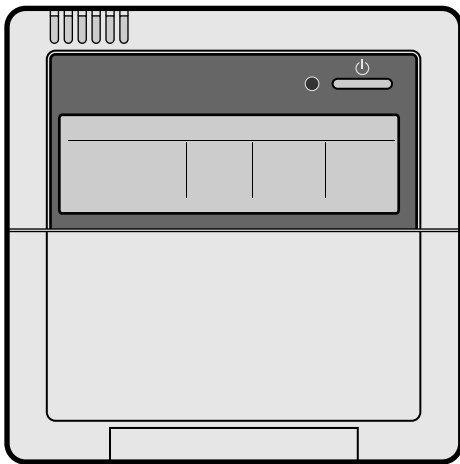




OPERATION MANUAL

VRV III System air conditioner



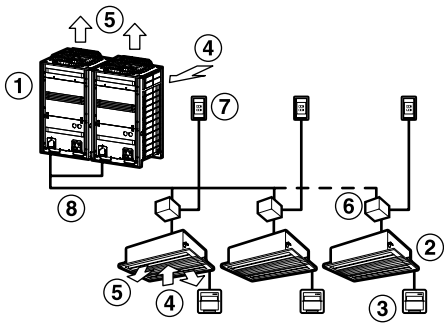
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- REYQ10PY1
- REYQ12PY1
- REYQ14PY1
- REYQ16PY1
- REYQ18PY1
- REYQ20PY1
- REYQ22PY1
- REYQ24PY1
- REYQ26PY1
- REYQ28PY1
- REYQ30PY1
- REYQ32PY1
- REYQ34PY1
- REYQ36PY1
- REYQ38PY1
- REYQ40PY1
- REYQ42PY1
- REYQ44PY1
- REYQ46PY1
- REYQ48PY1

Thank you for purchasing this Daikin air conditioner. Carefully read this operation manual before using the air conditioner. It will tell you how to use the unit properly and help you if any trouble occurs. After reading the manual, keep it in your custody for future reference.

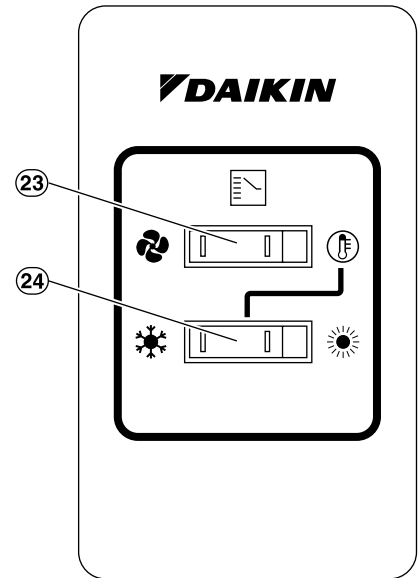
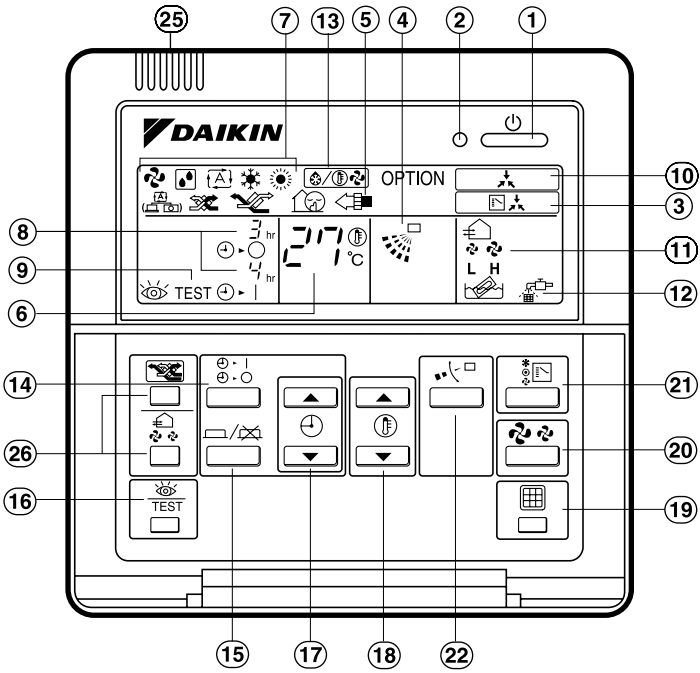
See also the operation manual included with the indoor unit for details on the indoor unit.

Store the operation manual included with the indoor unit together with this operation manual in a safe place.

After receiving the warranty card from the dealer, store it in a safe place.

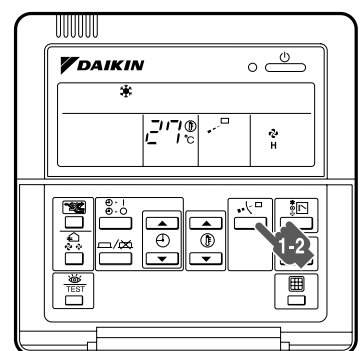
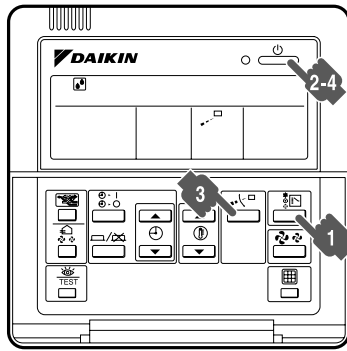
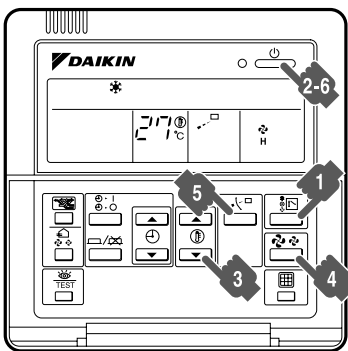


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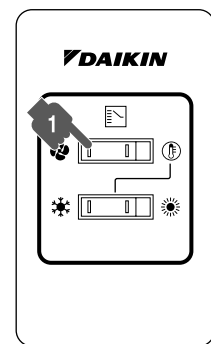
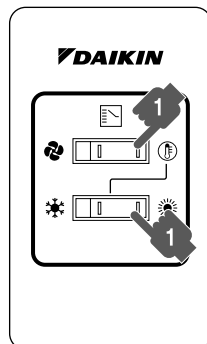
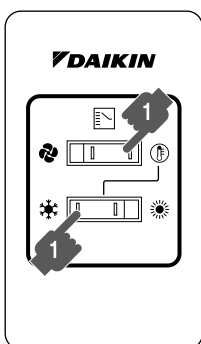
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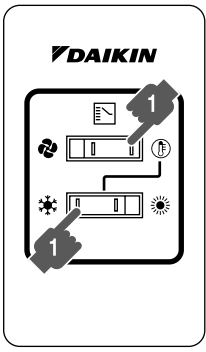
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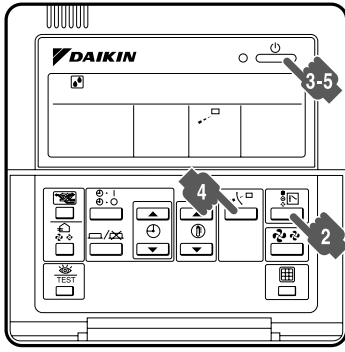
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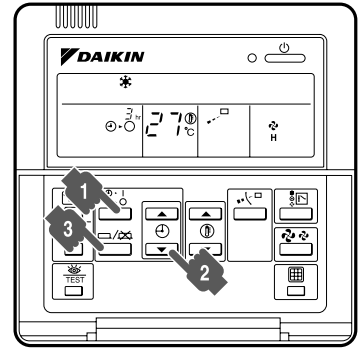
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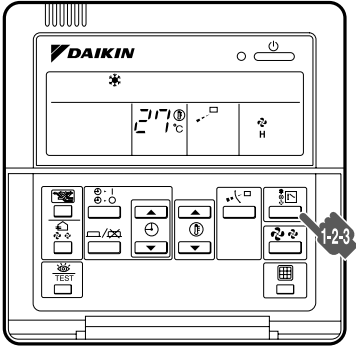
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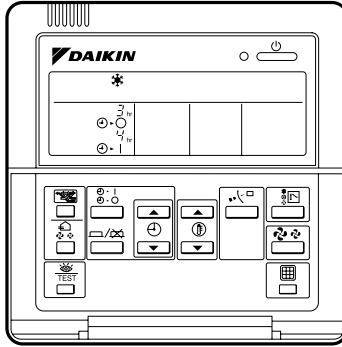
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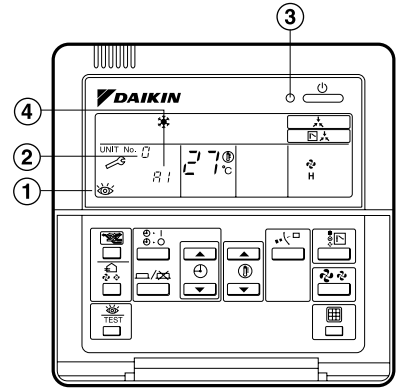
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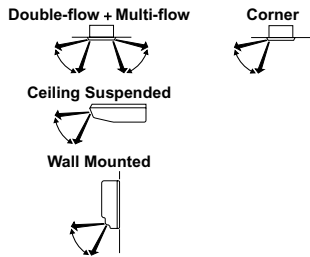
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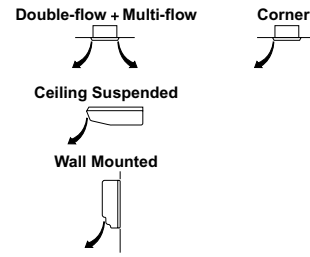
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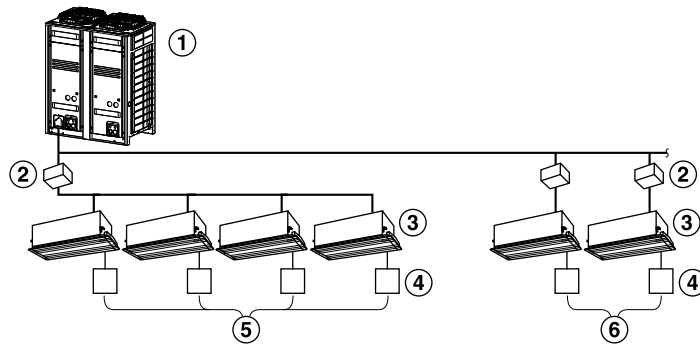
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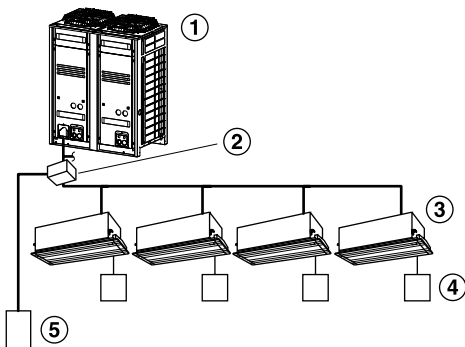
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1. SAFETY CAUTIONS

Read the following cautions carefully and use your equipment properly.

There are two kinds of safety cautions and tips listed here as follows:

⚠ WARNING Improper handling can lead to such serious consequences as death or severe injury.

⚠ CAUTION Improper handling can lead to injury or damage. It could also have serious consequences under certain conditions.

NOTE

Keep this operation manual handy so that you can refer to them if needed.

Also, if this equipment is transferred to a new user, make sure to hand over this operation manual to the new user.

— **⚠ WARNING for operation** —

- **Do not expose yourself directly to the cool air currents too long nor allow the air in the room to become too cold.**
Doing so may make you feel sick or damage your health.
- **Do not put your fingers, rods, or other objects into the air inlet or outlet while the fan is in operation.**
Injury may result because the fan is rotating at high speed.

- **Flammable if refrigerant leaks.**

The refrigerant used in the air conditioner is safe and should not normally leak, but if it does leak into a room, it will emit a noxious gas if it comes in contact with any kind of heater, stove, or other similar objects.

Turn off any combustible heating devices, ventilate the room, and contact the dealer where you purchased the unit.

When repairing a refrigerant leak, have a service engineer check that the repair has been performed properly before running the unit again.

- **Use only fuses of the correct capacity if a fuse load switch is being used.**

Using wires may cause breakdown and fire.

- **Do not disassemble, modify, or repair.**

This may cause water leakage, electric shock, or fire. Only your dealer should attempt such procedures.

- **If anything unusual occurs (e.g., a burning smell), stop the operation of the air conditioner and shut off the power.**

Leaving the unit running under such circumstances may cause breakage, electrical shock, or fire.

Contact your dealer.

- **Consult the dealer if the air conditioner submerges owing to a natural disaster, such as a flood or typhoon.**

Do not operate the air conditioner in that case, or otherwise a malfunction, electric shock, or fire may result.

- **Do not operate the air conditioner when using a room fumigation - type insecticide.**

Failure to observe could cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.

— **⚠ CAUTION for operation** —

- **Do not use the air conditioner for purposes other than air conditioning.**
Do not use the air conditioner to keep food, animals, plants, precision instruments, or works of art cool.
Otherwise, their quality deterioration will result.
- **Do not remove the fan guard of the outdoor unit.**
The exposed fan may cause injury.
- **Do not place items under the indoor unit which may be damaged by water.**
Drips may fall in the following cases: 80% or higher in humidity, clogged drain outlet, or foul air filter.

- **Do not locate combustion appliances in places exposed to the air that blows from the air conditioner.**
The airflow may cause incomplete combustion of the combustion appliances.
- **Do not mount on the outdoor unit or place any object on it.**
Falling, tumbling, and injury may result.
- **Do not place flammable sprays near or actually spray them on the unit.**
Ignition may result.
- **Do not allow the fan to blow directly on plants or animals.**
This may have an unwanted effect on the plants or animals.
- **Do not touch the air inlets or aluminum fins of the outdoor or indoor units.**
Touching them may result in injury.
- **Do not disassemble the remote controller.**
An electric shock or a failure in the remote controller may result if you touch the interior of the remote controller. Contact your dealer for the internal inspection of the remote controller.
- **Do not start or stop operating the air conditioner with the power supply breaker turned ON or OFF.**
Otherwise, fire or water leakage may result. Furthermore, the fan will rotate abruptly if power failure compensation is enabled, which may result in injury.
- **Do not operate the air conditioner with wet hands.**
This may cause electric shock.
- **Never press the button of the remote controller with a hard, pointed object.**
The remote controller may be damaged.
- **Do not locate containers holding water (e.g., flower vases) on the indoor unit of floor mounting type.**
The water may enter the unit and an electric shock or fire may result.
- **Do not wash the outdoor or indoor units with water.**
An electric shock or fire may result.
- **Ventilate the room sufficiently from time to time if combustion appliances are used in the same room.**
If the room is not ventilated sufficiently, oxygen deficiency may result.
- **After a long use, check the unit stand and fitting for damage.**
If they are left in a damaged condition, the unit may fall and topple down and result in 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.
- **Do not locate objects around the outdoor unit and do not let leaves and other debris accumulate around the unit.**
Leaves are a hotbed for small animals that can enter the unit, and cause the outdoor unit to malfunction, generate smoke, or result in fire if they come in contact with electrical parts.
- **Watch your steps at the time of air filter cleaning etc.**
If the scaffold is unstable, you may fall or topple down, thus causing injury.
- **Do not wipe the controller operation panel with benzine, thinner, chemical dustcloth, etc.**
The panel may get discolored or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. And wipe it with another dry cloth.
- **The appliance is not intended for use by young children or infirm persons without supervision.**
- **Young children should be supervised to ensure that they do not play with the appliance.**

—  **WARNING for installation** —

- **Unauthorized people must not install the air conditioner.**
Incorrect installation performed by yourself may cause leaking, electric shock, or fires. Contact your dealer.
- **Unauthorized people must not install products approved.**
Please use products approved by us for separately purchased accessory items. If you install a product yourself and a problem occurs, electrocution or fire may occur. Contact your dealer.
- **Unauthorized people must not move or reinstall the air conditioner.**
Incomplete installation may result in water leakage, electric shocks, or fire. Contact your dealer.
- **Prepare an earth ground.**
Do not let the ground wire should come in contact with gas pipes, water pipes, lighting rods, or telephone ground wires. Incomplete grounding may cause electrical shocks or fire.
- **Install a circuit interrupter.**
Lack of one may cause electric shock or fire.

- **For refrigerant leakage, consult your dealer.**
Refrigerant leakage in excess of the level of concentration limits may result in oxygen deficiency. When the air conditioner is installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant will not exceed the limiting concentration even if it leaks.

— **⚠ CAUTION for installation** —

- **Do not install the air conditioner in places where flammable gas may leak out.**
Leaked gas may accumulate around the unit, causing an explosion.
- **Do not locate the remote controller in a spot splashed with water.**
Water coming inside the machine may cause electric shocks or may damage the internal electronic parts.
- **Arrange the drain hose to ensure smooth drainage.**
Incomplete drainage may cause water leakage.

[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.**
 - Places with a mist of mineral oil, such as cutting oil.
 - Locations such as coastal areas where there is a lot of salt in the air.
 - Locations such as hot springs resorts where there is a lot of sulfur in the air.
 - Locations such as factories where the power voltage varies a lot.
 - In cars, boats, and other vehicles.
 - Locations such as kitchens where oil may splatter or there is steam in the air.
 - Locations where equipment that produces electromagnetic waves is found.
 - Places with an acid or alkaline mist.
 - Places where fallen leaves are accumulated or weeds grow close together.
- **Take snow protection measures.**
Contact your 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 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.**
 - Places that can sufficiently withstand the weight of the air conditioner and suppress the operating sound and vibration of the air conditioner.
 - 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 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 dealer.

2. SPECIFICATIONS

[Single outdoor unit system]

Model name	REYQ8PY1	REYQ10PY1	REYQ12PY1
Power supply			
Phase	—	3N~	3N~
Frequency (Hz)	50	50	50
Voltage (V)	380-415	380-415	380-415
Nominal cooling capacity (kW)	22.4	28.0	33.5
Nominal heating capacity (kW)	25.0	31.5	37.5
Dimensions HxWxD (mm)	1680x1300x765	1680x1300x765	1680x1300x765
Mass (kg)	331	331	331
Refrigerant			
type	—	R410A	R410A
charge (*1) (kg)	10.3	10.6	10.8
Design pressure			
High side (bar)	40	40	40
(MPa)	4.0	4.0	4.0
Low side (bar)	33	33	33
(MPa)	3.3	3.3	3.3

Model name	REYQ14PY1	REYQ16PY1
Power supply		
Phase	—	3N~
Frequency (Hz)	50	50
Voltage (V)	380-415	380-415
Nominal cooling capacity (kW)	40.0	45.0
Nominal heating capacity (kW)	45.0	50.0
Dimensions HxWxD (mm)	1680x1300x765	1680x1300x765
Mass (kg)	339	339
Refrigerant		
type	—	R410A
charge (*1) (kg)	11.1	11.1
Design pressure		
High side (bar)	40	40
(MPa)	4.0	4.0
Low side (bar)	33	33
(MPa)	3.3	3.3

*1: Refrigerant charge at factory shipment

[Multi outdoor unit system]

Model name	REYQ18PY1	REYQ20PY1	REYQ22PY1
Independent Unit	REM08PY1 REM10PY1	REM08PY1 REM12PY1	REM10PY1 REM12PY1
Power supply			
Phase	—	3N~	3N~
Frequency	(Hz)	50	50
Voltage	(V)	380-415	380-415
Nominal cooling capacity	(kW)	50.4	55.9
Nominal heating capacity	(kW)	56.5	62.5
Dimensions HxWxD	(mm)	(1680x930x765)x2	(1680x930x765)x2
Mass	(kg)	204+254	204+254
Refrigerant			
type	—	R410A	R410A
charge (*1)	(kg)	8.2+9.0	8.2+9.1
Design pressure			
High side	(bar)	40	40
	(MPa)	4.0	4.0
Low side	(bar)	33	33
	(MPa)	3.3	3.3

Model name	REYQ24PY1	REYQ26PY1	REYQ28PY1
Independent Unit	REM12PY1 REM12PY1	REM10PY1 REM16PY1	REM12PY1 REM16PY1
Power supply			
Phase	—	3N~	3N~
Frequency	(Hz)	50	50
Voltage	(V)	380-415	380-415
Nominal cooling capacity	(kW)	67.0	73.0
Nominal heating capacity	(kW)	75.0	81.5
Dimensions HxWxD	(mm)	(1680x930x765)x2	(1680x930x765) +(1680x1240x765)
Mass	(kg)	254x2	254+334
Refrigerant			
type	—	R410A	R410A
charge (*1)	(kg)	9.1x2	9.0+11.7
Design pressure			
High side	(bar)	40	40
	(MPa)	4.0	4.0
Low side	(bar)	33	33
	(MPa)	3.3	3.3

Model name	REYQ30PY1	REYQ32PY1
Independent Unit	REM14PY1 REM16PY1	REM16PY1 REM16PY1
Power supply		
Phase	—	3N~
Frequency	(Hz)	50
Voltage	(V)	380-415
Nominal cooling capacity	(kW)	85.0
Nominal heating capacity	(kW)	95.0
Dimensions HxWxD	(mm)	(1680x1240x765) x2
Mass	(kg)	334x2
Refrigerant		
type	—	R410A
charge (*1)	(kg)	11.7x2
Design pressure		
High side	(bar)	40
	(MPa)	4.0
Low side	(bar)	33
	(MPa)	3.3

Model name	REYQ34PY1	REYQ36PY1	REYQ38PY1
Independent Unit	REM08PY1 REM10PY1 REM16PY1	REM08PY1 REM12PY1 REM16PY1	REM10PY1 REM12PY1 REM16PY1
Power supply			
Phase	—	3N~	3N~
Frequency	(Hz)	50	50
Voltage	(V)	380-415	380-415
Nominal cooling capacity	(kW)	95.4	101
Nominal heating capacity	(kW)	107	113
Dimensions HxWxD	(mm)	(1680x930x765)x2 +(1680x1240x765)	(1680x930x765)x2 +(1680x1240x765)
Mass	(kg)	204+254+334	204+254+334
Refrigerant			
type	—	R410A	R410A
charge (*1)	(kg)	8.2+9.0+11.7	8.2+9.1+11.7
Design pressure			
High side	(bar)	40	40
	(MPa)	4.0	4.0
Low side	(bar)	33	33
	(MPa)	3.3	3.3

Model name	REYQ40PY1	REYQ42PY1	REYQ44PY1
Independent Unit	REM12PY1 REM12PY1 REM16PY1	REM10PY1 REM16PY1 REM16PY1	REM12PY1 REM16PY1 REM16PY1
Power supply			
Phase	—	3N~	3N~
Frequency	(Hz)	50	50
Voltage	(V)	380-415	380-415
Nominal cooling capacity	(kW)	112	118
Nominal heating capacity	(kW)	125	132
Dimensions HxWxD	(mm)	(1680x930x765)x2 +(1680x1240x765)	(1680x930x765)+ (1680x1240x765)x2
Mass	(kg)	254x2+334	254+334x2
Refrigerant			
type	—	R410A	R410A
charge (*1)	(kg)	9.1x2+11.7	9.0+11.7x2
Design pressure			
High side	(bar)	40	40
	(MPa)	4.0	4.0
Low side	(bar)	33	33
	(MPa)	3.3	3.3

Model name	REYQ46PY1	REYQ48PY1
Independent Unit	REM14PY1 REM16PY1 REM16PY1	REM16PY1 REM16PY1 REM16PY1
Power supply		
Phase	—	3N~
Frequency	(Hz)	50
Voltage	(V)	380-415
Nominal cooling capacity	(kW)	130
Nominal heating capacity	(kW)	145
Dimensions HxWxD	(mm)	(1680x1240x765)x3
Mass	(kg)	334x3
Refrigerant		
type	—	R410A
charge (*1)	(kg)	11.7x3
Design pressure		
High side	(bar)	40
	(MPa)	4.0
Low side	(bar)	33
	(MPa)	3.3





*1: Refrigerant charge at factory shipment

3. 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.

Outdoor units (Refer to figure 1)

Cool/Heat selector	Operation modes
Inverter series	
Heat recovery REYQ series <input type="checkbox"/> yes <input type="checkbox"/> no	   

• Names and functions of parts (Refer to figure 1)

1. Outdoor unit
 2. Indoor unit
 3. Remote controller
 4. Inlet air
 5. Outlet air
 6. BS unit
 7. Cool/Heat selector
 8. Refrigerant piping
- (figure 1 shows system with Cool/Heat selector)

4. REMOTE CONTROLLER AND COOL/HEAT SELECTOR: NAME AND FUNCTION OF EACH SWITCH AND DISPLAY (Refer to figure 2 and 3)

1. On/off button

Press the button and the system will start. Press the button again and the system will stop.

2. Operation lamp (red)

The lamp lights up during operation.

3. Display “” (changeover under control)

It is impossible to changeover heat/cool with the remote controller which display this icon.

Refer to the chapter “6-5 SETTING THE MASTER REMOTE CONTROLLER”.

4. Display “” (air flow flap)

Refer to the chapter “6-3 ADJUSTING THE AIR FLOW DIRECTION”.

5. Display “ OPTION” (ventilation/air cleaning)

This display shows that the ventilation unit are in operation. (these are optional accessories)

6. Display “” (set temperature)

This display shows the temperature you have set.

7. Display “” “” “” “” “” (operation mode)

This display shows the current operation mode.

8. Display “” (programmed time)

This display shows the programmed time of the system start or stop.

9. Display “ TEST” (inspection/test operation)

When the inspection/test operation button is pressed, the display shows the mode in which the system actually is.

10. Display “” (under centralized control)

When this display shows, the system is under centralized control. (This is not a standard specification.)

11. Display “” (fan speed)

This display shows the fan speed you have selected.

12. Display “” (time to clean air filter)

Refer to the operation manual of indoor unit.

13. Display “” (defrost/hot start)

Refer to the “EXPLANATION OF HEATING OPERATION” in chapter 6-1.

14. Timer mode start/stop button

Refer to the chapter “6-4 PROGRAMMING START AND STOP OF THE SYSTEM WITH TIMER”.

15. Timer on/off button

Refer to the chapter “6-4 PROGRAMMING START AND STOP OF THE SYSTEM WITH TIMER”.

16. Inspection/test operation button

This button is only used by qualified service persons for maintenance purposes.

17. Programming time button

Use this button for setting the programming start and/or stop time.

Refer to the chapter “6-4 PROGRAMMING START AND STOP OF THE SYSTEM WITH TIMER”.

18. Temperature setting button

Use this button for setting the desired temperature. Refer to the chapter “6-1 COOLING, HEATING, AUTOMATIC AND FAN ONLY OPERATION”.

19. Filter sign reset button

Refer to the operation manual of indoor unit.

20. Fan speed control button

Press this button to select the fan speed of your preference.

21. Operation mode selector button

- Press this button to select the operation mode of your preference.



- Press this button to designate the master remote controller.

Refer to the chapter “6-5 SETTING THE MASTER REMOTE CONTROLLER”.



22. Air flow direction adjust button

Refer to the chapter “6-3 ADJUSTING THE AIR FLOW DIRECTION”.

23. Fan only/air conditioning selector switch

Set the switch to “” for fan only operation or to “” for heating or cooling operation.

24. Cool/heat changeover switch

Set the switch to “” for cooling operation or to “” for heating operation.

25. Thermistor

It sense the room temperature around the remote controller.

26. These button are used when the ventilation unit are installed (These are optional accessories)

Refer to the operation manual of the ventilation unit.

NOTE

- Do not place the controller exposed to direct sunlight. The LCD display may get discolored, failing to display the data.
- Never pull or twist the electric wire of a remote controller. It may cause the unit to malfunction.
- Do not allow sharp or hard items to touch the buttons of the remote controller. The remote controller may be damaged or breakdown may occur.
- In contradistinction to actual operating situations, the display on figure 2 shows all possible indications.
- Figure 2 shows the remote controller which is opened the cover.
- For FXS, FXM, FXL and FXN, the air flow direction adjust button (22) is not available and the display (4) shows “NOT AVAILABLE” when pressed.

5. OPERATION RANGE

Use the system in the following temperature and humidity ranges for safe and effective operation.

	COOLING	HEATING
outdoor temperature	-5°~43°CDB	-20°~21°CDB -20°~15.5°CWB
indoor temperature	21°~32°CDB 14°~25°CWB	15°~27°CDB
indoor humidity	≤ 80%	—

NOTE

- Cooling operation:
If the air conditioner is operated continuously while the indoor temperature is 21°C or below and the humidity is 80% or over, the interiors of the indoor units may cause icing and water leakage may result.
- Heating operation:
The air conditioner may stop operating for the protection of the machine if the outdoor temperature is 21°C or over.





6. OPERATION PROCEDURE

- Operation procedure varies according to the combination of outdoor unit and remote controller. Read the chapter “What to do before operation”.
- To protect the unit, turn on the main power switch 6 hours before operation.
And do not turn off the power supply during the air conditioning season because of smoothly start up.
- If the main power supply is turned off during operation, operation will restart automatically after the power turns back on again.




6-1 COOLING, HEATING, AUTOMATIC AND FAN ONLY OPERATION

FOR SYSTEMS WITHOUT COOL/HEAT SELECTOR (Refer to figure 4)

- 1 Press the operation mode selector button several times and select the operation mode of your choice;






- “” Cooling operation
- “” Heating operation
- “” Automatic operation
- “” Fan only operation

NOTE

- Automatic operation (REYQ only)
In this operation mode, cool/heat changeover is automatically conducted.
- The operation mode cannot be changed with the remote controller whose display shows “” (changeover under control). Change the operation mode with the remote controller whose display does not show “”.
- When the display “” (changeover under control) flashes, refer to the chapter “6-5 SETTING THE MASTER REMOTE CONTROLLER”.

- 2 Press the on/off button.
The operation lamp lights up and the system starts operation.

FOR SYSTEMS WITH COOL/HEAT SELECTOR (Refer to figure 4 and 7)

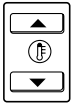
- 1 Select operation mode with the Cool/Heat selector as follows:
 - “” “” Cooling operation (Refer to figure 7.1)
 - “” “” Heating operation (Refer to figure 7.2)
 - “” Fan only operation (Refer to figure 7.3)

- 2 Press the on/off button. (Refer to figure 4)
The operation lamp lights up and the system starts operation.

ADJUSTMENT (Refer to figure 4)

For adjustment the desired temperature, fan speed and air flow direction (only for the remote controller BRC1A51: FXC, FXF, FXH, FXK, FXA), follow the procedure shown below.

- 3 Press the temperature setting button and set the desired temperature.



Each time this button is pressed, the temperature setting rises or lowers 1°C.

NOTE

- Set the temperature within the operation range.
- The temperature setting is impossible for fan only operation.

- 4 Press the fan speed control button and select the fan speed of your preference.

NOTE

- For machine protection the system may control the air flow rate automatically.
- The air flow rate may be adjusted automatically depending on the room temperature or the fan may stop immediately. This is not a malfunction.
- It may take sometime for finishing to change the air flow rate.
This is normal operation.

- 5 Press air flow direction adjust button. Refer to the chapter “6-3 ADJUSTING THE AIR FLOW DIRECTION” for details.

STOPPING THE SYSTEM (Refer to figure 4)

- 6 Press the on/off button once again. The operation lamp goes off and the system stops operation.


NOTE

- The fan may keep on running for about 1 minute after the heating operation stops for removing the heat in the indoor unit.
- Do not turn off the power immediately after the unit stops.
The system need at least 5 minutes for residual operation of drain pump device. Turning off the power immediately will cause water leak or trouble.


EXPLANATION OF HEATING OPERATION

- In general, heating operation may take longer to reach the set temperature than in cooling operation. We recommend starting the operation which was used before using timer operation.
- The following operation is performed in order to prevent the heating capacity from dropping or cold air from blowing.

Defrost operation

- In heating operation, freezing of the outdoor unit heat exchanger increases. Heating capability decreases and the system goes into defrost operation.
- The airflow will be set to breeze or stop.
- If stopped, the display of the remote controller shows “”.
- Once the airflow is set to breeze or stop, the air conditioner will return to the previous state in approximately 5 to 15 minutes.

Hot start





- In order to prevent cold air from blowing out of an indoor unit at the start of heating operation, the indoor fan is automatically stopped. The display of the remote controller shows “”.
- The heating capacity drops as the outside temperature falls. If this happens, use another heating device together with the unit. (When using the appliances which produce open fire together, ventilate a room constantly.)
Do not place appliances which produce open fire in places exposed to the air flow from the unit or under the unit.
- It takes some time for the room to warm up from the time the unit is started since the unit is a hot-air circulatory system to warm the entire room.
- If the hot air rises to the ceiling, leaving the area above the floor cold, we recommend using the circulator (the indoor fan for circulating air). Contact your dealer for details.


6-2 PROGRAM DRY OPERATION

- The program dry function deprives the room of moisture while the air conditioner is in intermittent weak cooling operation so that the room temperature will not become too low.
- The microcomputer automatically controls the temperature and fan speed, so these cannot be set using the remote controller.
- This function is not available if the room temperature is 20°C or lower.
- This function does not controls the humidity.
- FXL and FXN type indoor unit can not operate program dry operation.

FOR SYSTEMS WITHOUT COOL/HEAT SELECTOR (Refer to figure 5)

NOTE


- If “” (Cooling operation) is not displayed, refer to “6-1 COOLING, HEATING, AUTOMATIC AND FAN ONLY OPERATION”, and set “” (Cooling operation).
Unless the air conditioner is set to “” (Cooling operation), the air conditioner cannot be switched over to “” (program dry operation).

- 1 Press the operation mode selector button several times and select “” (program dry operation).
- 2 Press the on/off button.
The operation lamp lights up and the system starts operation.
- 3 Press the air flow direction adjust button (only for FXC, FXF, FXH, FXK, FXA). Refer to the chapter “6-3 ADJUSTING THE AIR FLOW DIRECTION” for details.
- 4 Press the on/off button once again.
The operation lamp goes off and the system stops operation.

NOTE 

- Do not turn off the power immediately after the unit stops.
The system need at least 5 minutes for residual operation of drain pump device.
Turning off the power immediately will cause water leak or trouble.


FOR SYSTEMS WITH COOL/HEAT SELECTOR (Refer to figure 8)


- 1 Select cooling operation mode with the Cool/Heat selector.
- 2 Press the operation mode selector button several times and select program dry “”.
- 3 Press the on/off button.
The operation lamp lights up and the system starts operation.
- 4 Press the air flow direction adjust button (only for FXC, FXF, FXH, FXK, FXA). Refer to the chapter “6-3 ADJUSTING THE AIR FLOW DIRECTION” for details.
- 5 Press the on/off button once again.
The operation lamp goes off and the system stops operation.

NOTE 

- Do not turn off the power immediately after the unit stops.
The system need at least 5 minutes for residual operation of drain pump device.
Turning off the power immediately will cause water leak or trouble.

6-3 ADJUSTING THE AIR FLOW DIRECTION (Refer to figure 6) (only for Double-flow, Multi-flow, Corner, Ceiling-suspended and Wall-mounted)

- 1 Press the air flow direction adjust button to select the air direction.
The air flow flap display swings as shown right and the air flow direction continuously varies. (Automatic swing setting) 


- 2 Press the air flow direction adjust button to select the air direction of your choice.
The air flow flap display stops swinging and the air flow direction is fixed. (Fixed air flow direction setting) 


MOVEMENT OF THE AIR FLOW FLAP

For the following conditions, a micro computer controls the air flow direction which may be different from the display.


COOLING	HEATING
_____	<ul style="list-style-type: none"> • When starting operation. • When the room temperature is higher than the set temperature. • At defrost operation.
<ul style="list-style-type: none"> • When operating continuously at horizontal air flow direction. • When continuous operation with downward air flow is performed at the time of cooling with a ceiling-suspended or a wall-mounted unit, the microcomputer may control the flow direction, and then the remote control indication also will change. 	

The air flow direction can be adjusted in one of the following ways.



Automatic “”: The air flow direction will very continuously. (Refer to figure 13-1)

Desired position “”: The air flow direction can be fixed by the user. (Refer to figure 13-2)


NOTE 

- The movable limit of the flap is changeable. Contact your Daikin dealer for details. (Only for Double-flow, Multi-flow, Corner, Ceiling-suspended and Wall-mounted.)
- Avoid operating in the horizontal direction “”. It may cause dew or dust to settle on the ceiling.

6-4 PROGRAMMING START AND STOP OF THE SYSTEM WITH TIMER (Refer to figure 9)

- The timer is operated in the following two ways.
Programming the stop time “”
The system stops operating after the set time has elapsed.
Programming the start time “”
The system starts operating after the set time has elapsed.
- The timer can be programmed for a maximum of 72 hours.
- The start and the stop time can be simultaneously programmed.

- 1 Press the timer mode start/stop button several times and select the mode on the display. The display flashes.
 - For setting the timer stop “⊕ ▶ ○”
 - For setting the timer start “⊕ ▶ |”
- 2 Press the programming time button and set the time for stopping or starting the system.



Each time this button is pressed, the time advances or goes backward by 1 hour.
- 3 Press the timer on/off button. The timer setting procedure ends. The display “⊕ ▶ ○” or “⊕ ▶ |” changes from flashing light to constant light.

NOTE 

- When setting the timer off and on at the same time, repeat the above procedure (from “1” to “3”) once again.
- After the timer is programmed, the display shows the remaining time.
- Press the timer on/off button once again to cancel programming. The display vanishes.

For example: (Refer to figure 11)

When the timer is programmed to stop the system after 3 hours and start the system after 4 hours, the system will stop after 3 hours and start 1 hour later.

6-5 SETTING THE MASTER REMOTE CONTROLLER

- In the case of the system as shown in figure 14, only the master remote controller can select operation mode.

(Refer to figure 14)

1. Outdoor unit
2. BS unit
3. Indoor unit
4. Remote controller
5. **Some indoor units are connected to one BS unit.**
One of these remote controller is master remote controller.
6. **One indoor unit is connected to one BS unit.**
Each remote controller is master remote controller.

In the case of the system as shown in figure 15, none of the remote controllers can select operation mode.



(Refer to figure 15)

1. Outdoor unit
2. BS unit
3. Indoor unit
4. Remote controller

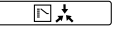
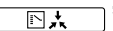
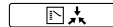
5. COOL/HEAT Selector

6. The COOL/HEAT Selector is connected to BS unit.

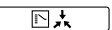
The COOL/HEAT Selector can select operation mode.

- Only the master remote controller can select heating, cooling, automatic operation.
- The displays of slave remote controllers show “” (changeover under control) and they automatically follow the operation mode directed by the master remote controller. However, it is possible to changeover to program dry with slave remote controllers if the system is in cooling operation by setting on the master remote controller and to changeover to fan only operation.
- In the case of the system as shown in figure 15, the display of all remote controllers show “” (changeover under control).

How to designate the master remote controller (Refer to figure 10)

- 1 Press the operation mode selector button of the current master remote controller for 4 seconds. The display showing “” (changeover under control) of all remote controllers connected to the same outdoor unit flashes.
- 2 Press the operation mode selector button of the controller that you wish to designate as the master remote controller. Then designation is completed. This remote controller is designated as the master remote controller and the display showing “” (changeover under control) vanishes. The displays of other remote controllers show “” (changeover under control).

How to change the operation mode (Refer to figure 10)

- 3 Press the operation mode selection button of the master remote controller, which does not show “” (changeover under control) repeatedly until the air conditioner is set to the desired operation mode. The display will change to FAN, DRY, AUTO (REYQ models only), COOLING, or HEATING each time the button is pressed. The other remote controllers with no option rights will follow suit and change their displays automatically.

6-6 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 about your system to Daikin dealer.

• 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.

7. 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 keep doors and windows opened. 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 effect 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.
- When the display shows “” (time to clean the air filter), ask a qualified service person to clean the filters. (Refer to the chapter “Maintenance” in the indoor unit manual.)
- Keep the indoor unit and remote control at least 1 m away from televisions, radios, stereos, and other similar equipment.
Failing to do so may cause static or distorted pictures.

- Turn off the main power supply switch to the unit when the unit is not used for longer periods of time. If the switch is on, it uses electricity. Before restarting the unit, turn on the main power supply switch 6 hours before operation to ensure smooth running. (Refer to the chapter “Maintenance” in the indoor unit manual.)
- Fully use the function of air flow direction adjust. 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 to a person.
- It takes time for the room temperature to reach the set temperature.
We recommend starting the operation in advance using timer operation.

8. SEASONAL MAINTENANCE

— CAUTION —

- **Do not touch the air inlets or aluminum fins of the outdoor or indoor units.**
Touching them may result in injury.
- **Do not wash the outdoor or indoor units with water.**
An electric shock or fire may result.
- **Watch your steps at the time of air filter cleaning etc.**
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.

8-1 AT THE BEGINNING OF THE SEASON

Check

- Are the indoor and outdoor 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 appear.
(To protect the unit, turn the power on at least 6 hours before operating it. This makes operation smoother.)

8-2 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 6 for details on fan operation.

Turn off the power.

- When the power is shut off, the characters in the remote controller display disappear.
- 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.

9. FOLLOWING SYMPTOMS ARE NOT AIR CONDITIONER TROUBLES

9-1 THE SYSTEM DOES NOT OPERATE

- **The air conditioner does not start immediately when restart the operation after stop the operation or change operation mode after set 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 “Centralized 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 one minute until the micro computer is prepared for operation.

9-2 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.

9-3 COOL/HEAT CANNOT BE CHANGED OVER

- **When the display shows “” (changeover under control).**

It shows that this is a slave remote controller.

Refer to “Setting the master remote controller”.

- **When the cool/heat selector switch is installed and the display shows “” (changeover under control).**

This is because cool/heat changeover is controlled by the cool/heat selector. Ask your Daikin dealer where the remote control switch is installed.

9-4 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.

9-5 THE FAN STRENGTH DOES NOT CORRESPOND TO THE SETTING

- **The fan strength does no change even if the fan strength adjustment button is pressed.**

During heating operation, when the room temperature reaches the set temperature, the outdoor unit goes off and the indoor unit changes to whisper fan strength.

This is to prevent cold air blowing directly on occupants of the room.

The fan strength will not change even if the button is changed, when another indoor unit is in heating operation.

9-6 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”.

9-7 WHITE MIST COMES OUT OF A UNIT

Indoor unit

- **When humidity is high during cooling operation.**

If the interior of an 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.

Outdoor unit

- **When the system is changed over to heating operation after defrost operation.**

Moisture generated by defrost becomes steam and is exhausted.

9-8 NOISE OF AIR CONDITIONERS

Indoor unit

- **A “zeen” 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 one minute.

- **A continuous low “shah” sound is heard when the system is in cooling operation or at a stop.**

When the drain pump (optional accessories) is in operation, this noise is heard.

- **A “pishi-pishi” 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 “sah”, “choro-choro” 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.

Outdoor unit

- **When the tone of operating noise changes.**

This noise is caused by the change of frequency.

Indoor unit, outdoor unit

- **A continuous low hissing sound is heard when the system is in cooling or defrost operation.**

This is the sound of refrigerant gas flowing through both indoor and outdoor units.

- **A hissing sound which is heard at the start or immediately after stopping operation or defrost operation.**

This is the noise of refrigerant caused by flow stop or flow change.

9-9 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.

9-10 THE UNITS CAN GIVE OFF ODOURS

- **During operation.**

The unit can absorb the smell of rooms, furniture, cigarettes, etc., and then emit it again.

9-11 THE OUTDOOR UNIT FAN DOES NOT SPIN

- **During operation.**

The speed of the fan is controlled in order to optimize product operation.

9-12 THE DISPLAY SHOWS “88”

- **This is the case immediately after the main power supply switch is turned on.**

This means that the remote controller is in normal condition. This continues for one minute.

9-13 THE COMPRESSOR OR FAN IN THE OUTDOOR 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.**

9-14 THE INSIDE OF AN OUTDOOR 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.**

9-15 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.

9-16 DOES NOT COOL VERY WELL

- **Program dry operation.**

Program dry operation is designed to lower the room temperature as little as possible.

Refer to page 7.


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 (burning smells, etc.)

Leaving the unit running under such circumstances may cause breakage, electrical shock, or fire. Contact your dealer.

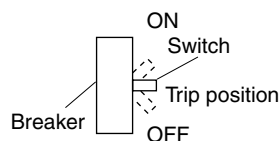
- If a safety device such as a fuse, a breaker or an earth leakage breaker frequently actuates;
Measure : Do not turn on the main power switch.
- If the ON/OFF switch does not properly work;
Measure: Turn off the main power switch.
- If water leaks from unit;
Measure: Stop the operation.
- The operation switch does not work well.
Turn off the power.
- If the display “ TEST”, the unit number and the operation lamp flash and the malfunction code appears; **(Refer to figure 12)**
 1. Inspection display
 2. Indoor unit number in which a malfunction occurs
 3. Operation lamp
 4. Malfunction codeMeasure: Notify your Daikin dealer and report the malfunction code.



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 yourself after checking all the above items, contact your dealer.

Let him know the symptoms, system name, and model name (listed on the warranty card).

1. If the system does not operate at all;
 - Check if there is no 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 no 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 outdoor 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 the air filter);
Refer to the operation manual of the indoor unit.
And clean the air filter.
3. The system operates but cooling or heating is insufficient;
 - Check if air inlet or outlet of outdoor 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 the air filter);
Refer to the operation manual of the indoor unit.
And clean the air filter.
 - 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 not proper.
Refer to “Operation procedure”.

After-sales service and warranty

After-sales service:

⚠ WARNING

- **Do not modify, disassemble or repair the unit.**
This may cause electric shock or fire.
Contact your dealer.
- **If the refrigerant leaks, keep out of fire.**
Although the refrigerant does not usually leak, if the refrigerant leaks out into a room and comes in contact with the combustible air in the equipment such as fan heater, stove, oil (gas) cooker, etc., it will cause toxic gas to be generated.
When a refrigerant leakage failure has been repaired, confirm a service person that the leakage point has been corrected surely before restarting operation.

- **Do not remove or reinstall the unit by yourself.** Incorrect installation may cause electrical shock or fire.
Contact your dealer.

- **When asking your dealer to repair, inform related staff of the details as follows:**

- Product No. of air conditioner:
Refer to the warranty card.
- Shipping date and installation date:
Refer to the warranty card.
- Malfunction:
Inform the staff of the defective details.
(Malfunction code being displayed on the remote controller.)
- Name, address, telephone number

- **Repair where the warranty term is expired**
Contact your dealer. If necessary to repair, pay service is available.

- **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.
Taking apart 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
PC 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		Outdoor: 10 years 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.

Note 3

It is necessary to shorten the maintenance cycle and replacement cycle under tough operating conditions (e.g., the air conditioner is operated for long hours or started and stopped highly frequently) or under tough environmental conditions (e.g., the air conditioner is operated at high ambient temperatures in a highly humid place).

■ 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 system air conditioner since they require technical expertise.
- The system air conditioner uses fluorocarbon refrigerant.

Contact your dealer for discarding the system air conditioner since it is required by law to collect, transport and discard the refrigerant in accordance with relevant local and national regulations.

■ Where to call

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

■ Warranty period:

- This product includes a warranty card.
The warranty card is given to a customer after dealer staff fills out necessary items in the card. The customer should check the entered items and store it carefully.
Warranty period: Within one year after installation.
 For further details, refer to the warranty card.
- If it is necessary to repair the air conditioner within the warranty period, contact your dealer and show your warranty card. If the warranty card is not shown, pay-service repair may be performed even though the warranty period is not expired.

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