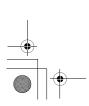




### **OPERATION MANUAL**

# **URV** IV System air conditioner











#### 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. Use it along with the operation manual for the indoor unit. After reading the manual, file it away for future reference.

### **CONTENTS**

#### **READ BEFORE OPERATION**

Safety precaution	1
Names of parts	4
Preparation Before Operation	6
Useful Information	6
OPERATION	
COOLING · FAN Operation	7
Program DRY Operation	
Adjusting the Air Flow Direction	g
ON/OFF TIMER Operation	
How to set Master Remote Controller	
TROUBLE SHOOTING	
Trouble Shooting	
Check the following before requesting service	













# Safety precaution

To gain full advantage of the air conditioner's functions and to avoid malfunction due to mishandling, we recommend that you read this instruction manual carefully before use.

Read the precautions thoroughly to avoid misuse of the equipment.

This air conditioner is classified under "appliances not accessible to the general public".

• The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.

There are two kinds of safety precaution and tips listed in the following.



Failure to follow these instructions properly may result in personal injury or loss of life.

### **CAUTION**

Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the
equipment is transferred to a new user, be sure also to hand over the manual.

#### **⚠ WARNING**

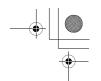
- Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health.
- When the air conditioner is malfunctioning (giving off a burning odour, etc.) turn off power to the unit and contact your local dealer.
  - Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.
- Consult your local dealer about installation work.
   Doing the work yourself may result in water leakage, electric shocks or fire hazards.
- Consult your local dealer regarding modification, repair and maintenance of the air conditioner.
   Improper workmanship may result in water leakage, electric shocks or fire hazards.
- Do not place objects, including rods, your fingers, etc., in the air inlet or outlet.
  - Injury may result due to contact with the air conditioner's high speed fan blades.
- Never touch the air outlet or the horizontal blades while the swing flap is in operation.
  - Fingers may become caught or the unit may break down.

- · Beware of fire in case of refrigerant leakage.
- If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause.
- Consult your dealer for assistance.
- The refrigerant within the air conditioner is safe and normally does not leak.
- However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas.
- Do not longer use the air conditioner until a qualified service person confirms that the leakage has been repaired.
- Consult your local dealer regarding what to do in case of refrigerant leakage.
  - When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of a leakage. Otherwise, this may lead to an accident due to oxygen depletion.
- Contact professional personnel about attachment of accessories and be sure to use only accessories specified by the manufacturer.
  - If a defect results from your own workmanship, it may result in water leaks, electric shock or fire.
- Consult your local dealer regarding relocation and reinstallation of the air conditioner.
  - Improper installation work may result in leakage, electric shocks or fire hazards.









### **⚠ WARNING**

 Be sure to use fuses with the correct ampere reading.

Do not use improper fuses, copper or other wires as a substitute, as this may result in electric shock, fire, injury or damage to the unit.

• Be sure to earth the unit.

Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks or fire.

A high surge current from lightning or other sources may cause damage to the air conditioner.

- Be sure to install an earth leakage breaker.
  Failure to install an earth leakage breaker may result in electric shocks or fire.
- 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 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 use the product in the atmosphere contaminated with oil vapor, such as cooking oil or machine oil vapor.

Oil vapor may cause crack damage, electric shocks, or fire.

- Do not use the product in places with excessive oily smoke, such as cooking rooms, or in places with flammable gas, corrosive gas, or metal dust.
   Using the product in such places may cause fire or product failures.
- Do not place burners or heaters in places exposed to the air flow from the unit as this may impair combustion of the burner or heather
- Do not use flammable materials (e.g., hairspray or insecticide) near the product.
   Do not clean the product with organic solvents such

**as paint thinner.**The use of organic solvents may cause crack damage to the product, electric shocks, or fire.

 Be sure to use a dedicated power supply for the air conditioner.

The use of any other power supply may cause heat generation, fire, or product failures.

 Consult your dealer regarding cleaning the inside of the air conditioner.

Improper cleaning may cause breakage of plastic parts, water leakage and other damage as well as electric shocks.

### **⚠** CAUTION

 Do not use the air conditioner for purposes other than those for which it is intended.

Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.

- Do not remove the indoor/outdoor unit's fan guard.
   The guard protects against the unit's high speed fan, which may cause injury.
- Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units.

Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned

 To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.  After prolonged use, check the unit stand and its mounts for damage.

If left in a damaged condition, the unit may fall and cause injury.

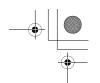
- Do not place flammable sprays or operate spray containers near the unit as this may result in fire.
- Before cleaning, be sure to stop unit operation, turn the breaker off or remove the power cord.
   Otherwise, an electric shock and injury may result.
- To avoid electric shocks, do not operate with wet hands.
- Do not place appliances that produce naked flames in places exposed to the air flow from the unit as this may impair combustion of the burner.
- Do not place heaters directly below the unit, as resulting heat can cause deformation.











### **⚠** CAUTION

- Do not allow a child to mount on the outdoor unit or avoid placing any object on it.
   Falling or tumbling may result in injury.
- Do not sit or place objects on the outdoor unit.
   Falling yourself or falling objects could cause injury.
- Do not block air inlets or outlets. Impaired air flow may result in insufficient performance or trouble.
- Be sure that children, plants or animals are not exposed directly to airflow from the unit, as adverse effects may ensue.
- Do not wash the air conditioner or the remote controller with water, as this may result in electric shocks or fire.
- Do not install the air conditioner at any place where there is a danger of flammable gas leakage.

In the event of a gas leakage, build-up of gas near the air conditioner may result in fire hazards.

- Do not place flammable sprays near the unit as this can cause explosions.
- Arrange the drain hose to ensure smooth drainage.

Imperfect drainage may cause wetting of the building, furniture etc.

Arrange the drain to ensure complete drainage.
 If proper drainage from the outdoor drain pipe does not occur during air conditioner operation, there could be a blockage due to dirt and debris build-up in the pipe.

This may result in a water leakage from the indoor unit. Under these circumstances, stop air conditioner operation and consult your dealer for assistance.

- The appliance is not intended for use by unattended young children or infirm persons. Impairment of bodily functions and harm to health may result.
- Children should be supervised to ensure that they do not play with the unit or its remote controller.

Accidental operation by a child may result in impairment of bodily functions and harm health.

 Do not let children play on or around the outdoor unit.

If they touch the unit carelessly, injury may be caused.

- Do not place water containers (flower vases, etc.) on the unit, as this may result in electric shocks or fire.
- To avoid injury, do not touch the air inlet or aluminium fins of the unit.
- Never press the button of the remote controller with a hard, pointed object.

The remote controller may be damaged.

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

Fumigation chemicals deposited in the unit could endanger the health of those who are hypersensitive to such chemicals.

 Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit.

Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.

- Never touch the internal parts of the controller.
  Do not remove the front panel. Touching certain
  internal parts will cause electric shocks and
  damage to the unit. Please consult your dealer
  about checking and adjustment of internal parts.
- Do not leave the remote controller wherever there is a risk of wetting.

If water gets into the remote controller there is a risk of electrical leakage and damage to electronic components.

- Turn off the main power switch when the air conditioner is not to be used for prolonged periods. When the main power switch is left on, some electric power (watts) is still consumed even if the air conditioner is not operating. Therefore, switch off the main power switch to save energy. When resuming operation, to ensure smooth running, turn on the main power switch 6 hours before operating the air conditioner again for 5HP only.
- Watch your steps at the time of air filter cleaning or inspection.

High-place work is required, to which utmost attention must be paid.

If the scaffold is unstable, you may fall or topple down, thus causing injury.

 Ensure that the remote controller is not exposed to direct sunlight.

This will cause discoloration of the LCD display with resulting loss of readability.

 Do not wipe the controller panel with benzene or other organic solvent.

This will cause discoloration and/or peeling. If the panel needs cleaning, use a damp cloth with some water-diluted neutral detergent. Wipe with a dry cloth afterwards

- Do not pull or twist the remote controller cord. This may cause malfunctioning.
- Take care of scaffolding and exercise caution when working high above ground level.
- Do not operate with the control panel lid open.
   If water gets inside the panel, it may result in equipment failure or electric shock.
- Arrange the drain hose to ensure smooth drainage.
   Imperfect drainage may cause wetting.









### Names of parts

#### Installation site

- Install the air conditioner in a well-ventilated place that is free of obstructions
- Do not use the air conditioner in the following kinds of places:
  - a. Where there is considerable use of mineral oil such as cutting oil
  - b. Where there is much salt such as a beach area
  - c. Where there is sulphur gas such as in a hot-spring resort
  - d. Where there are considerable voltage fluctuations such as a factory
  - e. Where there are motor vehicles or marine vessels
  - f. Where there is considerable atmospheric oil such as in cooking areas
  - g. Where there are machines generating electromagnetic radiation
  - h. Where the air contains acidic or alkaline steam or a vapour

#### Regarding wiring

- All wiring must be performed by an authorized electrician. Always consult your dealer about wiring. Never do it by yourself.
- Only use the dedicated power supply circuit provided for this air conditioner.

#### Also pay attention to operating noise.

- · Select the following kinds of location:
  - a. A place that can sufficiently withstand the weight of the air conditioner with less running noises and vibrations.
  - b. A place where warm airflow from the air outlet of the outdoor unit and operating noise do not cause a nuisance to neighbours.
- · Be sure there are no obstructions near the air outlet of the outdoor unit.
- · Obstructions may result in poor performance and increased operating noise. If abnormal noise occur, ask your dealer for advise.

#### System relocation

· Consult your DAIKIN dealer about remodelling and relocation.

This operation manual is for the following systems with standard control. If your installation has a customized control system, ask your DAIKIN dealer for the operation that corresponds your system. BFFORE INSTALLATION, CONTACT YOUR DAIKIN DEALER TO CONFIRM YOUR SYSTEM TYPE.

The system provides 3 operation modes,

, , ,	•				
	Cool remote controller	Operation modes			
Inverter series					
Air conditioner RXQ series	□ yes □ no				

#### ATTENTION-

• To protect the unit, turn on the main power switch 6 hours before operation for 5Hp only

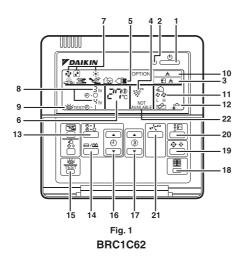






#### **■** Remote Controller





#### NOTE:

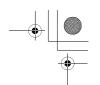
This manual describe only for BRC1C62.
For other remote control please see operation in manual that attach in remote set.

	ON/OFF button		TIMER MODE START/STOP button		
1	Press the button and the system will start. Press the	13	Refer to page 10.		
	button again and the system will stop.  OPERATION LAMP (RED)	14	TIMER ON/OFF button		
2	The lamp lights up during operation.		Refer to page 10.		
			INSPECTION/TEST OPERATION button		
3	DISPLAY "	15	This button is used only by qualified service persons for maintenance purposes.		
	It is impossible to changeover operation with the remote controller when this icon is displayed.		Do not use it in normal operation.		
	DISPLAY " 🤘 " (AIR FLOW FLAP)	16	PROGRAMMING TIME button		
4	Refer to page 9.		Use this button for programming "START and/or STOP" time.		
	DISPLAY " ← ← OPTION" (VENTILATION/AIR		TEMPERATURE SETTING button		
5	CLEANING)  This display shows that the total heat exchange and the air	17	Use this button for SETTING TEMPERATURE of the thermostat.		
	cleaning unit are in operation. (these are optional accessories)	18	FILTER SIGN RESET button		
6	DISPLAY " [ ] " (SET TEMPERATURE)	10	Refer to the operation manual attached to the indoor unit.		
	This display shows the set temperature.		FAN SPEED CONTROL button		
7	DISPLAY " & " " 한 " " ᆥ " (OPERATION MODE)	19	Press this button to select the fan speed, LOW or HIGH,		
'	This display shows the current OPERATION MODE.		of your choice.		
	DISPLAY " 3m " (PROGRAMMED TIME)		ODEDATION MODE OF FOTOD button		
	DISPLAY " 🖟 " (PROGRAMMED TIME)	20	OPERATION MODE SELECTOR button		
8	This display shows PROGRAMMED TIME of the system	20	Press this button to select OPERATION MODE.		
8	This display shows PROGRAMMED TIME of the system start or stop.				
	This display shows PROGRAMMED TIME of the system	20	Press this button to select OPERATION MODE.		
9	This display shows PROGRAMMED TIME of the system start or stop.  DISPLAY " TEST " (INSPECTION/TEST		Press this button to select OPERATION MODE.  AIR FLOW DIRECTION ADJUST button  Refer to page 9.  NON-FUNCTIONING DISPLAY		
9	This display shows PROGRAMMED TIME of the system start or stop.  DISPLAY " TEST " (INSPECTION/TEST OPERATION)  When the INSPECTION/TEST OPERATION BUTTON is		Press this button to select OPERATION MODE.  AIR FLOW DIRECTION ADJUST button  Refer to page 9.  NON-FUNCTIONING DISPLAY  If that particular function is not available, pressing the button may display the words "NOT AVAILABLE" for a few seconds. When running multiple units simultaneously, the "NOT		
	This display shows PROGRAMMED TIME of the system start or stop.  DISPLAY " TEST " (INSPECTION/TEST OPERATION)  When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in.  DISPLAY " (UNDER CENTRALIZED)	21	Press this button to select OPERATION MODE.  AIR FLOW DIRECTION ADJUST button  Refer to page 9.  NON-FUNCTIONING DISPLAY  If that particular function is not available, pressing the button may display the words "NOT AVAILABLE" for a few seconds.		
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9	This display shows PROGRAMMED TIME of the system start or stop.  DISPLAY " TEST "(INSPECTION/TEST OPERATION)  When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in.  DISPLAY " "(UNDER CENTRALIZED CONTROL)  When this display shows, the system in UNDER CENTRALIZED CONTROL).	21 22	Press this button to select OPERATION MODE.  AIR FLOW DIRECTION ADJUST button  Refer to page 9.  NON-FUNCTIONING DISPLAY  If that particular function is not available, pressing the button may display the words "NOT AVAILABLE" for a few seconds. When running multiple units simultaneously, the "NOT AVAILABLE" message will only be appear if none of the indoor units is equipped with the function. If even one unit is equipped with the function, the display will not appear.  DTE  ne sake of explanation, all indications are shown on the display in and 2 contrary to actual running situations.		
9	This display shows PROGRAMMED TIME of the system start or stop.  DISPLAY " TEST "(INSPECTION/TEST OPERATION)  When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in.  DISPLAY " " "(UNDER CENTRALIZED CONTROL)  When this display shows, the system in UNDER CENTRALIZED CONTROL.  DISPLAY " TAN SPEED).	21  22  • For tr Fig. 1 • If the unit n	Press this button to select OPERATION MODE.  AIR FLOW DIRECTION ADJUST button  Refer to page 9.  NON-FUNCTIONING DISPLAY  If that particular function is not available, pressing the button may display the words "NOT AVAILABLE" for a few seconds. When running multiple units simultaneously, the "NOT AVAILABLE" message will only be appear if none of the indoor units is equipped with the function. If even one unit is equipped with the function, the display will not appear.  DTE  the sake of explanation, all indications are shown on the display in and 2 contrary to actual running situations.  filter sign lamp lights up, clean the air filter as explained in the indoor nanual. After cleaning and reinstalling the air filter: press the filter sign		
9 10 11	This display shows PROGRAMMED TIME of the system start or stop.  DISPLAY " TEST "(INSPECTION/TEST OPERATION)  When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in.  DISPLAY " (UNDER CENTRALIZED CONTROL)  When this display shows, the system in UNDER CENTRALIZED CONTROL.  DISPLAY " (FAN SPEED).  The display shows the fan speed: "LOW" or "HIGH".	21  22  • For tr Fig. 1 • If the unit n	Press this button to select OPERATION MODE.  AIR FLOW DIRECTION ADJUST button  Refer to page 9.  NON-FUNCTIONING DISPLAY  If that particular function is not available, pressing the button may display the words "NOT AVAILABLE" for a few seconds. When running multiple units simultaneously, the "NOT AVAILABLE" message will only be appear if none of the indoor units is equipped with the function. If even one unit is equipped with the function, the display will not appear.  TE  TE  THE  THE  THE  THE  THE  THE		









### **Preparation Before Operation**

- Tips for saving energy
  - · Be careful not to cool the room too much. Keeping the temperature setting at a moderate level helps save energy.
  - Cover windows with a blind or a curtain. Blocking sunlight and air from outdoors increases the cooling effect.

Recommended temperature setting				
For cooling	26 to 28 °C			

#### ■ Operation range

If the temperature or the humidity is beyond the following conditions, safety devices may work and the air conditioner may not operate, or sometimes, water may drop from the indoor unit.

		OUTDOOR TEMPERATURE				
TEMPERATURE HUMIDITY				OUTDOOK TEMPERATURE		
DB	21 to 32 °C	80% or below (Long time operation in a humidity over 80% may cause condensation	DB	0 to 49 °C		
WB		on the unit and dripping.)				

DB: Dry bulb temperature WB: Wet bulb temperature

### **Useful Information**

Observe the following precautions to ensure the system operates properly.

 Set the room temperature appropriately. Take care not to cool the room excessively. Adjust the temperature so that everyone in the room is comfortable.





· Ventilate the room from time to time. Be sure to ventilate the room after using the air conditioner for a long time.





Do not leave the door or window open. The air will be released, and the effect of cooling will be reduced.





· Do not allow direct sunshine to enter the room during the cooling operation.

Hang a curtain or blind to the window to prevent direct sunshine.



Keep televisions, radios or stereo equipment at least 1 meter from the indoor unit or remote controller. Otherwise, picture

disturbance or noise may result.





· Use flow direction adjustment skillfully. Cold air collects toward the floor and hot air collects toward the ceiling. Therefore, for cooling, set the air flow horizontally Also, set the air flow so that it does not blow directly on your body. · Turn off the power when the air conditioner is not used for a long time.

With the power on, the air conditioner will consume several to several tends of watts of power (\*1)





#### NOTE

- \*1The power consumption while the equipment is stopped varies with the type of outdoor unit, etc. Consult your dealer for further details on power consumption.
- Do not use and place room heater under the indoor unit. Heat may deform the indoor unit of suction grille.



 Do not place things near the air outlet or air inlet. Such obstacles may lower the performance of the air conditioner or make it stop.



When the display shows " TIME TO CLEAN AIR FILTER), refer to the instruction manual of the indoor unit, and clean the air filter.



 Use timer operation effectively. It takes time for the room temperature to reach the set temperature. Therefore, use timer operation to start the air conditioner ahead of time.



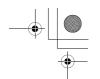








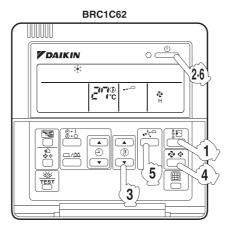




### **COOLING · FAN Operation**

This operation manual describes the explanation for a case in which the wired remote controller is used. When using the wireless remote controller, refer to the attached operation manual.

- Changeover cannot be made with a remote controller whose display shows " 🔼 " (CHANGEOVER UNDER CONTROL).
- When the display " Et al. " (CHANGEOVER UNDER CONTROL) flashes, refer to page 11.
- For protecting the mechanism, supply the power for 6 hours at first, then operate the air conditioner which is only for 5HP.



1. Press OPERATION MODE SELECTOR button several times and select the OPERATION MODE of your choice as follows.

COOLING Operation...... \* " FAN Operation...... \* \* "

2. Press ON/OFF button.

OPERATION lamp lights up and the system starts OPERATION.

#### Adjustment

- 3. Press TEMPERATURE SETTING button and program the setting temperature.
  - Each time this button is pressed, setting temperature rises 1°C.
    - Each time this button is pressed, setting temperature lowers 1°C.

#### NOTE:

- Set the temperature within the operation range shown in the table on page 6.
- The temperature cannot be set in the fan operation.
- 4. Press FAN SPEED CONTROL button.

High or Low fan speed can be selected.

 Press AIR FLOW DIRECTION ADJUST button. (only for FXCQ, FXFQ, FXHQ, FXAQ.FXFSQ) Refer to page 9 for details.

#### STOPPING THE SYSTEM

- 6. Press ON/OFF button once again.
  - OPERATION lamp goes off, and the system stops OPERATION.
  - The fan may keep on running for about 1 minute after operation stops.
     (To start the next operation smoothly.)

#### ATTENTION:

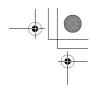
- Do not turn OFF power immediately after the unit stops.
  - Then, wait no less than 5 minutes. Water is leaking or there is something else wrong with the unit.
- When the operation is started again immediately after being stopped, when the operation mode is changed over, or when the TEMPERATURE SETTING button is pressed then returned soon, the air conditioner will start the operation automatically about 5 minutes later (because the air conditioner is controlled so that excessive load is not applied).









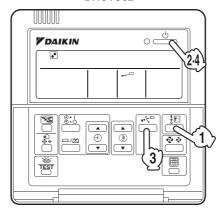


# **Program DRY Operation**

Program DRY is a function that alternates between weak cooling and stopping the unit to remove humidity from the air, in order to prevent the room temperature from dropping and becoming too cold.

- The microcomputer automatically controls the temperature and fan strength, so these cannot be set using the remote controller.
- This function is not available if the room temperature is 16°C or lower.





- 1. Press OPERATION MODE SELECTOR button several times and select "[4]" (PROGRAM DRY Operation).
- Press ON/OFF button.OPERATION lamp lights up and system starts OPERATION.

#### Adjustment

3. **Press AIR FLOW DIRECTION ADJUST button.** (only for FXCQ, FXFQ, FXHQ, FXAQ,FXFSQ) Refer to page 9 for details.

#### STOPPING THE SYSTEM

4. Press ON/OFF button again.

OPERATION lamp goes off, and the system stops OPERATION.

#### ATTENTION:

• Do not turn OFF power immediately after the unit stops. Then, wait on no less than 5 minutes. Water is leaking or there is something else wrong with the unit.









### **Adjusting the Air Flow Direction**

• Press the AIR FLOW DIRECTION button to adjust the air flow angle. (only for FXCQ, FXFQ, FXHQ, FXAQ,FXFSQ)

#### **BRC1C62**



1. Press the AIR FLOW DIRECTION ADJUST button to select the air direction as shown below.



The AIR FLOW FLAP display swings as shown left and the air flow direction continuously varies. (Automatic swing setting)



Press 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, microcomputer controls the air flow direction so it may be different from the display.

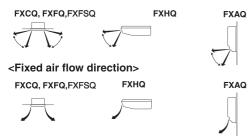
9		
Operation mode	Cooling	
Operation conditions	When room temperature is lower than the set temperature	
	When operating continuously at horizontal air flow direction	

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

- · Automatic
- The air flow flap adjusts its position itself.
- · Fixed air flow direction

The air flow direction can be fixed by the user.

#### <Automatic>



#### ATTENTION:

- The movable limit of the flap is changeable. Contact your DAIKIN dealer for details. (Only for FXCQ, FXFQ, FXHQ and FXAQ,FXFSQ.)
- Avoid operating in the horizontal direction "\*\*--\sum " which may cause dew or dust to settle on ceiling.







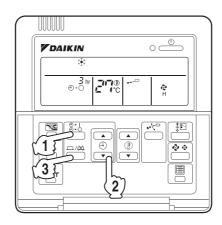




# **ON/OFF TIMER Operation**

- The timer is operated by the following two ways. Programming the stop time (④ ► ○) ....... The system stops operating after the time setting has elapsed. Programming the start time (④ \* | ) ........ The system starts operating after the time setting has elapsed.
- The timer can be programmed for a maximum of 72 hours.
- The start and the stop time can simultaneously be programmed.

#### **BRC1C62**



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..."④ ▶ ○"

For setting the timer start..."(4) > |"

2. Press the PROGRAMMING TIME button and set the time for stopping or starting the system.

- When this button is pressed, the time advances by 1 hour. **④** 
  - When this button is pressed, the time goes backward by 1 hour.

#### 3. Press the TIMER ON/OFF button.

The timer setting procedure ends. The display "④ ► ○ or ④ ► |" changes from flashing light to a constant light.

- 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:



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 then 1 hour later the system will start.









# **How to set Master Remote Controller**

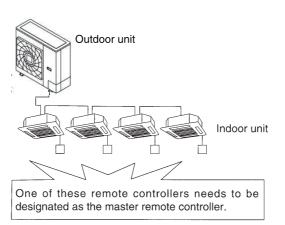
#### BRC1C62



#### Setting the master remote controller -

• When the system is installed as shown below, it is necessary to designate the master remote controller.

When one outdoor unit is connected with several indoor units.

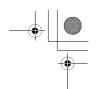


• The displays of slave remote controllers show " (CHANGEOVER UNDER CONTROL) and they automatically follow the operation mode directed by the master remote controller. (This symbol is not displayed in wireless remote controllers.)









#### How to designate the master remote controller

1.	Continuously press the OPERATION MODE SELECTOR button of the current master remote controller for 4 seconds
	The displays showing " CHANGEOVER UNDER CONTROL) of all slave remote controllers connected to
	the same outdoor unit flash.

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).

3. Press the OPERATION MODE SELECTOR button of the master remote controller (in which " E : " is not displayed) several times, and select the operation mode that you wish.

Every time the OPERATION MODE SELECTOR button is pressed, the indication is changed over in the sequence "fan"  $\rightarrow$  "dry"  $\rightarrow$  "cooling".

The indication in other slave remote controllers is changed over while following up the indication in the master unit.

#### In the case of wireless remote controllers

- 1. Continuously press the OPERATION MODE SELECTOR button of the current master indoor unit for 4 seconds. The timer lamp flashes in all indoor units connected to the same outdoor unit.
- 2. Press the OPERATION MODE SELECTOR button of the indoor unit that you wish to designate as the master indoor unit. A "beep" sound is issued, and the timer lamp turns off. This indoor unit is designated as the master unit.
- 3. Press the OPERATION MODE SELECTOR button of the master indoor unit several times, and select the operation mode that you wish.

Every time the OPERATION MODE SELECTOR button is pressed, the indication is changed over in the sequence "fan"  $\rightarrow$  "dry"  $\rightarrow$  "cooling".

The indication in other slave indoor unit is changed over while following up the indication in the master indoor unit.

#### Contents and functions of operation -

not displayed) is set to "cooling"



is displayed)

· The operation mode is changed over to the mode selected in the master remote controller.

#### Display in slave remote controllers

- 1. The set temperature selected in the same mode at the previous time is displayed.
- 2.The initial setting is displayed. (When the mode is set for the first time.)

Cooling: 28°C

· However, changeover to the fan operation and changeover from "cooling" to "dry" are available.

#### In the case of wireless remote controllers

When an operation mode different from the currently selected operation mode is selected in a slave remote controller, a long "beep" sound is issued to notify that the mode is in conflict.

2. When master remote controller (in which

"(	■太	"	is	not	displ	ayed)	is	set	to	"fan"
----	----	---	----	-----	-------	-------	----	-----	----	-------



Other slave remote controllers (in which

\_\_\_\_\_" is displayed)

• Only "fan" is available.

#### 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 the following if your unit is of the following control system type.

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.









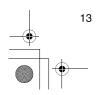


# **Trouble Shooting**

### These cases are not troubles.

The following cases are not air conditioner troubles but have some reasons. You may just continue using it.

Case	Explanation
Does not operate at all.	Check if the fuse has blown. Set power switch to off.  Check if breaker has worked. 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.)  When the power is interrupted. Wait until the power is recovered, then operate the air conditioner again. The air conditioner automatically resumes operation in about 3 minutes. You should just wait for a while.
When ON/OFF button was pressed soon after operation was stopped.     When the mode was reselected.	This is to protect the air conditioner. You should wait for about 5 minutes. (The microcomputer is preparing for operation. Wait for about 10 minutes. )
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.  Electronic expansion valve Controls the flow rate of the gas (refrigerant) flowing inside the indoor unit.
A continuos low "Shah" sound is heard when the system is in COOLING OPER-ATION or at a stop.	When the drain pump (optional accessories) is in operation, this noise is heard.
A low "Sah", "Choro-choro" sound is heard while an indoor unit has 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.
A continuous low "Shuh" sound is heard when the systems is in COOLING.	This is the sound of refrigerant gas flowing through both indoor and out-door units.
A "Shuh" sound which is heard at the start or immediately after the stop of operation.	This is the noise of refrigerant caused by flow stop and flow change.
When the tone of operating noise changes.	This noise caused by the change of frequency.
A continuous "shuh" sound generated during operation or immediately after the operation is started or stopped.	This sound indicates that the valve for the refrigerant bypass is in operation.
The outdoor unit emits water or steam.	<ul> <li>In COOLING or DRY mode</li> <li>Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.</li> </ul>
Mists come out of the indoor unit.	<ul> <li>This happens when the air in the room is cooled into mist by the cold air flow during cooling operation.</li> <li>If the inside of an indoor unit is extremely contaminated, the temperature distribution inside a room becomes uneven. It is necessary to clean the inside of the indoor unit. Ask your DAIKIN dealer for details on cleaning the indoor unit. This operation requires a qualified service person.</li> </ul>
The indoor unit gives out odour.	■ This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the air flow.  (If this happens, we recommend you to have the indoor unit washed by a technician. Consult the service shop where you bought the air conditioner.)









### **Trouble Shooting**

Case	Explanation
The outdoor fan rotates while the air conditioner is not in operation.	<ul> <li>After operation is stopped:</li> <li>The outdoor fan continues rotating for another 60 seconds for system protection.</li> <li>While the air conditioner is not in operation:</li> <li>When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.</li> </ul>
The operation stopped suddenly. (OPERATION lamp is on)	<ul> <li>For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation.</li> <li>It automatically resumes operation in about 3 minutes.</li> </ul>
" is displayed on the remote controller, and the displayed contents flash for several seconds when an operation button is pressed.  When three short "beep" sounds are issued in the case of wireless remote controller.	The air conditioner is controlled by the central equipment.     Flashing of the displayed contents indicates that the remote controller is invalid for control.
COOL cannot be changed over.  • When the display shows "□☆」" (CHANGEOVER UNDER CONTROL), it shows that this is a slave remote controller.	Refer to page 11.     This is because cool changeover is controlled by the cool changeover remote control switch. Ask your Daikin dealer where the remote control switch is installed.
When the cool changeover remote control switch is installed and the display shows "	This is because crankcase heater is warming the compressor even while the outdoor unit is stopped so that the compressor can start smoothly smoothly. Only 5Hp having crankcase heater, In 4HP crankcase heater is not available.
The liquid crystal of the remote controller shows "중문" immediately after the power supply is turned on.	This shows that the remote controller is in normal condition. This continuoues for one minute.
The compressor in the outdoor unit does not stop after a short HEATING operation.	This is to prevent oil and refrigerant from remaining in the compressor. The unit will stop after 5 to 10 minutes.
The inside of an outdoor unit is warm when the unit has stopped	This is because the crankcase heater is warming the compressor even while the outdoor unit is stopped so that the compressor can start smoothly.(Only for 5HP)
When the air conditioner has not been used (the power has been off) for a long time.	For protecting the mechanism, supply the power for 6 hours at first, then operate the air conditioner.(Only for 5HP)
Warm air exits the unit even though it is off. You can feel hot air coming out of the unit.	Multiple units are operating on the same system, so if a unit in another room is operating, some refrigerant will flow through the stopped units, too.

#### Call the service shop immediately.



- When an abnormality (such as a burning smell) occurs, stop operation and turn the breaker OFF. Continued operation in an abnormal condition may result in troubles, electric shocks or fire. Consult the service shop where you bought the air conditioner.
- Do not attempt to repair or modify the air conditioner by yourself. Incorrect work may result in electric shocks or fire. Consult the service shop where you bought the air conditioner.

If one of the following symptoms takes place, call the service shop immediately.

- The power cord is abnormally hot or damaged.
- An abnormal sound is heard during operation.
- The safety breaker, a fuse, or the earth leakage breaker cuts off the operation frequently.
- A switch or a button often fails to work properly.
- There is a burning smell.
- Water leaks from the indoor unit.



Turn the breaker OFF and call the service shop.

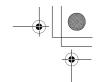
■ After a power failure	■ Lightning
The air conditioner automatically resumes operation	If lightning may strike the neighbouring area, stop oper-
in about 3 minutes. You should just wait for a while.	ation and turn the breaker OFF for system protection.











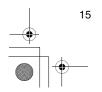
# **Check the following before requesting service**

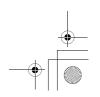
Symptom	Action and contact
Safety equipment such as fuses, circuit breakers, leakage breaker, etc. are set off occasionally.	Do not set power switch to on.
Operating switch function is not secure.	Set power switch to off.
Water leaks from the air conditioner.	Stop operation.
If the display " " (INSPECTION), UNIT No." and the OPERATION lamp flash and "MALFUNCTION CODE" appears.	Inform your dealer of the contents of the display on the remote contoller.  OPERATION lamp  INSPECTION  INDOOR UNIT No. in which a malfunction occurs  MALFUNCTION CODE

Symptom	Cause	Remedy
The machine does not work at all.	Blown fuse or open breaker	Replace the fuse or close the breaker.
	Power outage	If the main power supply is turned off during operation, operation will restart automatically after power turns back again.
The machine runs but stops soon.	Blocked air inlet or air outlet of the indoor or outdoor unit	Remove the obstacle.
The machine does not work properly.	Blocked air inlet or air outlet of indoor or outdoor unit	Remove the obstacle.
	Improper temperature setting	See page 7.
	Low fan speed setting	See page 7.
	Improper air flow direction	See page 9.
	Window or door open	Close.
	Direct sunshine	Put up a curtain or blind over the window.
	Too many people in the room	
	Too many heat sources in the room	_
	If the air filter clogged.	Refer to the instruction manual of the indoor unit, and clean the air filter.

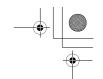
#### NOTE

• Check the above items, and if the problem still cannot be fixed, contact your dealer for repair, stating the symptom(s) and the model name.









### **After-Sales Service**

### **A** CAUTION

Do not disassemble, modify or repair the air conditioner by yourself.
 Improper disassembly, modification or repair may cause water leakage, electric shock or fire.
 Ask your dealer for such servicing.



Do not move and install the air conditioner by yourself.
 Improper reinstallation may cause water leakage, electric shock or fire.
 Ask your dealer for reinstallation.



Objects which can start fire are strictly prohibited if the refrigerant leaks.
 The refrigerant used in the air conditioner is safe, and does not leak usually.
 If the refrigerant leaks into the room and becomes contact with burning appliances such as fan heater, stove and cooker, however, harmful gases may be generated.
 Turn off burning appliances, ventilate the room, and contact your dealer.
 After asking for repair of refrigerant leakage, confirm to the service personnel that the leaking positions are repaired securely, then start the operation.



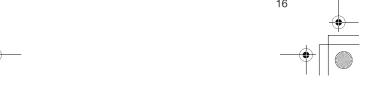
#### We recommend periodical maintenance

In certain operating conditions, the inside of the air conditioner may get foul after several seasons of use, resulting in poor performance. It is recommended to have periodical maintenance by a specialist aside from regular cleaning by the user. For specialist maintenance, contact the service shop where you bought the air conditioner. The maintenance cost must be born by the user.

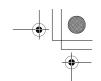




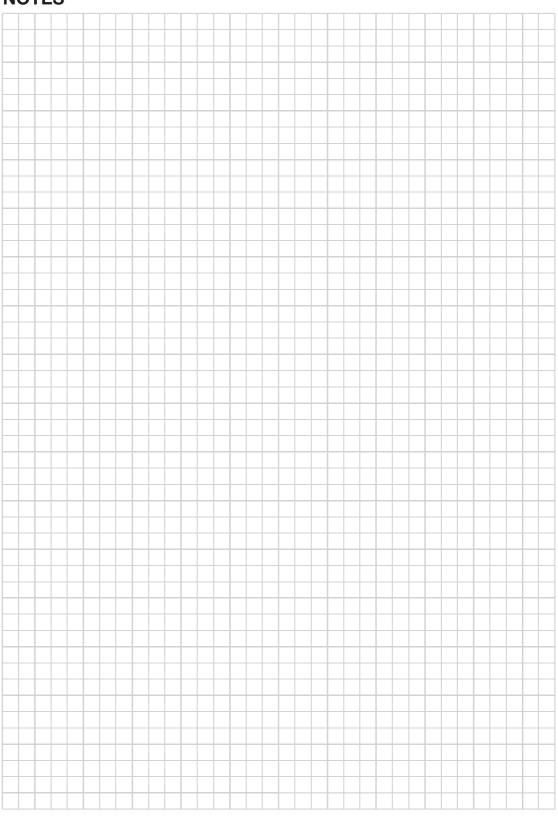






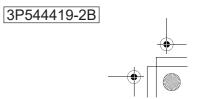


### NOTES











### **OPERATION MANUAL**

# **171** System Air Conditioner

RXMQ6ARV1 RXMQ8ARY1 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.

### **Operation manual**

Co	<b>Contents</b> Pag			
1.	Defi	nitions	1	
	1.1	Meaning of warnings and symbols	1	
	1.2			
	1.3			
2.	Intro	oduction	6	
		General information		
		System layout		
3.		ore operation		
4.		r interface		
5.		eration range		
6.	•	eration procedure		
0.	6.1	Cooling, fan only, automatic operation		
	0.0	and dry operation		
	6.2 6.3	Program dry operation		
	6.4	Adjusting the air flow direction Setting the master user interface		
	6.5	Precautions for group control system or	ອ	
	0.5	two user interface control system	10	
7	Eno	-		
		rgy saving and optimum operation		
8.		ntenance	11	
	8.1	Maintenance after a long stop period	44	
	0.0	(e.g., at the beginning of the season)	11	
	8.2	Maintenance before a long stop period (e.g., at the end of the season)	44	
^	C		1 1	
9.	•	nptoms that are not air conditioner	40	
		bles		
	9.1	The system does not operate	12	
	9.2	Fan operation is possible, but cooling do not work	10	
	9.3	The fan strength does not correspond	12	
	9.3	to the setting	12	
	9.4	The fan direction does not correspond	12	
	0.7	to the setting	12	
	9.5	White mist comes out of a unit		
	9.6			
	0.0	or "U5" and stops, but then restarts after		
		a few minutes		
	9.7	Noise of air conditioners		
	9.8	Dust comes out of the unit	13	
	9.9	The units can give off odours	13	
		The outdoor unit fan does not spin		
		l The display shows " $ ot E  ot E$ "	13	
	9.12	2 The compressor in the outdoor unit		
		does not stop	13	
	9.13	The inside of an outdoor unit is warm		
		even when the unit has stopped		
		Does not cool very well		
		ubleshooting		
11	.Afte	r-sales service	14	
	11.1	After-sales service	14	
		Shortening of "maintenance cycle" and		
		"replacement cycle" needs to be		
		considered in following situations	15	
	11.3	3 Malfunction codes	16	

#### 1. Definitions

#### 1.1 Meaning of warnings and symbols

Warnings in this manual are classified according to their severity and probability of occurrence.



#### **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.



#### **NOTICE**

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



#### **INFORMATION**

This symbol identifies useful tips or additional information.

Some types of danger are represented by special symbols:



Electric current.



#### Danger of burning and scalding.

#### 1.2 Meaning of used terms

#### Installation manual:

Instruction manual specified for a certain product or application, explaining how to install, configure and maintain it.

#### **Operation manual:**

Instruction manual specified for a certain product or application, explaining how to operate it.

#### **Maintenance instructions:**

Instruction manual specified for a certain product or application, which explains (if relevant) how to install, configure, operate and/or maintain the product or application.

#### Dealer:

Sales distributor for products as per the subject of this manual.

#### Installer:

Technical skilled person who is qualified to install products as per the subject of this manual.

#### User:

Person who is owner of the product and/or operates the product.

#### Service company:

Qualified company which can perform or coordinate the required service to the unit.

#### Applicable legislation:

All international, European, national and local directives, laws, regulations and/or codes which are relevant and applicable for a certain product or domain.

#### **Accessories:**

Equipment which is delivered with the unit and which needs to be installed according to instructions in the documentation.

#### **Optional equipment:**

Equipment which can optionally be combined to the products as per the subject of this manual.

#### Field supply:

Equipment which needs to be installed according to instructions in this manual, but which are not supplied by Daikin.

#### 1.3 Safety Precautions

To gain full advantage of the air conditioner's functions and to avoid malfunction due to mishandling, we recommend that you read this instruction manual carefully before use.

Read the precautions thoroughly to avoid misuse of the equipment.

This air conditioner is classified under "appliances not accessible to the general public".

- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- There are two kinds of safety precaution and tips listed in the following.

- **WARNING** ..... Failure to follow these instructions properly may result in personal injury or loss of life.
  - This unit contains electrical and hot parts.
  - Before operating the unit, be sure the installation has been carried out correctly by an installer. If you feel unsure about operation, contact your installer for advice and information.

- CAUTION ...... Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.
- After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.

### — /!\ WARNING −

- · Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause
  - malfunctions, smoke or fire when making contact with electrical parts.
- Consult your local dealer about installation

Doing the work yourself may result in water leakage, electric shocks or fire hazards.

- Do not insert fingers, rods or other objects into the air inlet or outlet.
  - When the fan is rotating at high speed, it will cause injury.
- Never let the indoor unit or the user interface

It may cause an electric shock or a fire.

- Do not put user interface in risk to wet place. If water into controller, risk to electric leakage and cause to electronics parts damaged.
- Be sure to use fuses with the correct ampere reading.

Do not use improper fuses, copper or other wires as a substitute, as this may result in electric shock, fire, injury or damage to the unit.

- Consult your local dealer regarding what to do in case of refrigerant leakage.
  - When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of leakage. Otherwise, this may lead to an accident due to oxygen depletion.
- Beware of fire in case of refrigerant leakage.
   If the air conditioner is not operating correctly,
   i.e. not generating cool air, refrigerant leakage could be the cause.

Consult your dealer for assistance.

The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas. Do not longer use air conditioner until a qualified service person confirms that the leakage has been repaired.

- Do not use the air conditioner until a service person confirms that the portion where the refrigerant leaks is repaired.
- Turn off any combustible heating devices, ventilate the room and contact the dealer where you purchased the unit.
- Improper installation or attachment of equipment or accessories could result in electric shock, short circuit, leaks, fire or other damage to the equipment.
- Consult your local dealer regarding modification, repair and maintenance of the air conditioner.

Improper workmanship may result in water leakage, electric shocks or fire hazards.

 Consult your local dealer regarding relocation and reinstallation of the air conditioner.

Improper installation work may result in leakage, electric shocks or fire hazards.

 Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.

Otherwise, an electric shock and injury may

Do not operate the air conditioner with wet hands.

An electric shock may result.

 Do not wash the air conditioner with water, as this may result in electric shocks or fire.

- Be sure to install an earth leakage breaker.
   Failure to install an earth leakage breaker may result in electric shocks or fire.
   In order to avoid electric shock or fire, make sure that an earth leak detector is installed.
- 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 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 use the product in the atmosphere contaminated with oil vapour, such as cooking oil or machine oil vapour.
   Oil vapour may cause crack damage, electric shocks, or fire.
- Do not install the air conditioner at any place where there is a danger of flammable gas leakage.

In the event of a gas leakage, build-up of gas near the air conditioner may result in fire hazards.

 Contact professional personnel about attachment of accessories and be sure to use only accessories specified by the manufacturer.

If a defect results from your own workmanship, it may result in water leaks, electric shock or fire.

 Do not use the product in places with excessive oily smoke, such as cooking room, or in places with flammable gas, corrosive gas, or metal dust.

Using the product in such places may cause fire or product failures.

- When the air conditioner is malfunctioning (giving off a burning odour, etc.) turn off power to the unit and contact your local dealer.
   Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.
- Do not place flammable sprays or operate spray containers near the unit as this may result in fire.
- Do not clean the product with organic solvents such as paint thinner.

The use of organic solvents may cause crack damage to the product, electric shocks, or fire.

 Be sure to use a dedicated power supply for the air conditioner.

The use of any other power supply may cause heat generation, fire, or product failures.

• Consult your dealer regarding cleaning the inside of the air conditioner.

Improper cleaning may cause breakage of plastic parts, water leakage and other damage as well as electric shocks.

Be sure the air conditioner is electrically earthed.

In order to avoid electric shock, make sure that the unit is grounded and that the earth wire is not connected to gas or water pipe, lightning conductor or telephone earth wire.

- Do not place a flower vase or anything containing water on the unit. Water may enter the unit, causing an electric shock or fire.
- Avoid placing the controller in a spot which can be splashed with water. Water entering the machine may cause an electric leak or may damage the internal electronic parts.
- Be aware that prolonged, direct exposure to cool air from the air conditioner, or to air that is too cool can be harmful to your physical condition and health.

### - / CAUTION -

- Do not remove the outdoor unit's fan guard.

  The guard protects against the unit's high speed fan, which may cause injury.
- Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units.

Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.

- To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.
- Do not place flammable sprays near the unit as this can cause explosions.
- Do not place appliances that produce naked flames in places exposed to the air flow from the unit as this may impair combustion of the burner.
- Do not place burners or heaters in places exposed to the air flow from the unit as this may impair combustion of the burner or heater.

- Do not place heaters directly below the unit, as resulting heat can cause deformation.
- Do not allow a child to mount on the outdoor unit or avoid placing any object on it.
   Falling or tumbling may result in injury.
- Do not block air inlets or outlets.
   Impaired air flow may result in insufficient performance or trouble.
- Arrange the drain hose to ensure smooth drainage.

Imperfect drainage may cause wetting of the building, furniture etc.

- Be sure that children, plants or animals are not exposed directly to airflow from the unit, as adverse effects may ensue.
- Arrange the drain hose to ensure smooth drainage.

Imperfect drainage may cause wetting.

- Do not wash air conditioner or user interface, causing an electric shock or fire.
- Do not put flammable containers, such as spray cans, within 1 m from the blow-off mouth.

The containers may explode because the warm air output of the outdoor unit will affect them.

Arrange the drain to ensure complete drainage.

If proper drainage from the outdoor drain pipe does not occur during air conditioner operation, there could be a blockage due to dirt and debris build-up in the pipe.

This may result in a water leakage from the indoor unit. Under these circumstances, stop air conditioner operation and consult your dealer for assistance.

- The appliance is not intended for use by unattended young children or infirm persons.
   Impairment of bodily functions and harm to health may result.
- Children should be supervised to ensure that they do not play with the unit or its user interface.

Accidental operation by a child may result in impairment of bodily functions and harm health.

 To avoid injury, do not touch the air inlet or aluminium fins of the unit.

These fins are sharp and could result in cutting injuries.

Never touch the internal parts of the controller.

Do not remove the front panel. Touching certain internal parts will cause electric shocks and damage to the unit. Please consult your dealer about checking and adjustment of internal parts.

 Do not leave user interface wherever there is a risk of wetting.

If water gets into the remote controller there is a risk of electrical leakage and damage to electronic components.

 Turn off the main power switch when the air conditioner is not to be used for prolonged periods.

When the main power switch is left on, some electric power (watts) is still consumed even if the air conditioner is not operating. Therefore, switch off the main power switch to save energy. When resuming operation, to ensure smooth running, turn on the main power switch 6 hours before operating the air conditioner again.

 Watch your steps at the time of air filter cleaning or inspection.

High-place work is required, to which utmost attention must be paid.

If the scaffold is unstable, you may fall or topple down, thus causing injury.

- Take care of scaffolding and exercise caution when working high above ground level.
- Do not operate with the control panel lid open.

If water gets inside the panel, it may result in equipment failure or electric shock.

Do not sit or place objects on the outdoor unit.

Falling yourself or objects could cause injury.

• Do not let children play on or around the outdoor unit.

If they touch the unit carelessly, injury may be caused.

• Never operate user interface buttons with hard, pointed objects.

This may result in remote controller damage.

- Do not pull or twist user interface cord. This may cause malfunctioning.
- Do not use the air conditioner for purposes other than those for which it is intended.
   Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the

object concerned.

 After prolonged use, check the unit stand and its mounts for damage.

If left in a damaged condition, the unit may fall and cause injury.

 Do not place items which might be damaged by moisture under the indoor unit.

Condensation may form if the humidity is above 80%, if the drain outlet is blocked or the filter is polluted.

• Ensure that user interface is not exposed to direct sunlight.

This will cause discoloration of the LCD display with resulting loss of readability.

• Do not wipe the controller panel with benzene or other organic solvent.

This will cause discoloration and/or peeling. If the panel needs cleaning, use a damp cloth with some water-diluted neutral detergent. Wipe with a dry cloth afterwards.

 Do not operate the air conditioner when using a room fumigation type insecticide.
 Fumigation chemicals deposited in the unit could endanger the health of those who are hypersensitive to touch chemicals.

#### **Installation Site**

Regarding places for installation

- Install the air conditioner in a well-ventilated place that is free of obstructions.
- Do not use the air conditioner in the following kinds of places:
  - a. Where there is considerable use of mineral oil such as cutting oil.
  - b. Where there is much salt such as a beach area.
  - c. Where there is sulphur gas such as in a hot spring resort.
  - d. Where there are considerable voltage fluctuations such as a factory.
  - e. Where there are motor vehicles or marine vessels.
  - f. Where there is considerable atmospheric oil such as in cooking areas.
  - g. Where there are machines generating electromagnetic radiation.
  - h. Where the air contains acidic or alkaline steam or a vapour.

#### Wiring

All wiring must be performed by an authorized electrician.

Always consult your dealer about wiring. Never do it by yourself.

 Only use the dedicated power supply circuit provided for this air conditioner.

#### Also pay attention to operating noise.

- · Select the following kinds of location:
  - a. A place that can sufficiently withstand the weight of the air conditioner with less running noises and vibrations.
  - b. A place where warm airflow from the air outlet of the outdoor unit and operating noise do not cause a nuisance to neighbours.
- Be sure there are no obstructions near the air outlet of the outdoor unit.
- Obstructions may result in poor performance and increased operating noise.
   If abnormal noise occur, ask your dealer for advise.
- Make sure that the piping is heat insulated.
  If the piping is frozen and broken, scalding or
  water leakage may result.
  Consult your installer.

#### **System relocation**

Consult your Daikin about remodelling and relocation.

#### 2. Introduction

#### 2.1 General information

The indoor unit part of VRV cooling system can be used for cooling applications. The type of indoor unit which can be used depends on the outdoor units series.



#### NOTICE

For future modifications or expansions of your system:

A full overview of allowable combinations (for future system extensions) is available in technical engineering data and should be consulted. Contact your installer to receive more information and professional advice.

In general following type of indoor units can be connected to a VRV cooling system (not exhaustive list, depending on outdoor unit model and indoor unit model combinations):

VRV direct expansion indoor units (air to air applications).

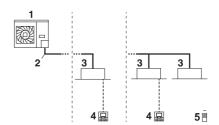
Combination of VRV direct expansion indoor units is allowed.

For more specifications, see technical engineering data.

#### 2.2 System layout

Your VRV series outdoor unit can be one of following models:

RXMQ: Single continuous cooling model. Depending on the type of outdoor unit which is chosen, some functionality will or will not exist. It will be indicated throughout this operation manual when certain features have exclusive model rights or not.



- 1 VRV outdoor unit
- 2 Refrigerant piping
- 3 VRV direct expansion indoor unit
- **4** User interface (dedicated depending on indoor unit type)
- 5 User interface (wireless, dedicated depending on indoor unit type)

### 3. Before operation

This operation manual is for the following systems with standard control. Before initiating operation, contact your dealer for the operation that corresponds to your system type and mark. If your installation has a customized control system, ask your dealer for the operation that corresponds to your system.

Operation modes (depending on indoor unit type):

- " \* " Cooling (air to air).
- " 🗫 " Fan only operation (air to air).
- " I Dry operation.
- " Automatic operation.

Dedicated functions exist depending on the type of indoor unit, refer to dedicated installation/operation manual for more information.

### 4. User interface

This operation manual will give a non-exhaustive overview of the main functions of the system.

Detailed information on required actions to achieve certain functions can be found in the dedicated installation and operation manual of the indoor unit.

Refer to the operation manual of the installed user interface.

### 5. Operation range

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

	*
Outdoor temperature	0~52°C DB
Indoor temperature	21~32°C DB 14~25°C WB
Indoor humidity	≤80% <sup>(a)</sup>

(a) To avoid condensation and water dripping out of the unit. If the temperature or the humidity is beyond these conditions, safety devices may be put in action and the air conditioner may not operate.

Above operation range is only valid in case direct expansion indoor units are connected to the VRV system.

### 6. Operation procedure

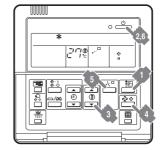
- Operation procedure varies according to the combination of outdoor unit and user interface.
   Read the chapter "3. Before operation".
- To protect the unit, turn on the main power switch 6 hours before operation.
   And do not turn off the power supply during the air conditioning season because of 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, fan only, automatic operation and dry operation

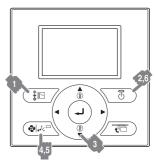
- The operation mode cannot be changed with the remote controller whose display shows " . " (changeover under centralized control). Change the operation mode with user interface whose display does not show " ...".
- When the display " L. " (changeover under centralized control) flashes, refer to "6.4 Setting the master user interface".
- The air flow rate may adjust itself depending on the room temperature or the fan may stop immediately. This is not a malfunction.

#### Starting the system

#### **BRC1C62**



#### **BRC1E62**



- Press the operation mode selector button several times and select the operation mode of your choice.
  - " 🗱 " Cooling operation
  - " 🍫 " Fan only operation
  - " I Dry operation
  - " (A) " Automatic operation.
- Press the ON/OFF button.

  The operation lamp lights up and the system starts operation.

#### **ADJUSTMENT**

For adjustment the desired temperature, fan speed and air flow direction (only for the remote controller, follow the procedure shown below).

Press the temperature setting button.

#### For BRC1C62



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

#### For BRC1E62



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

#### NOTE T

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

#### For BRC1C62

- Press the fan speed control button and select the fan speed of your preference.
- Press air flow direction adjust button.

  Refer to the chapter "6.3 Adjusting the air flow direction" for details.

#### For BRC1E62

Press air flow setting button.



 To select air volume or direction setting, press " ◀ ▶" buttons.



 With air volume selected, using the "▼▲" buttons.



 With direction selected, using the "▼▲" buttons.

#### Stopping the system

Press the ON/OFF button once again.
The operation lamp goes off and the system stops operation.



#### **NOTICE**

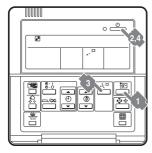
- Do not turn off the power immediately after the unit stops, but wait for at least 5 minutes.
- The system need at least 5 minutes for residual operation of drain pump device.
   Turning off the power immediately will cause water leak or trouble.

#### 6.2 Program dry operation

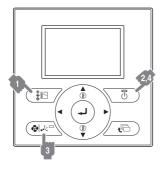
- The function of this program is to decrease the humidity in your room with minimal temperature decrease (minimal room cooling).
- The microcomputer automatically determines temperature and fan speed (cannot be set by the user interface).
- The system does not go into operation if the room temperature is low (<20°C).</li>

#### Starting the system





#### **BRC1E62**



- Press the operation mode selector button several times and select " " (program dry operation).
- Press the ON/OFF button of the user interface. The operation lamp lights up and the system starts operating.
- Press the air flow direction adjust button (only for double-flow, multi-flow, corner, ceiling-suspended and wall-mounted).

  Refer to "6.3 Adjusting the air flow direction".

#### Stopping the system

Press the ON/OFF button of the user interface once again. The operation lamp goes off and the system stops operating.

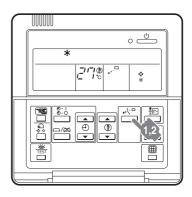


#### **NOTICE**

Do not turn off power immediately after the unit stops, but wait for at least 5 minutes.

### 6.3 Adjusting the air flow direction

#### For BRC1C62



• Press the air flow direction 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)

Press the air flow direction adjust button to select the air direction of your choice.

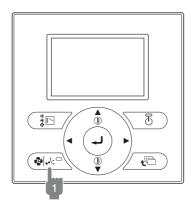


The air flow flap display stops swinging and the air flow direction is fixed.

(Fixed air flow direction setting)



#### For BRC1E62



#### Press air flow setting button



To select air volume or direction setting, press " ◀ ▶ " buttons.



With direction selected, using the "▼▲" buttons.

#### Movement of the air flow flap



Double-flow+multi-flow units





Corner units





Ceiling-suspended units





Wall-mounted units

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

#### **COOLING**

- When the room temperature is lower than the set temperature.
- 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 user interface indication will also change.

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

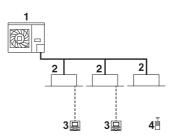
- The air flow flap itself adjusts its position.
- The air flow direction can be fixed by the user. Automatic " $\sqrt{\phantom{a}}$ " or desired position " $\sqrt{\phantom{a}}$ ".



#### **NOTICE**

- The movable limit of the flap is changeable. Contact your dealer for details. (only for double-flow, multi-flow, corner, ceiling-suspended and wallmounted).
- Avoid operating in the horizontal direction " $_{-}$ - $^{\square}$ ". It may cause dew or dust to settle on the ceiling or flap.

#### Setting the master user interface



- 1 VRV outdoor unit VRV direct expansion
- 2 indoor unit
- 3 User interface (dedicated depending on indoor unit type)
- 4 User interface (wireless, dedicated depending on indoor unit type)

When the system is installed as shown in the figure above, it is necessary to designate one of the user interfaces as the master user interface.

The displays of slave user interfaces show " \bigsize \text{...}" (changeover under centralized control) and slave user interfaces automatically follow the operation mode directed by the master user interface.

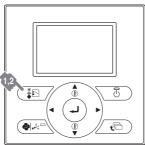
Only the master user interface can select cooling or fan only mode.

#### How to designate the master user interface

#### **BRC1C62**







### In case only VRV indoor units are connected to the VRV system:

- Press the operation mode selector button of the controller that you wish to designate as the master user interface. Then designation is completed.

This user interface is designated as the master user interface and the display showing " Law " (changeover under centralized control) vanishes. The displays of other user interfaces show " Law " (changeover under centralized control).

# 6.5 Precautions for group control system or two user interface control system

This system provides two other control systems beside individual control system (one user interface controls one indoor unit). Confirm the following if your unit is of the following control system type:

#### Group control system

One user interface controls up to 16 indoor units. All indoor units are equally set.

#### · Two user interface control system

Two user interfaces control one indoor unit (in case of group control system, one group of indoor units). The unit is individually operated.



#### **NOTICE**

Contact your dealer in case of changing the combination or setting of group control and two user interface control systems.



#### **INFORMATION**

For another user interfaces refer to the operation manual of the operation procedure user interface.

# 7. Energy saving and optimum operation

Observe the following precautions to ensure the system operates properly.

- Adjust the air outlet properly and avoid direct air flow to room inhabitants.
- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling.
- Prevent direct sunlight from entering a room during cooling operation by using curtains or blinds.
- Ventilate often.

Extended use requires special attention to ventilation.

- Keep doors and windows closed. If the doors and windows remain open, air will flow out of your room causing a decrease in the cooling effect.
- Be careful not to cool too much.
   To save energy, keep the temperature setting at a moderate level.
- 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.
- 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 consumes electricity. Before restarting the unit, turn on the main power supply switch 6 hours before operation to ensure smooth running. (Refer to "Maintenance" in the indoor unit manual.)
- When the display shows " (time to clean the air filter), ask a qualified service person to clean the filters. (Refer to "Maintenance" in the indoor unit manual.)
- Keep the indoor unit and user interface at least 1 m away from televisions, radios, stereos, and other similar equipment. Failing to do so may cause static or distorted pictures.
- Do not place items under the indoor unit, they may be damaged by water.
- Condensation may form if the humidity is above 80% or if the drain outlet gets blocked.

Your system is equipped with advanced energy saving functionality. Depending on the priority emphasis can be put on energy saving or comfort level. Several parameters can be selected, resulting in the optimal balance between energy consumption and comfort for your particular application.

Several patterns are available and roughly explained below. Contact your installer or dealer for advice or to modify the parameters to the needs of your building.

Detailed information is given for the installer in the installation manual. He can help you to realize the best balance between energy consumption and comfort.

#### 8. Maintenance



#### CAUTION

Pay attention to the fan. It is dangerous to inspect the unit while the fan is running.

Be sure to turn off the main switch and to remove the fuses from the control circuit located in the outdoor unit.

# 8.1 Maintenance after a long stop period (e.g., at the beginning of the season)

- Check and remove everything that might be blocking inlet and outlet vents of indoor units and outdoor units.
- Clean air filters and casings of indoor units.<sup>(b)</sup>
  Refer to the operation manual supplied with the
  indoor units for details on how to proceed and
  make sure to install for details on how to
  proceed and make sure to install cleaned air
  filters back in the same position.
- Turn on the power at least 6 hours before operating the unit in order to ensure smoother operation. As soon as the power is turned on, the user interface display appears.
- (b) Contact your dealer or maintenance person to clean air filters and casings of the indoor unit. Maintenance tips and procedures for cleaning are provided in the installation/operation manuals of dedicated indoor units.

# 8.2 Maintenance before a long stop period (e.g., at the end of the season)

- Let the indoor units run in fan only operation for about half a day in order to dry the interior of the units.
  - Refer to "6.1 Cooling, fan only, automatic operation and dry operation".
- Turn off the power. The user interface display disappears.
- Clean air filters and casings of indoor units.
   Refer to the operation manual supplied with the indoor units for details on how to proceed and make sure to install cleaned air filters back in the same position.

# 9. Symptoms that are not air conditioner troubles

Following symptoms are not air conditioner troubles:

#### 9.1 The system does not operate

- The air conditioner does not start immediately after the ON/OFF button on the user interface is pressed. 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.
  - The same starting delay occurs after the operation mode selector button was used.
- If "Under Centralized Control" is displayed on the user interface and pressing the operation button causes the display to blink for a few seconds indicating that the central device is controlling the unit. The blinking display indicates that the user interface cannot be used.
- The system does not start immediately after the power supply is turned on. Wait one minute until the microcomputer is prepared for operation.

## 9.2 Fan operation is possible, but cooling do not work

Immediately after the power is turned on.
 The microcomputer is getting ready to operate and is performing a communication check with all indoor units. Please wait 12 minutes (max.) till this process is finished.

# 9.3 The fan strength does not correspond to the setting

 The fan speed does not change even if the fan speed adjustment button is pressed. This is to prevent cold air blowing directly on occupants of the room.

# 9.4 The fan direction does not correspond to the setting

 The fan direction does not correspond with the user interface display. The fan direction does not swing. This is because the unit is being controlled by the microcomputer.

#### 9.5 White mist comes out of a 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
  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.

# 9.6 The user interface display reads "U4" or "U5" and stops, but then restarts after a few minutes

 This is because the user interface is intercepting noise from electric appliances other than the air conditioner. The noise prevents communication between the units, causing them to stop.
 Operation automatically restarts when the noise ceases.

#### 9.7 Noise of air conditioners

- 1 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 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.

#### 2 Indoor unit, outdoor unit

- A continuous low hissing sound is heard when the system is in cooling 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.
   This is the noise of refrigerant caused by flow stop or flow change.

#### 3 Outdoor unit

- When the tone of operating noise changes.
   This noise is caused by the change of frequency.
- Treble clef without operation.
   This noise from compressor pre-heat operation to prevent compressor damage when start operation.

#### 9.8 Dust comes out of the unit

 When the unit is used for the first time in a long time.

This is because dust has gotten into the unit.

#### 9.9 The units can give off odours

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

#### 9.10 The outdoor unit fan does not spin

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

#### 9.11 The display shows "

 This is the case immediately after the main power supply switch is turned on and means that the user interface is in normal condition. This continues for one minute.

## 9.12 The compressor 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.

# 9.13 The inside of an outdoor unit is warm even when the unit has stopped

 This is because the pre-heat operation is warming the compressor crankcase so that the compressor can start smoothly.

#### 9.14 Does not cool very well

 Program dry operation.
 Program dry operation is designed to lower the room temperature as little as possible refer to "6.2 Program dry operation".

### 10. Troubleshooting

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

### $\triangle$

#### **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, electric shock or fire. Contact your dealer.

The system must be repaired by a qualified service person:

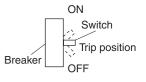
- If a safety device such as a fuse, a breaker or an earth leakage breaker frequently actuates or the ON/OFF switch does not properly work.
   Measure: Turn off the main power switch.
- If water leaks from the unit.
   Measure: Stop the operation.
- The operation switch does not work well.
   Measure: Turn off the power.
- If the user interface display " TEST indicates the unit number, the operation lamp flashes and the malfunction code appears.
   Measure: Notify your installer 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 unit 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 or breaker has worked. Change the fuse or reset the breaker if necessary.

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 goes into fan only operation, but as soon as it goes into cooling operation, the system stops:
  - 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 user interface 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 is insufficient:
  - Check if air inlet or outlet of outdoor or indoor unit is not blocked by obstacles.
  - Remove any obstacle and make it wellventilated.
  - Check if the air filter is not clogged (refer to "Maintenance" in the indoor unit manual).
  - Check the temperature setting.
  - Check the fan speed setting on your user interface.
  - 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.
  - Check if direct sunlight enters the room.
     Use curtains or blinds.
  - Check if the air flow angle is proper.

If the checking all above items, it is impossible to fix the problem yourself, contact your installer and state the symptoms, the complete model name of the air conditioner (with manufacturing number if possible) and the installation date (possibly listed on the warranty card).

#### 11. After-sales service

#### 11.1 After-sales service

### 11.1.1 Recommendations for maintenance and inspection

Since dust collects when using the unit for several years, performance of the unit will deteriorate to some extent. As taking apart and cleaning interiors of units requires technical expertise and in order to ensure the best possible maintenance of your units, we recommend to enter into a maintenance and inspection contract on top of normal maintenance activities. Our network of dealers has access to a permanent stock of essential components in order to keep your air conditioner in operation as long as possible. Contact your dealer for more information.

## When asking your dealer for an intervention, always state:

- The complete model name of the air conditioner.
- The manufacturing number (stated on the nameplate of the unit).
- · The installation date.
- The symptoms or malfunction, and details of the defect.

#### $\Lambda$

#### **WARNING**

- Do not modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electric shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe, non-toxic and non-combustible, but it will generate toxic gas when it accidentally leaks into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.
- Do not remove or reinstall the unit by yourself. Incorrect installation may cause electrical shock or fire. Contact your dealer.

### 11.1.2 Recommended inspection and maintenance cycles

Be aware that the mentioned maintenance and replacement cycles do not relate to the warranty period of the components.

Table 1 assumes the following conditions of use:

- Normal use without frequent starting and stopping of the unit.

  Depending on the model, we recommend to the model of the properties of the model of the properties of
  - Depending on the model, we recommend not starting and stopping the machine more than 6 times/hour.
- Operation of the unit is assumed to be 10 hours/ day and 2,500 hours/year.

Table 1\*: "Inspection Cycle" and "Maintenance Cycle" list

Component	Inspection cycle	Maintenance cycle (replacements and/or repairs)
Electric motor (fan, damper, etc.)		20,000 hours
PCB boards		25,000 hours
Heat exchanger		5 years
Sensor (thermistor, etc.)	1 year	5 years
User interface and switches		25,000 hours
Drain pan		8 years
Expansion valve		20,000 hours
Electromagnetic valve		20,000 hours

<sup>\*</sup>Actual inspection and maintenance cycle also depends on installation site



#### NOTICE

- Table 1 indicates main components.
   Refer to your maintenance and inspection contract for more details.
- Table 1 indicates recommended intervals of maintenance cycles. However, in order to keep the unit operational as long as possible, maintenance work may be required sooner. Recommended intervals can be used for appropriate maintenance design in terms of budgeting maintenance and inspection fees. Depending on the content of the maintenance and inspection contract, inspection and maintenance cycles may in reality be shorter than listed.

# 11.2 Shortening of "maintenance cycle" and "replacement cycle" needs to be considered in following situations

#### The unit is used in locations where:

- Heat and humidity fluctuate out of the ordinary.
- Power fluctuation is high (voltage, frequency, wave distortion, etc.) (the unit cannot be used if power fluctuation is outside the allowable range).
- · Bumps and vibrations are frequent.
- Dust, salt, harmful gas or oil mist such as sulphurous acid and hydrogen sulphide may be present in the air.
- The machine is started and stopped frequently or operation time is long (sites with 24 hour air conditioning).

Recommended replacement cycle of wear parts Table 2\*: "Replacement Cycle" list

Component	Inspection cycle	Maintenance cycle (replacements and/or repairs)
Air filter		5 years
High efficiency filter (Optional accessory)	1 year	1 year
Fuse		10 years

<sup>\*</sup>Actual maintenance cycle also depends on installation site

English 15



#### **NOTICE**

- Table 2: "Replacement Cycle" list indicates main components. Refer to your maintenance and inspection contract for more details.
- Table 2: "Replacement Cycle" list indicates recommended intervals of replacement cycles. However, in order to keep the unit operational as long as possible maintenance work may be required sooner.

Recommended intervals can be used for appropriate maintenance design in terms of budgeting maintenance and inspection fees. Contact your dealer for details.



#### **INFORMATION**

Damage due to taking apart or cleaning interiors of units 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 total unit. Moving units requires technical expertise.
- This unit uses hydrofluorocarbon. Contact your dealer when discarding this unit. It is required by law to collect, transport and discard the refrigerant in accordance with the "hydrofluorocarbon collection and destruction" regulations.

#### 11.3 Malfunction codes

In case a malfunction code appears on the indoor unit user interface display, contact your installer and inform the malfunction code, the unit type, and serial number (you can find this information on the nameplate of the unit).

For your reference, a list with malfunction codes is provided. You can, depending on the level of the malfunction code, reset the code by pushing the ON/OFF button. If not, ask your installer for advice.

Malfunction	
code Main code	Contents
	External pretection device was activated
RO	External protection device was activated
R I	EEPROM failure (indoor)
R3	Drain system malfunction (indoor)
R6	Fan motor malfunction (indoor)
R7	Swing flap motor malfunction (indoor)
A9	Expansion valve malfunction (indoor)
RF	Drain malfunction (indoor unit)
RH	Filter dust chamber malfunction (indoor)
RJ	Capacity setting malfunction (indoor)
СІ	Transmission malfunction between main PCB and sub PCB (indoor)
СА	Heat exchanger thermistor malfunction (indoor; liquid)
C5	Heat exchanger thermistor malfunction (indoor; gas)
C9	Suction air thermistor malfunction (indoor)
CR	Discharge air thermistor malfunction (indoor)
CE	Movement detector or floor temperature sensor malfunction (indoor)
CJ	User interface thermistor malfunction (indoor)
Εl	PCB malfunction (outdoor)
E3	High pressure switch was activated
EЧ	Low pressure malfunction (outdoor)
ES	Compressor lock detection (outdoor)
E6	Compressor damage alarm
ΕΠ	Fan motor malfunction (outdoor)
E9	Electronic expansion valve malfunction (outdoor)
F3	Discharge temperature or overload protector was activated (outdoor)
FY	Abnormal suction temperature (outdoor)
F6	Refrigerant overcharge detection
H3	High pressure switch was activated
H5	Overload protector malfunction
HT	Fan motor trouble (outdoor)
H9	Ambient temperature sensor malfunction (outdoor)
J1	Pressure sensor malfunction
73	Discharge temperature sensor malfunction (outdoor)
J5	Suction temperature sensor malfunction (outdoor)
חח	Liquid temperature sensor (after subcool HE) malfunction (outdoor)
J8	Liquid temperature sensor (coil) malfunction (outdoor)
73	Gas temperature sensor (after subcool HE) malfunction (outdoor)

16 English

Malfunction code	Contents	
Main code		
JR	High pressure sensor malfunction (S1NPH)	
JE	Low pressure sensor malfunction (S1NPL)	
LI	INV circuit abnormal	
L4	Fin temperature abnormal	
L5	INV circuit faulty	
L8	Compressor over current detected	
L9	INV compressor startup abnormal	
LE	INV circuit transmission trouble	
PI	INV unbalanced power supply voltage	
P2	Autocharge operation related	
P4	Fin thermistor malfunction	
P8	Autocharge operation related	
P9	Autocharge operation related	
PJ	Capacity setting malfunction (outdoor)	
ШΟ	Refrigerant shortage warning	
U2	INV voltage power shortage	
ИЗ	System test run not yet executed	
ЦЧ	Faulty wiring indoor/outdoor	
U5	Abnormal user interface - indoor communication	
U8	Abnormal main-sub user interface communication	
U9	System mismatch. Wrong type of indoor units combined. Indoor unit malfunction.	
UЯ	Connection malfunction over indoor units or type mismatch	
UE	Centralized address duplication	
UE	Malfunction in communication centralized control device - indoor unit	
ШF	Auto address malfunction (inconsistency)	
UH	Auto address malfunction (inconsistency)	

English 17

### DAIKIN AIRCONDITIONING INDIA PVT. LTD.



a manufacturing code.

3P643537-4E



### **OPERATION MANUAL**



RXMQ10ARY1 RXMQ12ARY1 RXYMQ10ARY1 RXYMQ12ARY1 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.

#### **Operation manual**

#### **Contents**

		Page
1.	Definitions	1
	1.1. Meaning of warnings and symbols	1
	1.2. Meaning of used terms	1
	1.3. Safety precautions	2
2.	Introduction	6
	2.1. General information	6
	2.2. System layout	6
3.	Before operation	7
4.	User interface	7
5.	Operation range	7
6.	Operation procedure	7
٥.	6.1. Cooling, heating, fan only, automatic	•
	operation and dry operation	7
	6.2. Program dry operation	9
	6.3. Adjusting the air flow direction	9
	6.4. Setting the master user interface	10
	6.5. Precautions for group control system	10
	or two user interface control system	11
7.	Energy saving and optimum operation	11
8.	Maintenance	12
Ο.	8.1. Maintenance after a long stop period	12
	(e.g.,at the beginning of the season)	12
	8.2. Maintenance before a long stop period	12
	(e.g., at the end of the season)	12
9.	Symptoms that are not air conditioner	12
9.	troubles	12
	9.1. The system does not operate	12
	9.2. Cool/Heat cannot be changed over	12
		12
	9.3. Fan operation is possible, but cooling/	12
	heating do not work	12
	9.4. The fan strength does not correspond	12
	to the setting	12
	9.5. The fan direction does not correspond	10
	to the setting	13 13
	9.6. White mist comes out of a unit	13
	9.7. The user interface display reads "U4"	
	or "U5" and stops, but then restarts after	13
	a few minutes	13
		13
	9.9. Dust comes out of the unit	13
	9.10. The units can give off odours	13
	9.11. The outdoor unit fan does not spin	13
	9.12. The display shows " 🛂 "	13
	9.13. The compressor in the outdoor unit	
	does not stop after a short heating	10
	operation	13
	9.14. The inside of an outdoor unit is warm	10
	even when the unit has stopped	13 13
	9.15. Does not cool very well	13
	9.16. Hot air can be felt when the indoor unit	10
40	is stopped	13
	. Troubleshooting	14
11	. After-sales service and warranty	14
	11.1. Warranty period	14
	11.2. After-sales service	14
	11.3. Shortening of "maintenance cycle" and	
	"replacement cycle" needs to be	4-
	considered in following situations	15
	11.4. Malfunction codes	16
	1 1.7. IVIAIIUIIUIIUII UUUDS	10

#### 1. Definitions

#### 1.1. Meaning of warnings and symbols

Warnings in this manual are classified according to their severity and probability of occurrence.



#### **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.



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



#### **INFORMATION**

This symbol identifies useful tips or additional information.

Some types of danger are represented by special symbols:



Electric current.



Danger of burning and scalding.

#### 1.2. Meaning of used terms

#### **Installation manual:**

Instruction manual specified for a certain product or application, explaining how to install, configure and maintain it.

#### **Operation manual:**

Instruction manual specified for a certain product or application, explaining how to operate it.

#### **Maintenance instructions:**

Instruction manual specified for a certain product or application, which explains (if relevant) how to install, configure, operate and/or maintain the product or application.

#### Dealer:

Sales distributor for products as per the subject of this manual.

#### Installer:

Technical skilled person who is qualified to install products as per the subject of this manual.

Person who is owner of the product and/or operates the product.

#### Service company:

Qualified company which can perform or coordinate the required service to the unit.

#### Applicable legislation:

All international, European, national and local directives, laws, regulations and/or codes which are relevant and applicable for a certain product or domain.

#### Accessories:

Equipment which is delivered with the unit and which needs to be installed according to instructions in the documentation.

#### **Optional equipment:**

Equipment which can optionally be combined to the products as per the subject of this manual.

#### Field supply:

Equipment which needs to be installed according to instructions in this manual, but which are not supplied by Daikin.

#### 1.3. Safety precautions

To gain full advantage of the air conditioner's functions and to avoid malfunction due to mishandling, we recommend that you read this instruction manual carefully before use. Read the precautions thoroughly to avoid misuse of the equipment.

This air conditioner is classified under "appliances not accessible to the general public".

- The precautions described herein are classfied as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- There are three kinds of safety precaution and tips listed in the following.



- WARNING...... Failure to follow these instructions properly may result in personal injury or loss of life.
  - This unit contains electrical and hot parts.
  - Before operating the unit, be sure the installation has been carried out correctly by an installer. If you feel unsure about operation, contact your installer for advice and information.



- **CAUTION.......** Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.
- After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.



/ WARNING

• Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit.

Leaves are a hotbed for small animals which can enter the unit.

Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.

- Consult your local dealer about installation work. Doing the work yourself may result in water leakage, electric shocks or fire hazards.
- Do not insert fingers, rods or other objects into the air inlet or outlet. When the fan is rotating at high speed, it will
- cause injury.
- Never let the indoor unit or the user interface get wet.

It may cause an electric shock or a fire.

- Do not put user interface in risk to wet place. If water enter into controller, risk to electric leakage and cause to electronics parts damaged.
- Be sure to use fuses with the correct ampere

Do not use improper fuses, copper or other wires as a substitute, as this may result in electric shock, fire, injury or damage to the unit.

- Consult your local dealer regarding what to do in case of refrigerant leakage.
   When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of leakage. Otherwise, this may lead to an accident due to oxygen depletion.
- Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause.

  Consult your dealer for assistance. The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas. Do not longer use air conditioner until a qualified service person confirms that the leakage has been repaired.
- Do not use the air conditioner until a service person confirms that the portion where the refrigerant leaks happened is repaired.
- Turn off any combustible heating devices, ventilate the room and contact the dealer where you purchased the unit.
- Improper installation or attachment of equipment or accessories could result in electric shock, short circuit, leaks, fire or other damage to the equipment.
- Consult your local dealer regarding modification, repair and maintenance of the air conditioner.
   Improper workmapship may result in water.

Improper workmanship may result in water leakage, electric shocks or fire hazards.

 Consult your local dealer regarding relocation and reinstallation of the air conditioner.

Improper installation work may result in leakage, electric shocks or fire hazards.

 Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.

Otherwise, an electric shock and injury may result.

 Do not operate the air conditioner with wet hands.

An electric shock may result.

 Do not wash the air conditioner with water, as this may result in electric shocks or fire.

- Be sure to install an earth leakage breaker.
   Failure to install an earth leakage breaker may result in electric shocks or fire.
   In order to avoid electric shock or fire, make sure that an earth leak detector is installed.
- 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 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 use the product in the atmosphere contaminated with oil vapor, such as cooking oil or machine oil vapor.
  - Oil vapor may cause crack damage, electric shocks or fire.
- Do not install the air conditioner at any place where there is a danger of flammable gas leakage.

In case of a gas leakage, build-up of gas near the air conditioner may result in fire hazards.

- Contact professional personnel about attachment of accessories and be sure to use only accessories specified by the manufacturer.
   If a defect results from your own workmanship, it may result in water leaks, electric shock or fire.
- Do not use the product in places with excessive oily smoke, such as cooking room, or in places with flammable gas, corrosive gas, or metal dust.

Using the product in such places may cause fire or product failures.

- When the air conditioner is malfunctioning (giving off a burning odour, etc.) turn off power to the unit and contact your local dealer.
   Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.
- Do not place flammable sprays or operate spray containers near the unit as this may result in fire.
- Do not clean the product with organic solvents such as paint thinner.

The use of organic solvents may cause crack damage to the product, electric shocks or fire.

 Be sure to use a dedicated power supply for the air conditioner.

The use of any other power supply may cause heat generation, fire or product failures.

• Consult your dealer regarding cleaning the inside of the air conditioner.

Improper cleaning may cause breakage of plastic parts, water leakage and other damage as well as electric shocks.

 Be sure the air conditioner is electrically earthed.

In order to avoid electric shock, make sure that the unit is grounded and that the earth wire is not connected to gas or water pipe, lightning conductor or telephone earth wire.

- Do not place a flower vase or anything containing water on the unit. Water may enter the unit, causing an electric shock or fire.
- Avoid placing the controller in a spot which can be splashed with water. Water entering the machine may cause an electric leak or may damage the internal electronic parts.
- Be aware that prolonged, direct exposure to cool or warm air from the air conditioner or to air that is too cool or too warm can be harmful to your physical condition and health.

### CAUTION -

- Do not remove the outdoor unit's fan guard. The guard protects against the unit's high speed fan, which may cause injury.
- Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units.

Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.

- To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.
- Do not place flammable sprays near the unit as this can cause explosions.
- Do not place appliances that produce naked flames in places exposed to the air flow from the unit as this may impair combustion of the burner.

- Do not place burners or heaters in places exposed to the air flow from the unit as this may impair combustion of the burner or heater.
- Do not place heaters directly below the unit, as resulting heat can cause deformation.
- Do not allow a child to mount on the outdoor unit or avoid placing any object on it.
   Falling or tumbling may result in injury.
- Do not block air inlets or outlets.
   Impaired air flow may result in insufficient performance or trouble.
- Arrange the drain hose to ensure smooth drainage.

Imperfect drainage may cause wetting of the building, furniture etc.

Arrange the drain hose to ensure smooth drainage.

Imperfect drainage may cause wetting.

- Be sure that children, plants or animals are not exposed directly to air flow from the unit, as adverse effects may ensue.
- Do not wash air conditioner or user interface, causing an electric shock or fire.
- Do not put flammable containers, such as spray cans, within 1 m from the blow-off mouth.

The containers may explode because the warm air output of the outdoor unit will affect them.

Arrange the drain to ensure complete drainage.

If proper drainage from the outdoor drain pipe does not occur during air conditioner operation, there could be a blockage due to dirt and debris build-up in the pipe.

This may result in a water leakage from the indoor unit. Under these circumstances, stop air conditioner operation and consult your dealer for assistance.

- The appliance is not intended for use by unattended young children or infirm persons.
   Impairment of bodily functions and harm to health may result.
- Children should be supervised to ensure that they do not play with the unit or its user interface.

Accidental operation by a child may result in impairment of bodily functions and harm health.

 To avoid injury, do not touch the air inlet or aluminium fins of the unit.

These fins are sharp and could result in cutting injuries.

Never touch the internal parts of the controller.

Do not remove the front panel. Touching certain internal parts will cause electric shocks and damage to the unit. Please consult your dealer about checking and adjustment of internal parts.

 Do not leave user interface wherever there is a risk of wetting.

If water gets into the remote controller there is a risk of electrical leakage and damage to electronic components.

 Turn off the main power switch when the air conditioner is not to be used for prolonged periods.

When the main power switch is left on, some electric power (watts) is still consumed even if the air conditioner is not operating. Therefore, switch off the main power switch to save energy. When resuming operation, to ensure smooth running, turn on the main power switch 6 hours before operating the air conditioner again.

 Watch your steps at the time of air filter cleaning or inspection.

High-place work is required, to which utmost attention must be paid.

If the scaffold is unstable, you may fall or topple down, thus causing injury.

- Take care of scaffolding and exercise caution when working high above ground level.
- Do not operate with the control panel lid open.

If water gets inside the panel, it may result in equipment failure or electric shock.

- Do not sit or place objects on the outdoor unit Falling yourself of objects could cause injury.
- Do not let children play on or around the outdoor unit.

If they touch the unit carelessly, injury may be caused.

• Never operate user interface buttons with hard, pointed objects.

This may result in remote controller damage.

Do not pull or twist user interface cord.
 This may cause malfunctioning.

 Do not use the air conditioner for purposes other than those for which it is intended.

Do not use the air conditioner for cooling precision instruments, food. plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned

 After prolonged use, check the unit stand and its mounts for damage.

If left in a damaged condition, the unit may fall and cause injury.

 Do not place items which might be damaged by moisture under the indoor unit.

Condensation may form if the humidity is above 80%, if the drain outlet is blocked or the filter is polluted.

 Ensure that user interface is not exposed to direct sunlight.

This will cause discoloration of the LCD display with resulting loss of readability.

• Do not wipe the controller panel with benzene or other organic solvent.

This will cause discoloration and/or peeling. If the panel needs cleaning, use a damp cloth with some water-diluted neutral detergent. Wipe with a dry cloth afterwards.

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

Fumigation chemicals deposited in the unit could endanger the health of those who are hypersensitive to touch chemicals.

#### **Installation Site**

#### Regarding places for installation

- Install the air conditioner in a well-ventilated place that is free of obstructions
- Do not use the air conditioner in the following kinds of places:
  - a. Where there is considerable use of mineral oil such as cutting oil.
  - b. Where there is much salt such as a beach area.
  - c. Where there is sulphur gas such as in a hotspring resort.
  - d. Where there are considerable voltage fluctuations such as a factory.
  - e. Where there are motor vehicles or marine vessels.
  - f. Where there is considerable atmospheric oil such as in cooking areas.
  - g. Where there are machines generating electromagnetic radiation.
  - h. Where the air contains acidic or alkaline steam or a vapour.

#### Wiring

All wiring must be performed by an authorized electrician.

Always consult your dealer about wiring. Never do it by yourself.

• Only use the dedicated power supply circuit provided for this air conditioner.

#### Also pay attention to operating noise.

- Select the following kinds of location:
  - a. A place that can sufficiently withstand the weight of the air conditioner with less running noises and vibrations.
  - b. A place where warm airflow from the air outlet of the outdoor unit and operating noise do not cause a nuisance to neighbours.
- Be sure there are no obstructions near the air outlet of the outdoor unit.
- Obstructions may result in poor performance and increased operating noise.

If abnormal noise occur, ask your dealer for advise.

Make sure that the piping is heat insulated.
If the piping is frozen and broken, scalding or
water leakage may result.
Consult your installer.

#### System relocation

Consult your Daikin about remodelling and relocation.

#### 2. Introduction

#### 2.1. General information

The indoor unit part of VRV heat pump system can be used for heating/cooling applications. The type of indoor unit which can be used depends on the outdoor units series.



#### **NOTICE**

For future modifications or expansions of your system:

A full overview of allowable combinations (for future system extensions) is available in technical engineering data and should be consulted. Contact your installer to receive more information and professional advice.

In general following type of indoor units can be connected to a VRV system (not exhaustive list, depending on outdoor unit model and indoor unit model combinations):

- VRV direct expansion indoor units (air to air applications).
- RA direct expansion indoor units (air to air applications).

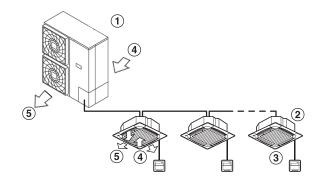
Combination of VRV direct expansion indoor units with RA direct expansion units is allowed.

For more specifications, see technical engineering data.

#### 2.2. System layout

Your VRV-S Heat pump/Cooling only RXYMQ/ RXMQ series outdoor is a single unit and can't combine with multiple outdoor unit.

Depending on the type of outdoor unit which is chosen, some functionality will or will not exist.



- Names and functions of parts (Refer to figure 1)
- 1. Outdoor unit
- 2. Indoor unit
- 3. Remote controller
- 4. Air inlet
- 5. Air outlet

#### 3. Before operation

This operation manual is for the following systems with standard control. Before initiating operation, contact your dealer for the operation that corresponds to your system type and mark. If your installation has a customized control system, ask your dealer for the operation that corresponds to your system.

Operation modes(depending on indoor/outdoor unit type):

- · Heating (air to air).
- Cooling Only (air to air).
- \*
- Fan only operation (air to air).
- ₽.
- Dry operation.
  - Automatic operation.

For Indoor unit

Dedicated functions exist depending on the type of indoor unit, refer to dedicated installation/operation manual for more information.

#### 4. User interface

This operation manual will give a non-exhaustive overview of the main functions of the system.

Detailed information on required actions to achieve certain functions can be found in the dedicated installation and operation manual of the indoor unit.

Refer to the operation manual of the installed user interface.

#### 5. Operation range

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

	*	•
Outdoor temperature	0~49°C DB	0~20°C DB
Indoor temperature	14~28°C WB	10~27°C DB
Indoor humidity	≤80% <sup>(a)</sup>	

(a) To avoid condensation and water dripping out of the unit. If the temperature or the humidity is beyond these conditions, safety devices may be put in action and the air conditioner may not operate.

Above operation range is only valid in case direct expansion indoor units are connected to the VRV system.

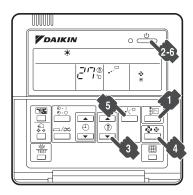
#### 6. Operation procedure

- Operation procedure varies according to the combination of outdoor unit and user interface.
   Read the chapter 3 "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, fan only, automatic operation and dry operation

- The operation mode cannot be changed with the remote controller whose display shows " LA " (change over under centralized control). Change the operation mode with user interface whose display dose not show " LA ".
- When the display States and Setting the master user interface
- The fan may keep on running for about 1 minute after the heating operation stops for removing the heat in the indoor unit.
- The air flow rate may adjust itself depending on the room temperature or the fan may stop immediately. This is not a malfunction.

#### STARTING THE SYSTEM



- Press the operation mode selector button several times and select the operation mode of your choice
  - " \* " Cooling operation
  - " 🌞 " Heating operation
  - " 🗫 " Fan only operation
  - " Dry operation
  - " Automatic operation.
- Press the ON/OFF button.
  The operation lamp lights up and the system starts operation.

#### **ADJUSTMENT**

For adjustment the desired temperature, fan speed and air flow direction (only for the remote controller, follow the procedure shown below.)

Press the temperature setting button



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

#### NOTE TO

- Set the temperature within the operation range.
- The temperature setting is impossible for fan only operation.
- Press the fan speed control button and select the fan speed of your preference.
- Press air flow direction adjust button.

  Refer to the chapter "6.3 Adjusting the air flow direction" for details.

#### STOPPING THE SYSTEM

Press the ON/OFF button once again.
The operation lamp goes off and the system stops operation.

### **①**

#### NOTICE

- Do not turn off the power immediately after the unit stops, but wait for at least 5 minutes.
- 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**

It may take longer to reach the set temperature for general heating operation than for cooling 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's air cooled coil increases over time, restricting the energy transfer to the outdoor unit's coil. Heating capability decreases and the system needs to go into defrost operation to be able to deliver enough heat to the indoor units:
- When a RX(Y)MQ outdoor unit is installed, the indoor unit will stop fan operation, the refrigerant cycle will reverse and energy from inside the building will be used to defrost the outdoor unit coil.
- The indoor unit will indicate defrost operation on the displays (\*)/\*\*.

#### 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 user interface shows 1. It may take some time before the fan starts. This is not a malfunction.



#### **INFORMATION**

- The heating capacity drops when the outside temperature falls. If this happens, use another heating device together with the unit. (When using together with appliances that produce open fire, ventilate the room constantly).
   Do not place appliances that produce open fire in places exposed to the air flow from the unit or under the unit.
- It takes some time to heat up the room from the time the unit is started since the unit uses a hot-air circulating system to heat the entire room.
- If the hot air rises to the ceiling, leaving the area above the floor cold, we recommend that you use the circulator (the indoor fan for circulating air). Contact your dealer for details.

#### 6.2 Program dry operation

- The function of this program is to decrease the humidity in your room with minimal temperature decrease (minimal room cooling).
- The microcomputer automatically determines temperature and fan speed (cannot be set by the user interface).
- The system does not go into operation if the room temperature is low (<20°C).



#### Starting the system

- 1. Select cooling operation mode with the remote control switch.
- 2. Press the operation mode selector button several times and select (program dry operation).
- 3. Press the ON/OFF button of the user interface. The operation lamp lights up and the system starts operating.
- 4. Press the air flow direction adjust button (only for Double-flow, Multi-flow, Corner, Ceilingsuspended and Wall-mounted). Refer to "6.3 Adjusting the air flow direction".

#### Stopping the system

5. Press the ON/OFF button of the user interface once again. The operation lamp goes off and the system stops operating.



#### **NOTICE**

Do not turn off power immediately after the unit stops, but wait for at least 5 minutes.

#### 6.3 Adjusting the air flow direction



• Press the air flow direction 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)



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



Double flow+multi-flow units



Corner units



Ceiling suspended units



Wall-mounted units

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

COOLING	HEATING	
When the room temperature	When starting operation.	
is lower than the set temperature.	<ul> <li>When the room temperature is higher than the set temperature.</li> </ul>	
	<ul> <li>At defrost operation.</li> </ul>	
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 user interface indication will also change.		

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

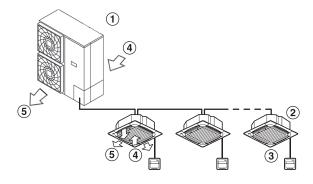
- The air flow flap itself adjusts its position.
- The air flow direction can be fixed by the user.
   Automatic or desired position



#### NOTICE

- The movable limit of the flap is changeable. Contact your dealer for details. (only for double-flow, multiflow, corner, ceiling-suspended and wall-mounted).
- Avoid operating in the horizontal direction
   <sub>---□</sub>. It may cause dew or dust to settle on the ceiling or flap.

#### 6.4 Setting the master user interface



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

- 1. Outdoor unit
- 2. Indoor unit
- 3. Remote controller
- 4. Air inlet
- 5. Air outlet

When the system is installed as shown in the figure above, it is necessary to designate one of the user interfaces as the master user interface.

The displays of slave user interfaces show (change over under centralized control) and slave user interfaces automatically follow the operation mode directed by the master user interface.

Only the master user interface can select heating or cooling or fan only mode.

#### How to designate the master user interface



- Press the operation mode selector button of the current master user interface for 4 seconds. In case this procedure was not yet performed, the procedure can be executed on the first user interface operated. The display showing <a href="Likelihood: Likelihood: Likelihood
- Press the operation mode selector button of the controller that you wish to designate as the master user interface. Then designation is completed.

This user interface is designated as the master user interface and the display showing (change over under centralized control) vanishes. The displays of other user interfaces show (change over under centralized control).

### 6.5 Precautions for group control system or two user interface control system

This system provides two other control systems beside individual control system (one user interface controls one indoor unit). Confirm the following if your unit is of the following control system type:

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



#### NOTICE

Contact your dealer in case of changing the combination or setting of group control and two user interface control systems.



#### **INFORMATION**

For another user interfaces refer to the operation manual of the operation procedured user interface.

#### 7. Energy saving and optimum operation

Observe the following precautions to ensure the system operates properly.

- Adjust the air outlet properly and avoid direct air flow to room inhabitants.
- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling.
- Prevent direct sunlight from entering a room during cooling operation by using curtains or blinds.
- Ventilate often. Extended use requires special attention to ventilation.
- Keep doors and windows closed. If the doors and windows remain open, air will flow out of your room causing a decrease in the cooling or heating effect.
- Be careful not to cool or heat too much. To save energy, keep the temperature setting at a moderate level.
- 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.
- 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 consumes electricity. Before restarting the unit, turn on the main power supply switch 6 hours before operation to ensure smooth running. (Refer to "Maintenance" in the indoor unit manual.)
- When the display shows (time to clean the air filter), ask a qualified service person to clean the filters. (Refer to "Maintenance" in the indoor unit manual.)
- Keep the indoor unit and user interface at least 1 m away from televisions, radios, stereos, and other similar equipment. Failing to do so may cause static or distorted pictures.
- Do not place items under the indoor unit, they may be damaged by water.

- Do not use other heating devices directly beneath the indoor unit. Othetwise, the unit might be get deformed by the heat.
- Condensation may form if the humidity is above 80% or if the drain outlet gets blocked.

Your system is equipped with advanced energy saving functionality. Depending on the priority emphasises can be put on energy saving or comfort level. Several parameters can be selected, resulting in the optimal balance between energy consumption and comfort for your particular application.

Several patterns are available and roughly explained below. Contact your installer or dealer for advice or to modify the parameters to the needs of your building.

Detailed information is given for the installer in the installation manual. He can help you to realize the best balance between energy consumption and comfort.

#### 8. Maintenance



#### 

Pay attention to the fan. It is dangerous to inspect the unit while the fan is running.

Be sure to turn off the main switch and to remove the fuses from the control circuit located in the outdoor unit.

#### 8.1 Maintenance after a long stop period (e.g., at the beginning of the season)

- Check and remove everything that might be blocking inlet and outlet vents of indoor units and outdoor units.
- Clean air filters and casings of indoor units. (b) Refer to the operation manual supplied with the indoor units for details on how to proceed and make sure to install for details on how to proceed and make sure to install cleaned air filters back in the same position.
- Turn on the power at least 6 hours before operating the unit in order to ensure smoother operation. As soon as the power is turned on, the user interface display appears.

<sup>(</sup>b) Contact your installation or maintenance person to clean air filters and casings of the indoor unit. Maintenance tips and procedures for cleaning are provided in the installation/ operation manuals of dedicated indoor units.

### 8.2 Maintenance before a long stop period (e.g., at the end of the season)

- Let the indoor units run in fan only operation for about half a day in order to dry the interior of the units.
  - Refer to "6.1. Cooling, heating, fan only, automatic operation and dry operation".
- Turn off the power. The user interface display disappears.
- When the power supply is on, the unit consumes up to several dozen watts of power.
   Turn off the power supply to save energy.
- Clean air filters and casings of indoor units. Refer to the operation manual supplied with the indoor units for details on how to proceed and make sure to install cleaned air filters back in the same position.

## 9. Symptoms that are not air conditioner troubles

Following symptoms are not air conditioner troubles:

#### 9.1 The system does not operate

- The air conditioner does not start immediately after the ON/OFF button on the user interface is pressed. 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.
  - The same starting delay occurs after the operation mode selector button was used.
- If "Under Centralized Control" is displayed on the user interface and pressing the operation button causes the display to blink for a few seconds indicating that the central device is controlling the unit. The blinking display indicates that the user interface cannot be used.
- The system does not start immediately after the power supply is turned on. Wait one minute until the microcomputer is prepared for operation.

#### 9.2 Cool/Heat cannot be changed over

- when the cool/heat changeover remote control switch is installed and the display shows (change-over under centralized control). This is because cool/heat changeover is controlled by the cool/heat changeover remote control switch. Ask your dealer where the remote control switch is installed.

### 9.3 Fan operation is possible, but cooling/ heating do not work

 Immediately after the power is turned on. The microcomputer is getting ready to operate and is performing a communication check with all indoor units. Please wait 12 minutes (max.) till this process is finished.

### 9.4 The fan strength does not correspond to the setting

 The fan speed does not change even if the fan speed adjustment button in 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 speed. This is to prevent cold air 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.

### 9.5 The fan direction does not correspond to the setting

 The fan direction does not correspond with the user interface display. The fan direction does not swing. This is because the unit is being controlled by the microcomputer.

#### 9.6 White mist comes out of a unit

- 1.) 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
  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.

#### 2.) Indoor unit, outdoor unit

 When the system is changed over to heating operation after defrost operation. Moisture generated by defrost becomes steam and is exhausted.

# 9.7 The user interface display reads "U4" or "U5" and stops, but then restarts after a few minutes

 This is because the user interface is intercepting noise from electric appliances other than the air conditioner. The noise prevents communication between the units, causing them to stop.
 Operation automatically restarts when the noise ceases.

#### 9.8 Noise of air conditioners

- 1.) 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 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.
- 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.

#### 2.) 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.

#### 3.) Outdoor unit

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

#### 9.9 Dust comes out of the unit

When the unit is used for the first time in a long time.

This is because dust has gotten into the unit.

#### 9.10 The units can give off odours

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

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

#### 9.12 The display shows " 💵 "

This is the case immediately after the main power supply switch is turned on and means that the user interface is in normal condition. This continues for one minute.

#### 9.13 The compressor in the outdoor unit does not stop after a short heating operation.

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 Does not cool very well

Program dry operation. Program dry operation is designed to lower the room temperature as little as possible refer to "6.2 Program dry operation"

#### 9.16 Hot air can be felt when the indoor unit is stopped

Several different indoor units are being run on the same system. When another unit is running, some refrigerant will still flow through the unit.

#### 10. Troubleshooting

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

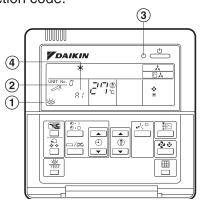
#### 

Stop operation and shut off the power if anything unusual occurs (burning smells etc.) Leaving the unit running under such circumstances may cause breakage, electric shock or fire. Contact your dealer.

The system must be repaired by a qualified service person:

- If a safety device such as a fuse, a breaker or an earth leakage breaker frequently actuates or the ON/OFF switch does not properly work. Measure: Turn off the main power switch.
- If water leaks from the unit. Measure: Stop the operation.
- The operation switch does not work well. Measure: Turn off the power.
- If the user interface display indicates the unit number, the operation lamp flashes and the malfunction code

Measure: Notify your installer 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 unit 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 or breaker has worked. Change the fuse or reset the breaker if necessary.

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.

Breaker

ON

Switch

Trip position

OFF

- 2. If the system goes into fan only operation, but as soon as it goes into cooling operation, the system stops:
  - 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 user interface display shows (time to clean the air filter).

Refer to "the operation manual of the indoor unit And clean the air fitter".

- 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 air filter is not clogged (refer to "Maintenance" in the indoor unit manual).
  - · Check the temperature setting.
  - Check the fan speed setting on your user interface.
  - 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.
  - Check if direct sunlight enters the room. Use curtains or blinds.

• Check if the air flow angle is proper.

If the checking all above items, it is impossible to fix the problem your self, contact your installer and state the symptoms, the complete model name of the air conditioner (with manufacturing number if possible) and the installation date (possibly listed on the warranty card).

### 11. After-sales service and warranty

#### 11.1 Warranty period

- This product includes a warranty card that was filled in by the dealer at the time of installation.
   The completed card has to be checked by the customer and stored carefully.
- If repairs to the air conditioner are necessary within the warranty period, contact your dealer and keep the warranty card at hand.

#### 11.2. After-sales service

### 11.2.1 Recommendations for maintenance and inspection

Since dust collects when using the unit for several years, performance of the unit will deteriorate to some extent. As taking apart and cleaning interiors of units requires technical expertise and in order to ensure the best possible maintenance of your units, we recommend to enter into a maintenance and inspection contract on top of normal maintenance activities. Our network of dealers has access to a permanent stock of essential components in order to keep your air conditioner in operation as long as possible. Contact your dealer for more information. When asking your dealer for an intervention, always state:

## always state:The complete model name of the air conditioner.

- The manufacturing number (stated on the name plate of the unit).
- The installation date.
- The symptoms or malfunction and details of the defect.

#### **⚠** WARNING

- Do not modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electric shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe, non-toxic and non-combustible, but it will generate toxic gas when it accidentally leaks into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.

Do not remove or reinstall the unit by yourself.
 Incorrect installation may cause electrical shock or fire.

Contact your dealer.

### 11.2.2 Recommended inspection and maintenance cycles

Be aware that the mentioned maintenance and replacement cycles do not relate to the warranty period of the components.

Table 1 assumes the following conditions of use:

- Normal use without frequent starting and stopping of the unit.
   Depending on the model, we recommend n
  - Depending on the model, we recommend not starting and stopping the machine more than 6 times/hour.
- Operation of the unit is assumed to be 10 hours/day and 2,500 hours/year.

Table 1: "Inspection Cycle" and "Maintenance Cycle" list

Component	Inspection cycle	Maintenance cycle (replacements and/or repairs)
Electric motor (fan, damper, etc.)		20,000 hours
PCB boards		25,000 hours
Heat exchanger	1 year	5 years
Sensor (thermistor, etc.)	1 year	5 years
User interface and switches		25,000 hours
Drain pan		8 years
Expansion valve		20,000 hours
Electromagnetic valve		20,000 hours

### NOTICE

- 1 Table 1 indicates main components. Refer to your maintenance and inspection contract for more details.
- 2 Table 1 indicates recommended intervals of maintenance cycles. However, in order to keep the unit operational as long as possible, maintenance work may be required sooner. Recommended intervals can be used for appropriate maintenance design in terms of budgeting maintenance and inspection fees. Depending on the content of the maintenance and inspection contract, inspection and maintenance cycles may in reality be shorter than listed.

# 11.3 Shortening of "maintenance cycle" and "replacement cycle" needs to be considered in following situations

#### The unit is used in locations where:

- Heat and humidity fluctuate out of the ordinary.
- Power fluctuation is high (voltage, frequency, wave distortion, etc.) (the unit cannot be used if power fluctuation is outside the allowable range).

- Bumps and vibrations are frequent.
- Dust, salt, harmful gas or oil mist such as sulphurous acid and hydrogen sulfide may be present in the air.
- The machine is started and stopped frequently or operation time is long (sites with 24 hour air conditioning).

Recommended replacement cycle of wear parts Table 2: "Replacement Cycle" list

Component	Inspection cycle	Maintenance cycle (replacements and/or repairs)
Air filter		5 years
High efficiency filter (Optional accessory) 1 year		1 year
Fuse		10 years
Crankcase heater		8 years



#### ) NOTICE

- Table 2: "Replacement Cycle" list indicates main components. Refer to your maintenance and inspection contract for more details.
- Table 2: "Replacement Cycle" list indicates recommended intervals of replacement cycles. However, in order to keep the unit operational as long as possible maintenance work may be required sooner. Recommended intervals can be used for appropriate maintenance design in terms of budgeting maintenance and inspection fees. Contact your dealer for details.



#### **INFORMATION**

Damage due to taking apart or cleaning interiors of units by anyone other than our authorized dealers may not by included in the warranty.

#### Moving and discarding the unit

- Contact your dealer for removing and reinstalling the total unit. Moving units requires technical expertise.
- This unit uses hydrofluorocarbon. Contact your dealer when discarding this unit. It is required by law to collect, transport and discard the refrigerant in accordance with the "hydrofluorocarbon collection and destruction" regulations.

#### 11.4 Malfunction codes

In case a malfunction code appears on the indoor unit user interface display, contact your installer and inform the malfunction code, the unit type and serial number (you can find this information on the nameplate of the unit).

For your reference, a list with malfunction codes is provided. You can, depending on the level of the malfunction code, reset the code by pushing the ON/OFF button. If not, ask your installer for advice.

There may be possibility that malfunction code display on user interface different from, below list.

Malfunction code	Contents
Main code	
RO .	External protection device was activated
Al	EEPROM failure (indoor)
R3	Drain system malfunction (indoor)
R6	Fan motor malfunction (indoor)
87	Swing flap motor malfunction (indoor)
R9	Expansion valve malfunction (indoor)
RF	Drain malfunction (indoor unit)
RH	Filter dust chamber malfunction (indoor)
RJ	Capacity setting malfunction (indoor)
El	Transmission malfunction between main PCB and sub PCB (indoor)
E4	Heat exchanger thermistor malfunction (indoor; liquid)
CS	Heat exchanger thermistor malfunction (indoor; gas)
C9	Suction air thermistor malfunction (indoor)
CR	Discharge air thermistor malfunction (indoor)
CE	Movement detector or floor temperature sensor malfunction (indoor)
EN	User interface thermistor malfunction (indoor)
El	PCB malfunction (outdoor)
E5	Current leakage detector was activated (outdoor)
E3	High pressure switch was activated
E4	Low pressure malfunction (outdoor)
ES	Compressor lock detection (outdoor)
EΠ	Fan motor malfunction (outdoor)
E9	Electronic expansion valve malfunction (outdoor)
F3	Discharge temperature malfunction (outdoor)
F4	Abnormal suction temperature (outdoor)

Malfunction code	0
Main code	Contents
F6	Refrigerant overcharge detection
H3	High pressure switch malfunction
H4	Low pressure switch malfunction
H7	Fan motor trouble (outdoor)
H9	Ambient temperature sensor malfunction (outdoor)
JI	Pressure sensor malfunction
U2	Current sensor malfunction
J3	Discharge temperature sensor malfunction (outdoor)
J4	Heat exchanger gas temperature sensor malfunction (outdoor)
JS	Suction temperature sensor malfunction (outdoor)
J5	De-icing temperature sensor malfunction (outdoor)
JU	Liquid temperature sensor (after subcool HE) malfunction (outdoor)
J8	Liquid temperature sensor (coil) malfunction (outdoor)
JS	Gas temperature sensor (after subcool HE) malfunction (outdoor)
JR	High pressure sensor malfunction (S1NPH)
JE	Low pressure sensor malfunction (S1NPL)
LI	INV PCB abnormal
LY	Fin temperature abnormal
LS	Inverter PCB faulty
LB	Compressor over current detected
L9	Compressor lock (startup)
LE	Transmission outdoor unit - inverter: INV transmission trouble
Pl	INV unbalanced power supply voltage
P2	Autocharge operation related
P4	Fin thermistor malfunction
P8	Autocharge operation related
P9	Autocharge operation related
PE	Autocharge operation related
PJ	Capacity setting malfunction (outdoor)
UO	Abnormal low pressure drop, faulty expansion valve
UI	Open phase
NS	INV voltage power shortage
U3	System test run not yet executed
U4	Faulty wiring indoor/outdoor
US	Abnormal user interface - indoor communication
רט	Faulty wiring to Q1/Q2
UB	Abnormal main-sub user interface communication
U9	System mismatch. Wrong type of indoor units combined. Indoor unit malfunction.
UR	Connection malfunction over indoor units or type mismatch
UE	Centralized address duplication
UE	Malfunction in communication centralized control device - indoor unit
UF	Auto address malfunction (inconsistency)
UH	Auto address malfunction (inconsistency)

### DAIKIN AIRCONDITIONING INDIA PVT. LTD.