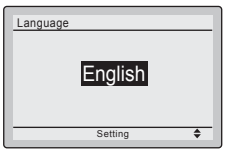
1



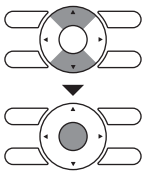
- Display the main menu screen. (See page 16.)
- Press ▼▲ buttons to select Language on the main menu screen and press the Menu/OK button.



2



- Press ▼▲ buttons to select the preferred language on the language screen.
  English/Français/Español are available.
- Press Menu/OK button to confirm the settings and return to the basic screen.

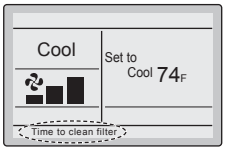


Maintenance

Reset Filter Indicator

Operation

1

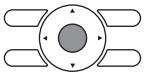


- When it is time to clean or replace the filter, one of the following messages will be displayed on the bottom of the basic screen.
  "Time to clean filter"
  "Time to clean filter & element"
  "Time to clean element"

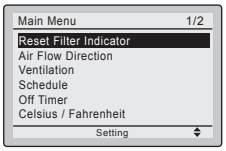
- Wash, clean, or replace the filter or element.
  For details, refer to the operation manual supplied with the indoor unit.

2

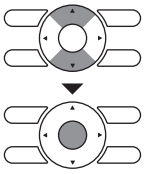
- Reset the filter indicator when the filter or element is cleaned or replaced.
- Press Menu/OK button.
  The main menu screen will be displayed.

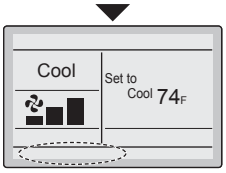


3



- Press ▼▲ buttons to select Reset Filter Indicator on the main menu screen and press Menu/Enter button.





- The display shown in illustration 1 is no longer displayed from the basic screen when the filter sign is reset.

Maintenance

Maintaining the Unit and LCD Display

- Wipe the LCD and surface of the remote controller with a dry cloth when they become dirty.
- If the dirt on the surface cannot be removed, soak the cloth in neutral detergent diluted with water, squeeze the cloth tightly, and clean the surface. Wipe the surface with a dry cloth.

Note

- Do not use any paint thinner, organic solvent, or strong acid.

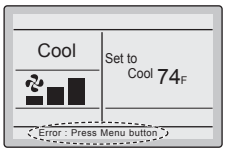
Reference Information

Error Code Display

■Contact your Daikin dealer in the following cases

Operation

1

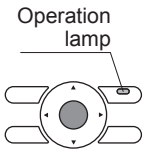


- If an error occurs, either one of the following items will flash in the basic screen.

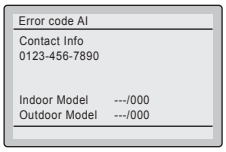
  "Error: Press Menu button"
  * The operation lamp will flash.

  "Warning: Press Menu button"
  * The operation lamp will not flash.

- Press Menu/OK button.



2



- The error code will flash and the service contact and model name or code may be displayed.
- Notify your Daikin dealer of the Error code and model name or code.

Precautions for Group Control System or Two Remote Controller Control System

This system provides two other control systems beside individual control (one remote controller controls one indoor unit) system. Confirm which type of your unit is the following system.

- **Group control system**
  One remote controller controls up to 16 indoor units. All indoor units are equally set.
- **Two remote controller control system**
  Two remote controllers control one indoor unit (in case of group control system, one group of indoor units). The unit is individually operated.

Note

- Contact your Daikin dealer in case of changing the combination or setting of group control and two remote controller control systems.

Optimum Operation

Observe the following precautions to ensure the system operates properly.

- Prevent direct sunlight from entering a room during cooling operation by using curtains or blinds.
- Do not leave doors and windows open. If the doors and windows remain open, air will flow out of your room causing a decrease in the cooling or heating effect.
- Do not use other heating devices directly beneath the indoor unit.
  If you do, they might get deformed by the heat.
- Never place objects near the air inlet or the air outlet of the unit. It may cause deterioration in the performance or stop the operation.
- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling.
- Ventilate often.
  Extended use requires special attention to ventilation.
- Keep the indoor unit and remote controller at least
  3.5ft. away from televisions, radios, stereos, and other similar equipment.
  Failing to do so may cause static or distorted pictures.
- Make full use of the air flow direction adjustment function.
  Cold air gathers on the floor, and warm air gathers in the ceiling.
  Set the air flow direction parallel during cooling or dry operation, and set it downwards during heating operation.
  Do not let the air blow directly on a person.
- It takes time for the room temperature to reach the set temperature.
  Start the operation in advance using schedule operation.

Seasonal Maintenance

⚠ Caution

- **Do not touch the air inlets or aluminum fins of the outside or indoor units.**
  Touching them may result in injury.
- **Do not wash the outside or indoor units with water.**
  An electric shock or fire may result.
- **Watch your step at the time of air filter cleaning or other maintenance.**
  If the scaffold is unstable, you may fall or topple down, thus causing injury.
- **Be sure to stop the operation, and turn the breaker off before cleaning.**
  This may cause electric shock and injury.
- **Consult with the dealer for cleaning the interior of the indoor units.**
  Incorrect cleaning may damage the plastic parts and cause failures, such as water leakage, and an electric shock may result.

■At the beginning of the season

Check
- Are the indoor and outside unit intake and outlet vents blocked?
  Remove anything that might be blocking them.

Clean the exterior.
- See the operation manual included with the indoor unit for details on how to clean it.

Turn the power on.
- When the power comes on, the characters in the remote controller display are displayed.
  (To protect the unit, turn the power on at least 6 hours before operating it. This makes operation smoother.)

■At the end of the season

On a clear day, use fan operation for around half a day to thoroughly dry out the interior of the unit.
- Refer to chapter “Operation Procedure” for details on fan operation.

Turn off the power.
- When the power is shut off, the characters in the remote controller display are no longer displayed.
- When the power is on, the unit consumes up to several dozen Watts of power.
  Turn off the power to conserve energy.

Clean the exterior.
- See the operation manual included with the indoor unit for details on how to clean it.

Following Symptoms are not Air Conditioner Troubles

■The system does not operate

- **The air conditioner does not start immediately when restarting or changing the operation mode.**
  If the operation lamp lights, the system is in normal condition.
  To prevent overloading of the compressor motor, the air conditioner starts 5 minutes after it is turned ON again in case it was turned OFF just before.
- **If “ CENTRAL CONTROL ” is displayed on the remote controller and pressing the operation button causes the display to blink for a few seconds.**
  This indicates that the central device is controlling the unit.
  The blinking display indicates that the remote control cannot be used.
- **The system does not start immediately after the power supply is turned on.**
  Wait 1 minute until the micro computer is prepared for operation.

■It stops sometimes

- **The remote controller display reads “U4” or “U5” and stops but then restarts after a few minutes.**
  This is because the remote control is intercepting noise from electrical appliances other than the air conditioner, and this prevents communication between the units, causing them to stop.
  Operation automatically restarts when the noise goes away.

■Cool/heat cannot be changed over

- **When the display shows “ MASTER CONTROLLED ”.**
  It shows that this is a slave remote controller.
  Refer to “Setting the Cool/Heat Change over Master”.
- **When the cool/heat selector switch is installed and the display shows “ MASTER CONTROLLED ”.**
  This is because cool/heat changeover is controlled by the cool/heat selector. Ask your Daikin dealer where the remote control switch is installed.

■Fan operation is possible, but cooling and heating do not work

- **Immediately after the power is turned on.**
  The micro computer is getting ready to operate. Wait 10 minutes.

■The fan speed does not correspond to the setting

- **The fan speed does not change even if the fan speed control button is pressed.**
  During heating operation, when the room temperature reaches the set temperature, the outside unit goes off and the indoor unit adjusts to a low fan speed.
  This is to prevent cold air from blowing directly on occupants of the room.
  The fan speed will not change even if the button is pressed, when another indoor unit is in heating operation.

■The fan direction does not correspond to the setting

- **The fan direction does not correspond to the remote control display.**
  The fan direction does not swing.
  This is because the unit is being controlled by the micro computer. Refer to “Adjusting the air flow direction”.

■White mist comes out of the unit

Indoor unit

- **When humidity is high during cooling operation.**
  If the interior of indoor unit is extremely contaminated, the temperature distribution inside a room becomes uneven. It is necessary to clean the interior of the indoor unit. Ask your Daikin dealer for details on cleaning the unit. This operation requires a qualified service person.
- **Immediately after the cooling operation stops and if the room temperature and humidity are low.**
  This is because warm refrigerant gas flows back into the indoor unit and generates steam.

■Noise of air conditioners

Indoor unit

- **An electric starting sound is heard immediately after the power supply is turned on.**
  The electronic expansion valve inside an indoor unit starts working and makes the noise. Its volume will reduce in about 1 minute.
- **A continuous low sigh sound is heard when the system is in cooling operation or at a stop.**
  When the drain pump (an optional accessory) is in operation, this noise is heard.
- **A squeaking sound is heard when the system stops after heating operation.**
  Expansion and contraction of plastic parts caused by temperature change make this noise.
- **A low sighing sound is heard while the indoor unit is stopped.**
  When the other indoor unit is in operation, this noise is heard. In order to prevent oil and refrigerant from remaining in the system, a small amount of refrigerant is kept flowing.

Outside unit

- **When the tone of operating noise changes.**
  This noise is caused by the change of frequency.

Indoor unit, outside unit

- **A continuous low hissing sound is heard when the system is in cooling.**
  This is the sound of refrigerant gas flowing through both indoor and outside units.
- **A hissing sound which is heard at the start or immediately after stopping operation.**
  This is the noise of refrigerant caused by flow stop or flow change.

■Dust comes out of the unit

- **When the unit is used after stopping for a long time.**
  This is because dust has gotten into the unit.

■The units can give off odors

- **During operation.**
  The unit might absorb the smell of rooms, furniture, cigarettes, etc., and then emit it again.

■The compressor in the outside unit does not stop

- **This is to prevent oil and refrigerant from remaining in the compressor. The unit will stop after 5 to 10 minutes.**

■The inside of outside unit is warm even when the unit has stopped

- **This is because the crankcase heater is warming the compressor so that the compressor can start smoothly.**

■Hot air is emitted even though the unit is stopped

- **Hot air can be felt when the unit is stopped.**
  Several different indoor units are being run on the same system, so if another unit is running, some refrigerant will still flow through the unit.

Following Symptoms are not Air Conditioner Troubles

■Does not cool very well

- **Dry operation.**
  Dry operation is designed to lower the room temperature as little as possible.
  Refer to page 10.

Trouble Shooting

If one of the following malfunctions occur, take the measures shown below and contact your Daikin dealer.

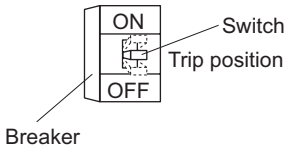
⚠ Warning

- **Stop operation and shut off the power if anything unusual occurs, such as a burning smell.**
  Leaving the unit running under such circumstances may cause breakage, electrical shock, or fire.
  Contact your dealer.

- If a safety device such as a fuse or a breaker frequently actuates;
  Measure : Do not turn on the main power switch.
- If the ON/OFF switch does not properly work;
  Measure : Turn off the main power switch.
- If water leaks from unit;
  Measure : Stop the operation.
- The operation mode selector button does not work well.
  Turn off the power.

If the system does not properly operate except for the above mentioned cases and none of the above mentioned malfunctions is evident, investigate the system according to the following procedures.
If it is impossible to fix the problem after checking all the above items, contact your dealer.
Let him know the symptoms, system name, and model name.

1. If the system does not operate at all;
   - Check if there is a power failure.
     Wait until power is restored. If power failure occurs during operation, the system automatically restarts immediately after the power supply is recovered.
   - Check if a fuse has blown;
     Turn off the power supply.
   - Check if the breaker is blown.
     Turn the power on with the breaker switch in the off position.
     Do not turn the power on with the breaker switch in the trip position.
     (Contact your dealer.)
2. If the system stops soon after starting the operation;
   - Check if air inlet or outlet of outside or indoor unit is blocked by obstacles.
     Remove any obstacle and make it well-ventilated.
   - Check if the remote controller display shows “Time to clean filter & element”;
     Refer to the operation manual of the indoor unit and clean the air filter or element.



3. The system operates but cooling or heating is insufficient;
   - Check if air inlet or outlet of outside or indoor unit is not blocked by obstacles.
     Remove any obstacle and make it well-ventilated.
   - Check if the remote controller display shows “Time to clean filter & element”;
     Refer to the operation manual of the indoor unit and clean the air filter or element when indicated.
   - Check the temperature setting.
     Refer to “Operation procedure”.

- Check the fan speed setting on your remote controller.
  Refer to “Operation procedure”.
- Check for open doors or windows.
  Shut doors and windows to prevent wind from coming in.
- Check if there are too many occupants in the room during cooling operation.
- Check if the heat source of the room is excessive during cooling operation.
- Check if direct sunlight enters the room during cooling operation.
  Use curtains or blinds.
- Check if the air flow angle is proper.
  Refer to “Operation procedure”.
- Check if the entering water temperature of the outside unit is within the operation range.
  Do not exceed the operation range.
- Check if the water flow rate of the outside unit water is within the operation range.
  Do not exceed the operation range.

Water Quality

In order to prevent water piping from corrosion and scale, use heat source water that meets the water quality standards below.

Water quality standards for chilled water, hot water and makeup water (4) (6)

Item (5)	Cooling water system (3) Circulation system		Hot water system (2)		Tendency (1)	
	Circulation water	Makeup water	Circulation water (68 to 140°F(20 to 60°C))	Makeup water	Corrosion	Scale
Standard items						
pH (77°F(25°C))	6.5 to 8.2	6.0 to 8.0	7.0 to 8.0	7.0 to 8.0	○	○
Electrical Conductivity (mS/ft(mS/m))(77°F(25°C))	Less than 24.4(80)	Less than 9.1(30)	Less than 9.1(30)	Less than 9.1(30)	○	○
Chloride ions ($mgcl^{-}$/L)	Less than 200	Less than 50	Less than 50	Less than 50	○	
Sulfate ions ($mgSO_4^{2-}$ /L)	Less than 200	Less than 50	Less than 50	Less than 50	○	
Acid consumption (pH4.8) ($mgCaCO_3$/L)	Less than 100	Less than 50	Less than 50	Less than 50		○
Total hardness ($mgCaCO_3$/L)	Less than 200	Less than 70	Less than 70	Less than 70		○
Calcium hardness ($mgCaCO_3$/L)	Less than 150	Less than 50	Less than 50	Less than 50		○
Ionic-state silica ($mgSiO_2$/L)	Less than 50	Less than 30	Less than 30	Less than 30		○
Reference items						
Iron (mgFe/L)	Less than 1.0	Less than 0.3	Less than 1.0	Less than 0.3	○	○
Copper (mgCu/L)	Less than 0.3	Less than 0.1	Less than 1.0	Less than 0.1	○	
Sulfate ion (mgS^{2-} /L)	Shall not be detected	Shall not be detected	Shall not be detected	Shall not be detected	○	
Ammonium ion ($mgNH_4^{+}$/L)	Less than 1.0	Less than 0.1	Less than 0.3	Less than 0.1	○	
Residual chlorine (mgCl/L)	Less than 0.3	Less than 0.3	Less than 0.25	Less than 0.3	○	
Free carbon dioxide ($mgCO_2$/L)	Less than 4.0	Less than 4.0	Less than 0.4	Less than 4.0	○	
Stability index	6.0 to 7.0	—	—	—	○	○

Water Quality

[NOTES]
(1) The circle marks in the columns for corrosion or scale to develop.
(2) Corrosion has a tendency to occur when water temperature is high (104°F(40°C) or higher), and if metals with no protective coating whatever are directly exposed to water, it is advisable to take effective measures against corrosion such as adding a corrosion inhibitor or deaeration treatment.
(3) In a condenser water circuit that uses a closed cooling tower, the closed circuit circulating water and makeup water must satisfy its water quality standards for the hot water system, and passing water and makeup water must satisfy those for the circulation type cooling water system.
(4) Supply or makeup water should be tap water (clean water), industrial water, and underground water except for purified water, neutral water and softened water or the like.
(5) The fifteen items in the table above represent typical causes of corrosion and scale.
(6) Passing water may cause corrosion.
Do not use passing water.

After-Sales Service and Warranty

After-sale Service

⚠ Danger

- **Refrigerant gas may produce a toxic gas if it comes in contact with fire such as from a fan, heater, stove, or cooking device. Exposure to this gas could cause severe injury, or death.**

⚠ Warning

- **Do not disassemble, modify or repair the unit.**
  This may cause water leakage, electric shock, or fire.
  Contact your dealer.
- **Do not remove or reinstall the unit by yourself.**
  Incorrect installation may cause water leakage, electrical shock, or fire.
  Contact your dealer.

- **When asking your dealer to repair, inform related staff of the details as follows:**
  - Model name and product No. of air conditioner
  - Shipping date and installation date
  - Malfunction:
    Inform the staff of the defective details. (Malfunction code being displayed on the remote controller.)
  - Name, address, telephone number
- **Repair after the warranty term is expired**
  Contact your dealer.
- **Minimum storage period of important parts**
  Even after a certain type of air conditioner is discontinued, we have the related important parts in stock for 9 years at least.
  The important parts indicate parts essential to operate the air conditioner.
- **Recommendations for maintenance and inspection**
  Since dust collects after using the unit for several years, the performance will be deteriorated to some extent.
  Disassembling and cleaning inside require technical expertise, so we recommend entering a maintenance and inspection contract (at a cost) separate from normal maintenance.

● **Recommended inspection and maintenance cycles**
[Note: The maintenance cycle is not the same as the warranty period.]
Table 1 assumes the following usage conditions.

1. Normal use without frequent starting and stopping of the machine.
   (Although it varies with the model, we recommend not starting and stopping the machine more than 6 times/hour for normal use.)
2. Operation of the product is assumed to be 10 hours/day, 2500 hours/year.

● Table 1 “Inspection Cycle” and “Maintenance Cycle” Lists

Name of Main Part	Inspection Cycle	Maintenance Cycle [replacements and/or repairs]
Compressor	1 year	20,000 hours
Electric motor (fan, damper, etc.)		20,000 hours
Printed circuit boards		25,000 hours
Heat exchanger		5 years
Sensor (thermistor, etc.)		5 years
Remote controller and switches		25,000 hours
Drain pan		8 years
Expansion valve		20,000 hours
Electromagnetic valve		20,000 hours
FAN		Indoor : 13 years

Note 1
This table indicates main parts.
See the maintenance and inspection contract for details.

Note 2
This maintenance cycle indicates recommended lengths of time until the need arises for maintenance work, in order to ensure the product is operational as long as possible.
Use for appropriate maintenance design (budgeting maintenance and inspection fees, etc.).
Depending on the content of the maintenance and inspection contract, the inspection and maintenance cycles may in reality be shorter than those listed here.

Shortening of “maintenance cycle” and “replacement cycle” needs to be considered in the following cases.

1. When used in hot, humid locations or locations where temperature and humidity fluctuate greatly.
2. When used in locations where power fluctuation (voltage, frequency, wave distortion, etc.) is high.
   (Cannot be used if it is outside the allowable range.)
3. When installed and used in locations where bumps and vibrations are frequent.
4. When used in bad locations where dust, salt, harmful gas or oil mist such as sulfurous acid and hydrogen sulfide may be present in the air.
5. When used in locations where the machine is started and stopped frequently or operation time is long. (Example: 24 hour air-conditioning)

After-Sales Service and Warranty

■Recommended replacement cycle of wear-out parts [The cycle is not the same as the warranty period.]

● Table 2 “Replacement Cycle” Lists

Name of Main Part	Inspection Cycle	Replacement Cycle
Air filter	1 year	5 years
High efficiency filter (Optional accessory)		1 year
Fuse		10 years
Crankcase heater		8 years

Note 1
This table indicates main parts.
See the maintenance and inspection contract for details.

Note 2
This maintenance cycle indicates recommended lengths of time until the need arises for maintenance work, in order to ensure the product is operational as long as possible.
Use for appropriate maintenance design (budgeting maintenance and inspection fees, etc.).
Contact your dealer for details.
Note: Breakage due to taking apart or cleaning inside by anyone other than our authorized dealers may not be included in the warranty.

■Moving and discarding the unit

- Contact your dealer for removing and reinstalling the unit when moving house since they require technical expertise.
- This unit uses chlorofluorocarbon.
  Contact your dealer for discarding this unit since it is required by law to collect, transport and discard the refrigerant in accordance with “chlorofluorocarbon collection and destruction” law.

■Where to call

For after-sales service, etc., consult with your dealer.

DAIKIN MANUFACTURING COMPANY, L.P.
5151 San Felipe St., Suite 500, Houston, TX 77056
www.daikincomfort.com

4P540121-1 0000000B

4P540121-1 2018.07