

Engineering Data SPLIT

- Heat Pump -

SUPER MULTI H-Series



DAIKIN INDUSTRIES, LTD.

13. Operation Manual

13.1 Indoor Unit

■ FTX-JA Series

Safety Precautions

- Read the following warnings and cautions carefully before operating the system and use it correctly.
- This manual classifies the precautions to the user into the following two categories. Be sure to follow all as they are all important to ensure safety.
- After reading this manual, keep it in a place easily accessible to the user for future reference.



Failure to follow a warning is very likely WARNING to result in such grave consequences as death or serious injury.



Failure to follow a caution may result in serious injury or property damage, and in certain conditions, may result in a arave consequence.

Do not attempt to extend the power cord by joining it to another cord, or by using an extension cord. Do not put any other loads on the power supply socket.

Failure to follow this will cause electric shocks, abnormal heating or fire.

Do not damage or attempt to modify the power cord. Do not use the cord in a damaged state or tied in a bundle.

Applying a heavy weight, heat or tension on the power cord will damage it, causing electric shocks or fire.

Do not expose your body to the cool (heat) air for a long time; do not cool (heat) the room too much.

It will affect your physical conditions and cause health problems.

Do not put a finger, a rod or other objects into the air outlet or inlet.

As the fan is rotating at a high speed, it will cause injury.

Do not attempt to repair, relocate, modify or reinstall the air conditioner by yourself.

Incorrect work will cause electric shocks, fire etc. For repairs and reinstallation, consult the shop where you bought the air conditioner.

If anything abnormal such as a burning smell occurs, stop the operation immediately and turn the breaker OFF.

Continued abnormal operation will cause troubles, electric shocks. fire etc. If anything is abnormal, consult the shop where you bought the air conditioner.

If the air conditioner is not cooling or heating properly, the refrigerant may be leaking, so see the dealer where the unit was purchased. Check with a qualified repairman before attempting any repairs, which might accompany addition of refrigerant.

The refrigerant used in the air conditioner is safe. Although leaks should not occur, if for some reason any refrigerant happens to leak into the room, make sure it does not come in contact with any flame, such as fan heaters, kerosene heaters, or gas ranges, as this may result noxious substances being generated.

Ventilate the room from time to Do not use the air conditioner for Do not operate the air conditioner preservation purposes. with a wet hand. time. Do not use it for preserving precision It may cause an electric shock. Be careful especially when using a instruments, foods, plants, animals, burning appliance in the same room. Insufficient ventilation may cause works of fine arts etc. Performance or quality may deteriorate and animal or shortage of oxygen. plant life may be shorter. Do not stand or sit on the outdoor Before cleaning, be sure to stop the After a long use, check the unit operation and turn the breaker OFF. stand and fittings for damage. unit. Do not place any object on the unit. As a fan is rotating at a high speed, The unit may drop and cause injury cleaning during operation may if damage is left unrepaired. The object or the person may fall cause injury. down or drop, causing injury. Do not place under the indoor or Do not wash the unit with water. Do not expose plants or animals outdoor unit anything which must It may cause an electric shock. directly to the air flow. be kept away from moisture. It may cause adverse effects on the Do not allow children to mount on Indoor unit: moisture in the air may plant or the animal. condense and drip in certain conditions. the outdoor unit or avoid placing Outdoor unit: during cooling any object on it. operation, condensation may drip from Falling or tumbling may result in the piping connections. injury. Do not place a vessel containing Do not block air inlets nor outlets. Do not place a burning appliance in water on the unit. places exposed to the air flow from Impaired air flow may result in Water may penetrate into the unit the unit or under the indoor unit. insufficient performance or troubles. and degrade electrical insulations, It may cause incomplete combustion resulting in an electric shock. or deformation of the unit from heat.

Installation

∴WARNING

Do not attempt to install the air conditioner by yourself.

Consult the service shop or a qualified technician.

Incorrect work will result in water leakage, electric shocks or fire. For installation, consult the service shop where you bought the unit or a qualified technician.

The air conditioner must be earthed.

Incomplete earthing may result in electric shocks.

Do not connect the earth line to a gas pipe, water pipe, lightening rod, or a telephone earth line.

⚠ CAUTION

Do not connect the air conditioner to a power supply different from the specification.

It may cause trouble or fire.

Do not install the air conditioner in places where flammable gas may leak.

If leaked gas should accumulate near the unit, fire may occur.

Depending on the environment, an earth leakage breaker must be installed.

Lack of an earth leakage breaker may result in electric shocks.

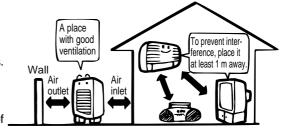
Arrange the drain hose to ensure smooth drainage.

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

(Installation site)

- To install the air conditioner in the following types of environments, consult the shop.
 - Places with an oily ambient or where steam or soot occurs.
 - Salty environment such as coastal areas.
 - Places where sulfide gas occurs such as hot springs.
 - Places where snow may block the outdoor unit.

The drain from the outdoor unit must be discharged to a place of good drainage.



 For efficient operation, take as large spaces around the unit as site allows.

(Consider nuisance to your neighbours from noises.)

- For installation, choose a place as described below.
 - A place solid enough to bear the weight of the unit which does not amplify the operation noise or vibration.
 - A place from where the air discharged from the outdoor unit or the operation noise will not annoy your neighbours.

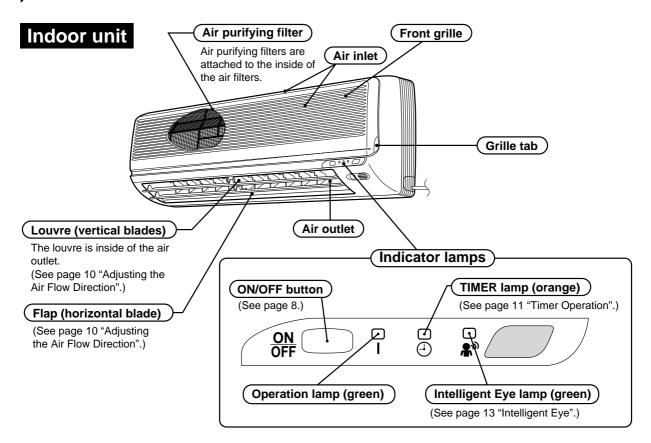
(Electrical work)

• For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

(System relocation)

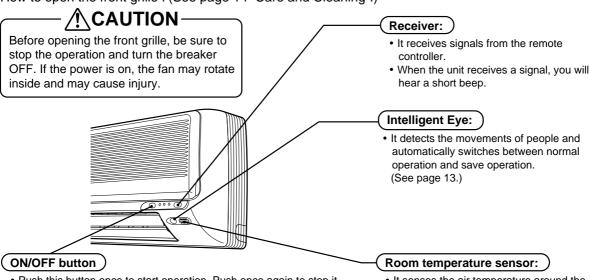
Relocating the air conditioner requires specialized knowledge and skills. Please consult the shop where you
bought the air conditioner if relocation is necessary for moving or remodeling.

Names of Parts



Opening the front grille

How to open the front grille: (See page 14 "Care and Cleaning".)



- Push this button once to start operation. Push once again to stop it.
- This button is useful when the remote controller is missing.

The operation mode refers to the following table.

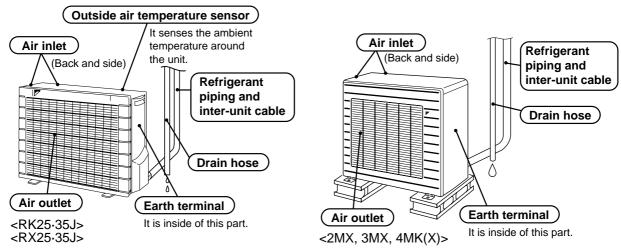
	Mode	Temperature setting	Air flow rate
FTK	COOL	22°C	AUTO
FTX	AUTO	25°C	AUTO

• In the case of multi system operation, there are times when the unit does not activate with this button. (See page 8.)

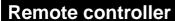
• It senses the air temperature around the unit.

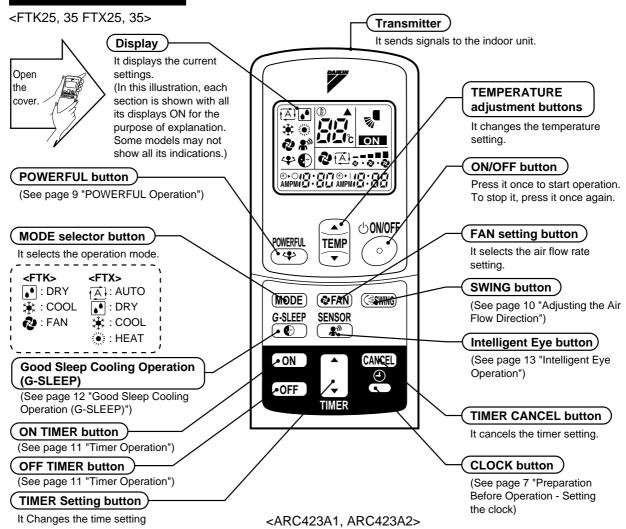
Names of Parts

Outdoor unit



Appearance of the outdoor unit may differ with some models.





Preparation Before Operation

Remote controller

■ Setting the batteries



1 Press with a finger and slide the front cover to take it off.

2 Set two dry batteries (AAA).

3 Set the back cover as before.
This will cause the figures on the display to flash. Set the clock at this point.

ATTENTION

About batteries

- When replacing the batteries, use batteries of the satype, and replace the two old batteries together.

 When the system is not used for a long time, take the
- When the system is wis work.
 When the operation display screen of the remote controlle is hard to see and the reception become hard, replace the batteries with new AAA batteries.
 The attached batteries are provided for the initial use o the system.

 The usable period of the batteries may be short depending on the manufactured date of the air conditioner.

■ Operating the remote controller

- use the remote controller, aim the transmitter at the indoor. If there is anything to block signals between the unit and remote controller, such as a curtain, the unit will not
- Do not drop the remote controller. Do not get it wet.

 The maximum distance for communication is about 7 m.



- To fix the remote controller holder
- Choose a place from where the signals reach
- 2 Fix the holder to a wall, a pillar, etc. with the
- 3 Fit the claw of the holder into the bottom of controller onto the wall.



ATTENTION

About the remote controller

- Never expose the remote controller to direct surlight.

 Dust on the signal transmitter or receiver will reduce the sensitivity. When of dust with soft doth.

 Signal communication may be disabled if an electronic-start-ry
- If the remote control signals happen to operate another appliance, move that appliance to somewhere else, or consult the shop.

Preparation Before Operation

■ Setting the air purifying filters

Open the front grille.

Hold the grille by the tabs on the two sides and lift it until it stops with a click. (about 60°)



2 Pull out the air filters.



- ${f 3}$ Set the air purifying filters.
 - Attach an air purifying filter to each air filter. (See page 14 "Care and cleaning")
- 4 Set the air filters in their original positions and close the front grille.

Operation without air filters may result in trou
will accumulate inside the indoor unit.

■ Setting the clock

Press 🖲







3 Press @. : blinks

(Now the clock is set.)

■ Turn the breaker ON

Turning ON the breaker, opens the flap, then closes it again (This is a normal procedure.)

Tips for saving energy

Be careful not to cool (heat) the room too much.
Keeping the temperature setting at a moderate save energy.

Recommended temperature setting

For cooling: 26°C – 28°C For heating: 20°C – 24°C

- Cover windows with a blind or a curtain.
 Blocking sunlight and air from outdoors increases the cooling (heating) effect.
 Clogged air filters cause inefficient operation and wa energy. Clean them once in about every two weeks.

Please note

• 000	tric dii condition	or arrano io	nowing conditions.
Mode	Operating co	nditions	If operation is continued out of this range:
COOL	Outdoor temperature (In 2, 3, 4MX Indoor temperature Indoor humidity	: 10 to 46°C : 10 to 43°C) : 18 to 32°C : 80% max.	 A safety device may work to stop the operation. (In multi system, it may work to stop the operation of the outdoor unit only.) Condensation may occur on the indoor unit and drip.
HEAT	Outdoor temperature Indoor temperature	: -10 to 21°C : 10 to 30°C	operation.
DRY	Outdoor temperature (In 2, 3, 4MX Indoor temperature Indoor humidity	: 21 to 46°C : 21 to 43°C) : 18 to 32°C : 80% max.	 A safety device may work to stop the operation. Condensation may occur on the indoor unit and drip.

AUTO • DRY • COOL • HEAT • FAN Operation

The air conditioner operates with the settings of your choice. From the next time on, the air conditioner will operate with the same settings.



• Each pressing of the button advances the mode setting





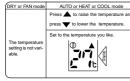


■ To stop:



Then OPERATION lamp goes off.

■ To change the temperature setting:



■ To change the air flow rate setting:

Press (FAN)

DRY mode	AUTO or HEAT or COOL or FAN mode
The air flow rate setting is not variable.	Five levels of air flow rate setting from " " " " " " " " " " " " "

• At smaller air flow rates, cooling or heating effect is also

■ To change the air flow direction:

(See page 10.)

NOTE

NOTE

Note on HEAT mode operation>
Since this air conditioner heats the room by taking heat from outdoor air to indoors, the heating capacity becomes smaller in lower outdoor temperatures. If the heating effect is insufficient, it is recommended to use another heating appliance in combination with the air conditioner.

The heat pump system heats the room by circulating hot air around all parts of the room. After the start of heating operation, it takes some time before the room gets warmer.

In heating operation, frost may occur on the outdoor unit and lower the heating capacity, in that case, the system switches into defrosting operation, hot air does not flow out of indoor unit.

Note on AUTO operations

<Note on AUTO operation> In AUTO operation, the system sele

n appropriate mode (COOL or HEAT) based on the roo erature at the start of the operation. e system automatically reselects setting at a regular interval ng the room temperature to user-setting level.

f you do not like AUTO operation, you can select ma you like the mode and setting.

POWERFUL Operation

(heating) effect in any operation mode. You can get the maximum capacity with a touch of a button.

- Pressing the (POWERFUL) button during operation starts POWERFUL operation.
- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the settings which were used before POWERFUL operation.

 During you use POWERFUL operation, the other function will



■ To cancel POWERFUL operation:

Press 🗢 .

Notes on POWERFUL operation

● In COOL and HEAT mode

To maximize the cooling and heating effect, the capacity of outdoor unit must be increased and the air flow rate be fixed to

the maximum setting.

The temperature and air flow settings are not variable.

The air flow rate is fixed to the maximum setting

The temperature setting is lowered by 3°C and the air flow rate is slightly increased. ● In FAN mode

Note for Multi **System**

Precedence-room setting

▶ Precedence-room setting When setting the preference-room during installation, the indoor unit's operation mode always takes priority. When the precedence-setting room unit is operated in POWERFUL mode, there are times that air conditioners in other rooms will temporarily stop in order to centralize power to the unit in the room.
Please adjust the precedence-room setting, please consult the service shop where you bought the unit.
Precedence-room setting, please consult the service shop where you bought the unit.
Precedence-room setting is applied to only 4MX80, 4MK90.

you bought the unit.

* COOL/HEAT mode is applied to only 4MX80, 4MK90.

NOTE-

NOI E

Note for heat pump multi system>
When two or more indoor units have no precedence-room settings and are set to modes that differ from each other, the indoor unit which is operated first activates, while the other indoor unit does not achieste and the OPERATION lamp blinks. (This is not a malfunction.)

An indoor unit that is not in operation will automatically start and operate in the mode in which a previously operated indoor unit was stopped. However, if the unit in operation provides only COOL and DRY modes, simultaneous operation is possible.

Adjusting the Air Flow Direction

Adjusting the louvre

ATTENTION

Be careful when adjusting the louvre. Inside the air outlet, a fan is rotating at a high speed.

Adjusting the horizontal blade (flap)

Press (SMING) while the air conditioner is operating.

● Every time the button is pressed, " (appears or disappears



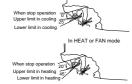


...... To stop the flap at an angle you like, press C#\$\text{\$\text{SMNG}}

Notes on flap angles

- When (\$\left\(\frac{\left\(\sim\)}{\left\(\sim\)}\) is selected, the flap swinging range on the operation mode. (See the figure.)

 The real flap angles are differ from the display of rem
- In DRY mode or COOL mode



ATTENTION

Timer Operation

unctions are useful for automatically switching the ditioner on or off at night or in the morning. You can e OFF TIMER and ON TIMER in combination

OFF TIMER operation

- Press OFF while the air conditioner is operating.



⇔ ก•กก
is displayed. O blinks.

*Previous time setting



reaches the point you like. Every pressing of either button increases or decreases the time setting by 10 minutes. Holding down either button changes the setting rapidly.

3 Press OFF once again.





■ To cancel the timer:

Press (CANCEL) . Then the TIMER lamp goes off.

Notes on OFF TIMER

 NIGHT SET MODE
 When the OFF TIMER is set, the air conditi adjusts the temperature setting (0.5°C up in COOL, 2.0°C dow in HEAT) to prevent excessive cooling (heating) for your

ON TIMER operation

Press ON while the air conditioner is

AM SOLUTION AND SO

* Previous time setting



appears on display

reaches the point you like.

Every pressing of either button increases or decreases the time setting by 10 minutes. Holding down either button changes the setting rapidly.

3 Press ON once again.



ON OFF O Then the TIMER lamp lights up.

■ To cancel the timer:

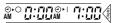
Press (CANCEL) .

Then the TIMER lamp goes off.

(Combining ONTIMER and OFF TIMER)

sample settir





(Notes on ON,OFF TIMER)

- When TIMER is set, the present time is not displayed.
 Once you set ON.OFF TIMER, the time setting is kept in the memory, the memory is cancelled when remote controller batteries are replaced.)
 When operating the unit via ON.OFF TIMER, the actual length may vary from the time entered by the user.
 (Maximum approx. 10 minutes)

ATTENTION -

the following cases, set the timer again.
After a breaker has turned OFF.
After a power failure.

10

Good Sleep Cooling Operation (G-SLEEP)

•The "Good Sleep Cooling Operation" makes the 1/f Fluctuating Temperature It brings you comfortable sleep as it prevents from getting chilled.



- To change the temperature setting. (See page 8.)
- To change the air flow rate setting. (See page 8.)
- To change the air flow direction setting.(See page 10.)
- To cancel the "Good Sleep Cooling Operation", press → Back to the normal cooling opration.

Notes on "Good sleep cooling operation"

- We adopt the 1/f fluctuation rhythm in temperature control.
 A 1/f fluctuation rhythm is used in temperature control. With it, temperature is fluctuated within a ±1°C range of the set temperature.
- 1/f fluctuation is comfortable rhythm existed in the natural world. (refer to "What's the 1/f
- Air blow is the lowest when the fan is set to "AUTO". • If you don't like this function, change the operation mode. (See page 8)

What is 1/f fluctuation...

It seems irregular but there seems to be a self-resemblance rule in our mother nature.

For example, the waves in the ocean forms irregularly but when you look at the coast line, there are some places where they look similar.

When you look close around you, our heart doesn't beat in regular intervals but shows "1/f fluctuation" in a long term. The research shows this "1/f fluctuation" and comfort has some kind of relation and is applied to the comfort control fiels.

Intelligent Eye

nt Eye" is the infrared sensor which detecs the

human movement.

SENSOR

Press While the air conditioner is operating. (The Sensor lamp lights up.)

■ To cancel the "Intelligent Eye",

press SENSOR . (The Sensor lamp goes off.)

[EX.]

When somebody in the room

When nobody in the room 20 min. after, start save operation.*

(The sensor lamp goes off.) Sombody back in the room

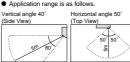
- Save operation

 Change the temperature –2°C in heat/ +2°C in cool/ +1°C in Change the temperature –2 C In near +2 C dry mode from set temperature.

 Decrease the air flow rate slightly in fan operature.
- "Intelligent Eye" is useful for Energy Saving

Notes on "Intelligent Eye"

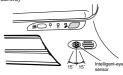
Application range is as follows.



- The sensor also mistakenly detects pets, sunlight, fluttering curtains and light reflected.
- off of mirrors as passersby.

■ Adjusting the angle of the Intelligent-eye sensor

 You can adjust the angle of the Intelligent-eye sensor to remove the detection area. (Adjustable angle: 15° to right and left of centre)



· Gently push and slide the sensor to adjust





Moving the sensor to the left Moving the sensor to the right After adjusting the angle, gently wipe the sensor with a clean cloth, being careful not to

CAUTION-

scratch the sensor.

atly push the Intelligent-eye sensor. This Do not hit or violently push the interior



- Sensor may not respond when you are 5m or
- more away. (Check the application range)

 Sensor detection sensitivity changes according
- Saving operation will not go on during powerful operation.
 Night set mode (see page 11.) will not go on during you use Intelligent Eye.
 You can sleep more comfortablly by using "Good Sleep Cooling Operation (G-SLEEP)" turction (Garage page 13) at the come time. function (see page 12.) at the same time.

CAUTION

Do not place large objects near the sensor. Also keep heating units or humidifiers outside the sensor's detection area.

This sensor can detect objects it shouldn't as vell as not detect objects it should

12

Care and Cleaning

CAUTION -

Before cleaning, be sure to stop the operation and turn the breaker OFF.

Cleaning the air filters

(It is recommended to clean them every

1 Open the front grille.

Hold the grille by the tabs on the unit it stops with a click. (about



2 Pull out the air filters.

Push a little upwards the tab at the center of each air filter, then pull it down.



3 Take off the air purifying filters and clean them.

Wash them with water, or clean them with a vacuum cleaner



4 Set the air purifying filters and the air filters as they were and close the front arille.



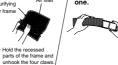
Cleaning the indoor and outdoor units and the remote controller

Replacing air purifying filters

1 Open the front grille and pull out the air filters.

2 Take off the air purifying filters.

3 Detach the filter element and attach a new



4 Attach the air purifying filter.



5 Set the air filters as they were and close the front grille. (Push the grille at the 3 points, two at both sides and in the middle.)

Air purifying filter (with frame)	KAF918A41
Air purifying filter (without frame)	KAF918A42

Care and Cleaning

Cleaning the front grille

⚠ CAUTION —

- When removing or attaching the front grille, use a robust not stable stool and watch your steps carefully. When removing or attaching the front grille, support the prille securely with hand to prevent it from falling, or cleaning, do not use water hotter than 40°C. benzine, pasoline, thrinner, nor other voltatile oils, polishing compound, crubbing brushes nor other hard staff. (Her cleaning, make sure that the front grille is securely fixed.

1 Open the front grille.

Hold the grille by the tabs on the to it stops with a click.





- 3 Clean the front grille.
 - You may wipe it with a soft cloth soaked in water.
 Only neutral detergent may be used.
 You may wash the grille with water. After washing, dry it with cloth, then dry it up in the shade.

Attach the front grille.

- Set the 3 keys of the front grille into the slots and push them in all the way.
 Supporting the front grille with one hand, fit the lock by sliding up the knob with the other hand.
 Close the front grille slowly in this state. (Push the grille at the 3 points, two at both sides and in the middle.)





Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.

Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.

Check that the earth wire is not disconnected or broken.

Check that the drain comes smoothly out of the drain hose during COOL or DRY operation.

If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

- Before a long idle period

Operate the fan alone for several hours on a fine day to dry out the inside.

Press ONIOFF

1 Press (MODE) and select " * ".

2 Press and set the temperature to 32°C

3 Press ONIOFF

Perform this operation when the room temperature is under 28°C.

Clean the air filters and set them again. Take out batteries from the remote

controller.
Turn OFF the breaker for the room air conditioner.

Trouble Shooting

These cases are not troubles.

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

Case	Explanation		
Operation does not start soon. 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 3 minutes.		
Hot air does not flow out soon after the start of heating operation.	 The air conditioner is warming up. You should wait for 1 to 4 minutes. (The system is designed to start discharging air only after it has reached a certain temperature.) 		
The heating operation stops suddenly and a flowing sound is heard.	The system is taking away the frost on the outdoor unit. You should wait for about 3 to 8 minutes.		
The outdoor unit emits water or steam.	In In IEAT mode The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation. In COOL or DRY mode Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.		
Mists come out of the indoor unit.	This happens when the air in the room is cooled into mist by the cold air flow during cooling operation.		
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.)		
The outdoor fan rotates while the air conditioner is not in operation.	After operation is stopped: The outdoor fan continues rotating for another 30 seconds for system protection. While the air conditioner is not in operation: When the outdoor temperature is very high, the out door fan starts rotating for system protection.		
The operation stopped suddenly. (OPERATION lamp is on)	For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes.		

Trouble Shooting

Check again

Please check again before calling a repair person.

Case	Check
The air conditioner does not operate. (OPERATION lamp is off)	Hasn't a breaker turned OFF or a fuse blown? Isn't it a power failure? Are batteries set in the remote controller? Is the timer setting correct?
Cooling or Heating effect is poor.	Are the air filters clean? Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Is the temperature setting appropriate? Are the windows and doors closed? Are the air flow rate and the air direction set appropriately? Is the unit set to the Intelligent Eye mode? (See page 13.)
Operation stops suddenly. (OPERATION lamp blinks.)	● Are the air filters clean? ■ Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Clean the air filters or take all obstacles away and turn the breaker OFF. Then turn it ON again and try operating the air conditioner with the remote controller. If the lamp still blinks, call the service shop where you bought the air conditioner. ■ Are operation modes all the same for indoor units connected to outdoor units in the multi system? If not, set all indoor units to the same operation mode and confirm that the lamps blink. Moreover, when the operation mode is in "AUTO", set all indoor unit operation modes to "COOU" or "HEAT" for a moment and check again that the lamps are normal. If the lamps stop blinking after the above steps, there is no malfunction. (See page 9.)
An abnormal functioning happens during operation.	 The air conditioner may malfunction with lightening or radio waves. Turn the breaker OFF, turn it ON again and try operating the air conditioner with the remote controller.

Trouble Shooting

• Call the service shop immediately.

WARNING

■ 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

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

■ Lightening

The air conditioner automatically resumes operation in about three minutes. You should just wait for a while.

If lightening may strike the neighbouring area, stop operation and turn the breaker OFF for system protection.

Disposal requirements

Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

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.

Trouble Shooting

Fault diagnosis

FAULT DIAGNOSIS BY REMOTE CONTROLLER
IN THE EVENT OF AN ABNORMALITY, THE RELEVANT ABNORMALITY CODE APPEARS FLASHING
IN THE REMOTE CONTROLLER'S TEMPERATURE DISPLAY.

	CODE	MEANING
	00	NORMAL
	U0	REFRIGEMENT SHORTAGE
SYSTEM	U2	POWER FACTOR MODULE ABNORMALITY
SISIEM	U4	INCORRECT INTERUNIT WIRING(INTERUNIT)
	U5	INCORRECT INTERUNIT WIRING
		(INDOOR UNIT-REMOTE CONTROLLER)
	A5	FREEZE-UP PROTECTOR "OR STOPPED
INDOOR	A5	BY HIGH PRESSURE CONTROL*
UNIT	A6	FAN MOTOR FAULT
	C4 OR C5	FAULTY HEAT EXCHANGER SENSOR
	C9	FAULTY SUCTION AIR TEMPERATURE SENSOR

	CODE	MEANING
	E5	INTERNAL THERMOSTAT WORKED OR
		HIGH DISCHARGE PIPE TEMPERATURE
	E6	FAULTY COMPRESSOR START
	H8	CT ABNORMALITY
	Н9	FAULTY SUCTION AIR
		TEMPERATURE SENSOR
OUTDOOR	J3	FAULTY DISCHARGE PIPE
UNIT		TEMPERATURE SENSOR
	J6	FAULTY HEAT EXCHANGER SENSOR
	J9	FAULTY GAS PIPE TEMPERATURE SENSOR
	L4 P4	HIGH TEMPERERATURE AT
		INVERTER CIRCUIT HEATSINK
l l		FAULTY INVERTER CIRCUIT HEATSINK
		TEMPERATURE SENSOR

FAULT DIAGNOSIS BY LED ON OUTDOOR UNIT PCB

GREEN	RED						
MICROCOMPUTER	MALFUNCTION		N				
NOMAL	l		CTIO				
LED-A	LED1	LED2	LED3	LED4	DIAGNOSIS		
*	•	•	•	•	NORMAL → CHECK INDOOR UNIT		
*	25	-	*	-85	HIGH PRESSURE PROTECTOR WORKED, OR FREEZE-UP IN		
, **	١*	•	₩	~	OPERATING UNIT OR STAND-BY UNIT		
*	*		*		★ INTERNAL THERMOSTAT WORKED OR HIGH DISCHAGE PIPE		
. *	*	•	₩	•	TEMPERATURE		
*	•	*	*	•	FAULTY COMPRESSOR START		
*	•	₩	•	₩	INPUT OVERCURRENT		
*	*	*	•	•	THERMISTOR OR CT ABNORMALITY		
*	*	*	•	*	HIGH TEMPERATURE SWITCHBOX		NORMALLY
*	•	•	•	*	HIGH TEMPERATURE AT INVERTER CIRCUIT HEATSINK	GREEN	FLASHING
*	•	•	*	•	★ OUTPUT OVERCURRENT	RED	NORMALLY OFF
*	•	•	*	*	REFRIGERANT SHORTAGE	*	ON
*	*	•	•	*	POWER FACTOR MODULE ABNOMALITY	*	FLASHING
*	-	-	-	-	[NOTE 1]	•	OFF
•	-	-	-	-	POWER SUPPLY FAULT OR[NOTE 2]	-	IRRELEVANT
·	-	-	-	-	POWER SUPPLY FAULT OR[NOTE 2]	-	

NOTES 1. TURN THE POWER OFF AND THEN ON AGAIN. IF THE LED DISPLAY RECURS, THE OUTDOOR UNIT POB IS FAULTY.

2. TURN THE POWER OFF AND THEN ON AGAIN. IF THE LED DISPLAY RECURS, TURN THE POWER OFF AND DISCONNECT LINE 2 OF INTER-UNIT WIRING FOR ALL UNITS, THEN TURN THE POWER ON AGAIN.

«IF LED-A IS OFF."

THE OUTDOOR UNIT POB IS FAULTY

«IF LED-A IS FLASHING."

THE INDOOR UNIT POB IS FAULTY

CHECK THE DIACONSES BY THE LEDS ON THE INDOOR UNIT POB.

3. DIAGNOSES MARKED ♦ DO NOT APPLY TO SOME CASES. FOR DETAILS, REFER TO THE SERVICE GUIDE.

3P062625-4A

■ FTXD-J Series

Safety Precautions

- Read the following warnings and cautions carefully before operating the system and use it correctly.
- This manual classifies the precautions to the user into two categories on the right. Be sure to follow all as they are all important to ensure safety.
- After reading this manual, keep it in a place easily accessible to the user for future reference.

⚠ WARNING

Failure to follow a warning is very likely to result in such grave consequences as death or serious injury.

⚠ CAUTION

Failure to follow a caution may result in serious injury or property damage, and in certain conditions, may result in a grave consequence.

WARNING

- Do not expose your body to the cool (heat) air for a long time, do not cool (heat) the room too much. It will affect your physical conditions and cause health problems.
- Do not put a finger, a rod or other objects into the air outlet or inlet.
 As the fan is rotating at a high speed, it will cause injury.
- Do not attempt to repair, relocate, modify or reinstall the air conditioner by yourself. Incorrect work will cause electric shocks, fire etc. For repairs and reinstallation, consult the shop where you bought the air conditioner.
- If anything abnormal such as a burning smell occurs, stop the operation immediately and turn the breaker OFF.

Continued abnormal operation will cause troubles, electric shocks, fire etc. If anything is abnormal, consult the shop where you bought the air conditioner.

• If the air conditioner is not cooling or heating properly, the refrigerant may be leaking, so see the dealer where the unit was purchased. Check with a qualified repairman before attempting any repairs, which might accompany addition of refrigerant.
The refrigerant used in the air conditioner is safe. Although leaks should not occur, if for some reason any refrigerant happens to leak into the room, make sure it does not come in contact with any flame, such as fan heaters, kerosene heaters, or gas ranges, as this may result noxious substances being generated.

CAUTION

- Do not use the air conditioner for preservation purposes.
 - Do not use it for preserving precision instruments, foods, plants, animals, works of fine arts etc. Performance or quality may deteriorate and animal or plant life may be shorter.
- Do not operate the air conditioner with a wet hand.
 It may cause an electric shock.
- Ventilate the room from time to time.

Be careful especially when using a burning appliance in the same room. Insufficient ventilation may cause shortage of oxygen.

- Before cleaning, be sure to stop the operation and turn the breaker OFF.
 As a fan is rotating at a high speed, cleaning during operation may cause injury.
- After a long use, check the unit stand and fittings for damage.
 The unit may drop and cause injury if damage is left unrepaired.

Do not stand or sit on the outdoor unit. Do not place any object on the unit. The object or the person may fall down or drop, causing injury.

Do not place under the indoor or outdoor unit anything which must be kept away from moisture. Indoor unit: moisture in the air may condense and drip in certain conditions. outdoor: during cooling operation, condensation may drip from the piping connections.

Do not wash the unit with water.
 It may cause an electric shock.

 Do not place a burning appliance in places exposed to the air flow from the unit or under the indoor unit.

It may cause incomplete combustion or deformation of the unit from heat.

Do not place a vessel containing water on the unit.
 Water may penetrate into the unit and degrade electrical insulations, resulting in an electric shock.

• Do not expose plants or animals directly to the air flow. It may cause adverse effects on the plant or the animal.

Do not block air inlets nor outlets.
 Impaired air flow may result in insufficient performance or troubles.

Do not allow children to mount on the outdoor unit or avoid placing any object on it. Falling or tumbling may result in injury.

Installation

WARNING

Do not attempt to install the air conditioner by yourself.
 Consult the service shop or a qualified technician.
 Incorrect work will result in water leakage, electric shocks or fire. For installation, consult the service shop where you bought the unit or a qualified technician.

The air conditioner must be earthed. Incomplete earthing may result in electric shocks. Do not connect the earth line to a gas pipe, water pipe, lightening rod, or a telephone earth line.

CAUTION

- Depending on the environment, an earth leakage breaker must be installed.
 Lack of an earth leakage breaker may result in electric shocks.
- Do not install the air conditioner in places where flammable gas may leak.
 If leaked gas should accumulate near the unit, fire may occur.
- Arrange the drain hose to ensure smooth drainage.
 Incomplete drainage may cause wetting of the building, furniture etc.
- Do not connect the air conditioner to a power supply different from the specification.
 It may cause trouble or fire.

Installation site

- To install the air conditioner in the following types of environments, consult the shop.
 - Places with an oily ambient or where steam or soot occurs.
 - Salty environment such as coastal areas.
 - Places where sulfide gas occurs such as hot springs.
 - Places where snow may block the outdoor unit.

The drain from the outdoor unit must be discharged to a place of good drainage.

Consider nuisance to your neighbours from noises

- For installation, choose a place as described below.
 - A place solid enough to bear the weight of the unit which does not amplify the operation noise or vibration.
 - A place from where the air discharged from the outdoor unit or the operation noise will not annoy your neighbours.

Electrical work

 For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

System relocation

 Relocating the air conditioner requires specialized knowledge and skills.
 Please consult the shop where you bought the air conditioner if relocation is necessary for moving or remodeling.

Note for Multi System

Precedence-room setting

When setting the preference-room during installation, the indoor unit's operation mode always takes priority. When the precedence-setting room unit is operated in POWERFUL mode, there are times that air conditioners in other rooms will temporarily stop in order to centralize power to the unit in the room.

Please adjust the precedence-room setting to match your life style. Moreover, for precedence-room settings, please consult the service shop where you bought the unit.

- * Precedence-room setting is applied to only 4MX80.
- COOL/HEAT mode

This mode is used to set the unit to only cool or heat. For information on using this mode, consult the service shop where you bought the unit.

* COOL/HEAT mode is applied to only 4MX80.

- NOTE —

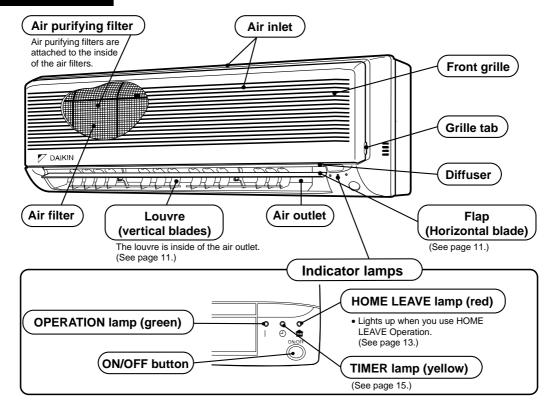
<Note for heat pump multi system>

When two or more indoor units have no precedenceroom settings and are set to modes that differ from each other, the indoor unit which is operated first activates, while the other indoor unit does not activate and the OPERATION lamp blinks. (This is not a malfunction.)

An indoor unit that is not in operation will automatically start and operate in the mode in which a previously operated indoor unit was stopped. However, if the unit in operation provides only COOL and DRY modes, simultaneous operation is possible.

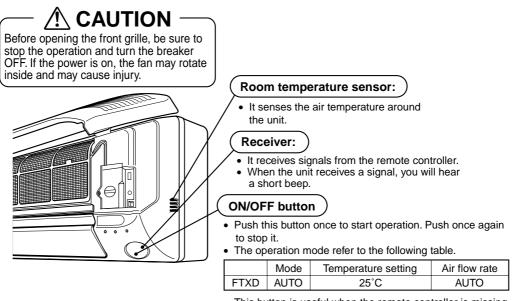
Names of Parts

Indoor unit



Opening the front grille

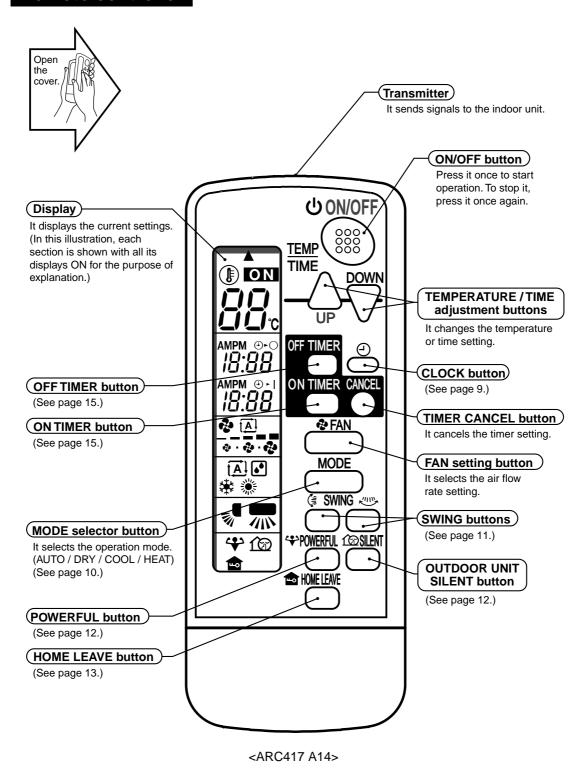
How to open the front grille: (See page 9.)



• This button is useful when the remote controller is missing.

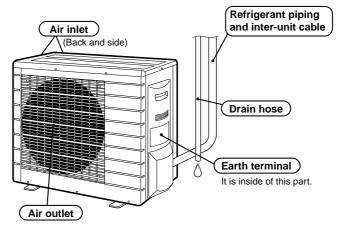
Names of Parts

Remote controller



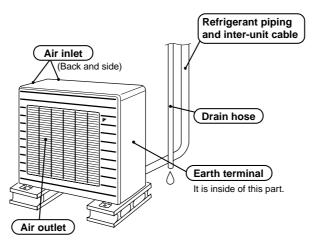
Names of Parts

Outdoor unit



Appearance of the outdoor unit may differ from some models.

<RKD50/60/71J> <RXD50/60/71J>



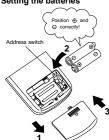
Appearance of the outdoor unit may differ with some models.

<2MK, 3MK, 4MK> <2MX, 3MX, 4MX>

Preparation Before Operation

Remote controller

Setting the batteries



- 1 Press with a finger and slide the back cover to take it off.
- 2 Set two alkaline dry batteries (LR03).
- 3 Set the back cover as before.
 This will cause the figures on the display to flash. Set the clock at this point.

ATTENTION

- About batteries

 Always replace two batteries at the same time. Replace them with new ones of an identified type. identical type. Do not use manganese dry batteries since

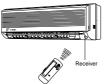
- Do not use manganese orly outerines since their use may cause a malfunction.
 If you are not going to use the air conditioner for a long period, take out all the batteries.
 Batteries should last for about a year under normal conditions. When you find the displays unclear and signal communication often failing, replace them with new ones.
- ones.

 Batteries may be exhausted even before the recommended date of consumption printed on them, if the air conditioner we manufactured many months ago.

 Never try to recharge the batteries.

■ Operating the remote controller

- To use the remote controller, aim the transmitter at the indoor unit. If there is anything to block signals between the unit and the remote controller, such as a curtain, the unit will not operate.
 Do not drop the remote controller. Do not get it wet.
 The maximum distance for communication is about



- To fix the remote controller holder on the wall
- 1 Choose a place from where the signals reach the unit.
- **2** Fix the holder to a wall, a pillar, etc. with the screws supplied with the holder.
- 3 Fit the claw of the holder into the bottom of the remote controller, and push the remote controller onto the wall.



● To remove, pull it upwards

ATTENTION

- About the remote controller

 Never expose the remote controller to direct sunlight.

 Dust on the signal transmitter or receiver will reduce the sensitivity. Wipe off dust with soft cloth.

 Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type fluorescent lamp (such as inverter-type lamps) is in the room. Consult the shop if that is the case.

 If the remote control signals happen to operate another appliance, move that appliance to somewhere else, or consult the shop.

Preparation Before Operation

Indoor unit

- Setting the air purifying filters
- Open the front grille.
 - Hold the grille by the tabs on the two sides and lift it until it stops with a click (about 60°)



- 2 Pull out the air filters.
- Push upwards the tab at the center of each air filter, then pull it down.



- 3 Set the air purifying filters.
 - Attach an air purifying filter to each air filter (See page 16 "Care and cleaning")
- 4 Set the air filters in their original positions and close the front grille
 - Operation without air filters may result in troubles as dust will accumulate inside the indoor unit.

■ Setting the clock



 $\mathbf{2}$ Press $\overset{\frown}{\bigcup_{UP}}\overset{\text{DOWN}}{\bigcirc}$ to set the clock to the present time



- 3 Press



• blinks

(Now the clock is set.)

Turn the breaker ON

• Turning ON the breaker opens the flap, then closes it again. (This is a normal procedure.)

Tips for saving energy

NOTE -

Be careful not to cool the room too much. Keeping the temperature setting at a moderate level helps save energy.

Recommended temperature setting For cooling: 26°C – 28°C For heating: 20°C – 24°C

- Cover windows with a blind or a curtain. Blocking sunlight and air from outdoors increases the cooling effect.

 Clogged air filters cause inefficient
- operation and waste energy. Clean them once in about every two weeks.

- Please note

 The air conditioner always consumes 15 35 watts of electricity oven while it is not operating.
 If you are not going to use the air conditioner for a long perior for example in spring or autumn, turn the breaker OFF.
 Use the air conditioner in the following conditions.

Mode	Operating of	conditions	If operation is continued out of this range	
COOL/ DRY	Outdoor temperature RXD 2~3MX 4MX Indoor temperature Indoor humidity	:-10 to 46 °C :21 to 43 °C :10 to 43 °C :15 to 28 °C :80% max. (*1)	A safety device may work to stop the operation. (In multi system, it may work to stop the operation of the outdoor unit only.) Condensation may occur on the indoor unit and drip.	
HEAT	Outdoor temperature RXD 2~4MX Indoor temperature	: -15 to 24 °C : -10 to 24 °C	 A safety device may work to stop the operation. 	

(*1) Use in humidity 60% or lower when using the unit at an outdoor temperature of 10°C or lower.

AUTO • DRY • COOL • HEAT Operation

The air conditioner operates with the settings of your choice. From the next time on, the air conditioner will operate with the same settings.

1 Press and select a mode.

2 Press ONIOF

■ To stop:

settina is not

Press once again.

Then OPERATION lamp goes off.

ss to lower the temperature

<u>27.</u>4

■ To change the temperature setting:

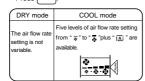
DRY mode AUTO or HEAT or COOL mode

Each pressing of the button advances the mode setting in sequence.



Then OPERATION

■ To change the air flow rate setting: Press ____



- At smaller air flow rates, the cooling effect is
- To change the air flow direction:

Adjusting the Air Flow Direction

You can adjust the air flow direction to increase your comfort.

Adjusting the horizontal blade (flap)

Press C

Every time the button is pressed, " , " " appears or disappears.





The flap automatically swings up and down.



To stop the flap at an angle you like, press

selected, the flap swinging range depends on the operation mode. (See the figure.) • When [SWING] is selected in heating operation, the flap and

the diffuse swing up and down in combination.

The diffuser is kept open in DRY or COOL mode.

Notes on flap angles

• When [SWING] is

3-D air flow

The 3-D air flow function controls the air flow by alternating the horizontal swing (up and down) and vertical swing (left and right).

This provides good air circulation throughout the room and reduces temperature fluctuations.

> Press and during the air conditioner is operating.



The up/down and left/right swing displays on the remote controller will move.

■ To cancel 3-D air flow:



NOTE -

Unless [SWING] is selected, you should set the flap at a downward angle in HEAT mode and at a nearhorizontal angle in COOL or DRY mode to obtain the best performance.

ATTENTION

All ENTION

Always use a remote controller to adjust the flap angle. If you attempt to move it forcibly with hand when it is swinging, the mechanism may be broken

NOTE -

<Note on HEAT mode operation>

- Since this air conditioner heats the room by taking heat from outdoor air to indoors, the heating capacity becomes smaller in lower outdoor temperatures. If the heating effect is insufficient, it is recommended to use another heating appliance in combination with the air conditioner.
- The heat pump system heats the room by
- The heat pump system heats the room by circulating hot air around all parts of the room. After the start of heating operation, it takes some time before the room gets warmer.
 In heating operation, frost may occur on the outdoor unit and lower the heating capacity. In that case, the system switches into defrosting operation to take away the frost.
 During defrosting operation, hot air does not flow out of indoor unit.

<Note on AUTO operation>

- <Note on AUTU operations</p>
 In AUTO operation, the system selects a temperature setting and an appropriate mode (COOL or HEAT) based on the room temperature at the start of the operation.
 The system automatically reselects setting at a regular interval to bring the room temperature to user-seetting level.
 If you do not like AUTO operation, you can select manually, you like the mode and setting.

Adjusting the vertical blade (louvre)

Every time the button is pressed, " " appears or disappears.

The flap automatically swings up and down

To stop the flap at an angle you like, press

POWERFUL Operation

POWERFUL operation quickly maximizes the cooling (heating) effect in any operation mode. You can get the maximum capacity with a touch of a button

- Pressing the (POWERFUL) button during operation starts POWERFUL operation.
- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the settings which were used before POWERFUL operation
- During you use "POWERFUL operation", the other functions will not go on.





■ To cancel POWERFUL operation:



(Notes on POWERFUL operation)

In COOL and HEAT mode

To maximize the cooling and heating effect, the capacity of outdoor unit must be increased and the air flow rate be fixed to the maximum setting.

The temperature and air flow settings are not variable

In DRY mode

12

The temperature setting is lowered by 3°C and the air flow rate is slightly increased

OUTDOOR UNIT SILENT Operation

OUTDOOR UNIT SILENT operation lowers the noise-level of the outdoor unit by changing the frequency and fan rpm on the outdoor unit. This function is convenient when sleeping, etc

How to use OUTDOOR UNIT SILENT operation

- * This function is available in COOL, HEAT, and AUTO modes.
- * This function is not available when it is connected to Multi system.
- To use the "OUTDOOR UNIT SILENT operation"



■ To cancel the "OUTDOOR UNIT SILENT operation"



(Note on OUTDOOR UNIT SILENT operation)

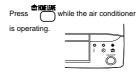
- This function is available in COOL HEAT and AUTO modes. (This is not available in DRY mode.)
- Using POWERFUL operation (P12) during OUTDOOR UNIT SILENT operation will disengage OUTDOOR UNIT SILENT
- Turning the unit off either with the remote control or by flipping the switch on the unit during OUTDOOR UNIT SILENT operation will shut the unit off. The unit will continue in OUTDOOR UNIT SILENT operation when turned back on.

HOME LEAVE Operation

HOME LEAVE operation function is useful when you leave the house or the room

How to use HOME LEAVE Operation

- This function is only available in COOL and HEAT modes
- To use the "HOME LEAVE Operation"



(The HOME LEAVE lamp lights up.)

■ To cancel the "HOME LEAVE Operation"



(The HOME LEAVE lamp goes off.)

Before using HOME LEAVE Operation...

 When using HOME LEAVE Operation for the first time, set the temperature and air flow rate for HOME LEAVE Operation.

The initial settings are:

Heating ... Temperature 25°C Air flow rate AUTO Cooling ... Temperature 25°C Air flow rate AUTO

How to set the temperature and air flow rate.



2 Adjust the set temperature with as you like.

3 Adjust the air flow rate setting with as you like.

The temperature and air flow rate will be the same as the previous settings starting with

If you want to change the settings from the previous use, repeat steps 1 through 3.

What's the HOME LEAVE Operation

• What is HOME LEAVE Operation? Using HOME LEAVE Operation

During heating... It prevents the temperature in the room from dropping too far on cold winter days by using weak heating operation (*1). Disengaging HOME LEAVE Operation will return the room to the set temperature right away.

During cooling... It prevents the temperature in the room from rising too high on cooling operation (*1). Disengaging HOME LEAVE Operation will return the room to the set temperature right away.

(*1)... You can change the set temperature and air flow rate as you wish. Refer to the "Before using home leave operation" section above on how to change the settings.

13

HOME LEAVE Operation

Useful at times like these!

1 Every day before you leave the house



When you go out, push the "HOME LEAVE Operation" button, and the air conditioner will adjust capacity to reach the preset temperature for HOME LEAVE Operati



comfortably air conditioned



Push the "HOME LEAVE Operation" button again, and the air conditioner will adjust capacity to the set temperature for normal

2 Before bed...



Set the unit to HOME LEAVE Operation before leaving the living room when going to bed.

<Note on HOME LEAVE Operation>

HOME LEAVE Operation can be set within the ranges shown below.



HOME LEAVE Operation is only available in COOL and HEAT modes. (Cannot be used in AUTO and DRY n
 HOME LEAVE Operation runs in accordance with the operation mode the unit was in before using HOME LI

HOME LEAVE Operation can be set within the ranges shown below. Temperature: (During healing) 10°C to 30°C. (During cooling) 18°C to 32°C. Air flow rate: 5 steps from weak to strong, or automatic.

Using POWERFUL operation (P12) during HOME LEAVE Operation will disengage HOME LEAVE Operation will observe the forming the unit of the yllipping the switch on the unit during HOME LEAVE Operation will shut the unit of will continue in HOME LEAVE Operation when turned back on.

Turning the unit off with the remote control during HOME LEAVE Operation will shut the unit off.

H/P: HOME LEAVE Operation will be disengaged when the unit is turned back on.



When you enter the living room in the morning, the temperature will be just right. Disengaging HOME LEAVE Operation will return the temperature to that set for normal operation. Even the coldest winters will pose no problem!

Timer Operation

Timer functions are useful for automatically switching the air conditioner on or off at night or in the morning. You can also use OFF TIMER and ON TIMER in combination.

OFF TIMER operation

- Check that the clock is correct.
 If not, set the clock to the present time. (See page 9.)
- 1 Press while the air conditioner

is operating

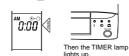


™ []:[[[[]] is displayed. -Ö-Ö- blinks

reaches the point you like.

• Every pressing of either button increases or decreases the time se by ten minutes. Holding down either button changes the setting rapidly. i ne setting

3 Press of the once again.



■ To cancel the timer:



Then the TIMER lamp goes off.

(Notes on OFF TIMER)

NIGHT SET MODE
 When the OFF TIMER is set, the air condition automatically adjusts the temperature setting (0.5°C up in COOL) to prevent excessive cooling (heating) for your pleasant sleep.

ON TIMER operation

- Check that the clock is correct. If not, set the clock to the present time (See page 9).
- 1 Press while the air conditioner is not operating.



[™]6:00 is displayed. -∭-∭- blinks.

2 Press O until the time setting

 Every pressing of either button increases decreases the time setting by 10 minutes. Holding down either button changes the setting rapidly

3 Press once again.



(Combining ON TIMER and OFF TIMER) A sample setting for combining the two timers is shown be

- (Example) -Present time: 11:00 PM (The unit operating) OFF TIMER at 0:00 a.m. ON TIMER at 7:00 a.m. ^M_7:0°0'|

Notes on ON,OFF TIMER

- When TIMER is set, the present time is not displayed.
 Once you set ONLOFT TIMER, the time setting is kept in the memory; the memory is canceled when remote conclude tatteries are replaced.)
 Other operating the unit val the ONOFF Timer, the actual length of operation may vary from the time entered by the user.(Maximum approx. 10 minutes.)

ATTENTION

- In the following cases, set the timer again.

 After a breaker has turned OFF.

 After a power failure.

 After replacing batteries in the remote control

Care and Cleaning

⚠ CAUTION -

Before cleaning, be sure to stop the operation and turn the breaker OFF.

Cleaning the air filters

1 Open the front grille.

Hold the grille by the tabs on the two sides and lift it unitl it stops with a click. (about 60°)



2 Pull out the air filters.

 Push a little upwards the tab at the center of each air filter, then pull it down



3 Take off the air purifying filters and clean them.

Wash them with water, or clean them with a vacuum cleaner



4 Set the air purifying filters and the air filters as they were and close the front grille.



Insert claws of the filters into slots of the front panel. The front grille should lock at both sides and at the point in the middle. Push the grille at the 4 points indicated by

NOTE -

- In a dusty environment, clean the air filters at least once in every two weeks.

 The dust air filters levers.
- Operation with dusty air filters lowers the cooling and heating capacity and

Cleaning the indoor and outdoo units and the remote controller

Wipe them with dry soft cloth.
 For cleaning, do not use water hotter than 40 °C, benzine, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes nor other hard stuff.

Replacing air purifying filters

(It is recommended to replace them every three months.)

- Air purifying filters need to be replaced regularly.
- 1 Open the front grille and pull out the air filters.

2 Take off the air purifying filters.
3 Detach the filter element and attach a







5 Set the air filters as they were and close the front grille.

and attach a new one.

(Push the grille at the 4 points, two at both sides and in the middle.)

- NOTE

- NOTE

 To order air purifying filters, contact the service shop where you bought the air conditioner.

 Once the air purifying filter element gets the service should be serviced to the service should be serviced to the service serv

may cadoo cacan					
Item	Pa				
Air purifying filter (with frame)	KAF				
Air purifying filter (without frame)	KAF				

Care and Cleaning

Cleaning the front grille

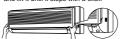
You may remove the front grille for cleaning.

⚠ CAUTION -

- When removing or attaching the front grille, use a robust and stable stool and watch your steps carefully.
 When removing or attaching the front grille, support the grille securely with hand to prevent it from falling.
 For cleaning, do not use water hotter than 40°C, benzine gasoline, thinner, nor other volatile oils, polishing compound, scrubing brushes nor othe hard stuff.
 After cleaning, make sure that the front grille is securely fixed.

Open the front grille.

Hold the grille by the tabs on the two sides and lift it until it stops with a click.



2 Remove the front grille.

- Supporting the front grille with one hand, release the lock by sliding down the knob with the other
- hand.
 To remove the front grille, pull it toward yoursel with both hands.

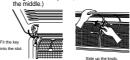


- 3 Clean the front grille.

 - You may wipe it with a soft cloth soaked in water.
 Only neutral detergent may be used.
 You may wash the grille with water. After washing, dry it with cloth, then dry it up in the shade.

4 Attach the front grille.

- Set the 3 keys of the front grille into the slots and push them in all the way.
 Supporting the front grille with one hand, fit the lock by sliding up the knob with the other hand.
 Close the front grille slowly in this state. (Push the grille at the 3 points, two at both sides and in the middle).



Check

Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.

Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.

Check that the earth wire is not disconnected or broken.

Check that the drain comes smoothly out of the drain hose during COOL or DRY operation.

If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

Before a long idle period -

- Operate the fan alone for several hours on a fine day to dry out the in-
- 1 Press MODE and select " ... ".





- 2 Clean the air filters and set them
- again.
 3 Take out batteries from the remote
- controller.
 Turn OFF the breaker for the room air conditioner.

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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
Operation does not start soon. 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 3 minutes.
Hot air does not flow out soon after the start of heating operation.	The air conditioner is warming up. You should wait for 1 to 4 minutes. (The system is designed to start discharging air only after it has reached a certain temperature.)
The heating operation stops suddenly and a flowing sound is heard.	The system is taking away the frost on the outdoor unit. You should wait for about 3 to 8 minutes.
The outdoor unit emits water or steam.	In HEAT mode The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation. In COOL or DRY mode Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.
Mists come out of the indoor unit.	■ This happens when the air in the room is cooled into mist by the cold air flow during cooling operation.
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.)
The outdoor fan rotates while the air conditioner is not in operation.	After operation is stopped: The outdoor fan continues rotating for another 30 seconds for system protection. While the air conditioner is not in operation: When the outdoor temperature is very high, the out door fan starts rotating for system protection.
The operation stopped suddenly. (OPERATION lamp is on)	For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes.

Trouble Shooting

Please check again before calling a repair person.

Case	Check			
The air conditioner does not operate. (OPERATION lamp is off)	Hasn't a breaker turned OFF or a fuse blown? Isn't it a power failure? Are batteries set in the remote controller? Is the timer setting correct?			
Cooling or Heating effect is poor.	Are the air filters clean? Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Is the temperature setting appropriate? Are the windows and doors closed? Are the air flow rate and the air direction set appropriately?			
Operation stops suddenly. (OPERATION lamp blinks.)	Are the air filters clean? Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Clean the air filters or take all obstacles away and turn the breaker OF. Then turn it ON again and try operating the air conditioner with the remo controller. If the lamp still blinks, call the service shop where you bought the air conditioner. Are operation modes all the same for indoor units connected to outdounits in the multi system? If not, set all indoor units to the same operation mode and confirm that the lamps blink. Moreover, when the operation mode is in "AUTO", set all indoor unit oper tion modes to "COOL" or "HEAT" for a moment and check again that the lamps are normal. If the lamps stop blinking after the above steps, there is no malfunction (See page 12.)			
An abnormal functioning happens during operation.	 The air conditioner may malfunction with lightening or radio waves. Turn the breaker OFF, turn it ON again and try operating the air conditioner with the remote controller. 			

Trouble Shooting

Call the service shop immediately.

– 🥂 WARNING

■ 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

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

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The air conditioner automatically resumes operation in about three minutes. You should just wait for a while.

■ Lightening

If lightening may strike the neighbouring area, stop operation and turn the breaker OFF for system protection.

Disposal requirements

Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

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.

Trouble Shooting

• Fault diagnosis

FAULT DIAGNOSIS BY REMOTE CONTROLLER
IN THE EVENT OF AN ABNORMALITY, THE RELEVANT ABNORMALITY CODE APPEARS FLASHING IN THE REMOTE CONTROLLER'S TEMPERATURE DISPLAY. CODE MEANING

SYSTEM	00	NORMAL
	U0	REFRIGERANT SHORTAGE
	U2	MAIN CIRCUIT OVERVOLTAGE
		OR LOWVOLTAGE
	U4	INCORRECT INTERUNIT WIRING (INTERUNIT)
INDOOR UNIT	A1	INDOOR PCB DEFECTIVENESS
	A5	STOPPED BY HIGH PRESSURE CONTROL
		OR FREEZE-UP PROTECTOR
	A6	FAN MOTOR FAULT
	C4 OR C5	FAULTY HEAT EXCHANGER SENSOR
	C9	FAULTY SUCTION AIR TEMPERATURE SENSOR
OUTDOOR UNIT	E3	HIGH PRESSURE SWITCH ABNORMALITY
	E5	0L OR TFU
	E6	FAULTY COMPRESSOR START
	E7	FAN MOTOR FAULT

	CODE	MEANING
	F3	STOPPED BY HIGH TEMPERATURE
	F-3	DISCHARGE PIPE CONTROL
	H3	HIGH PRESSURE SWITCH DEFECT
	H6	FAULTY POSITION DEFECTION SENSOR
	H8	CT ABNORMALITY
	H9	FAULTY SUCTION AIR TEMPERATURE SENSOR
OUTDOOR	J3	FAULTY DISCHARGE PIPE TEMPERATURE SENSOR
UNIT	J6	FAULTY HEAT EXCHANGER SENSOR
		HIGH TEMPERATURE AT
	L4	INVERTER CIRCUIT HEATSINK
	L5	OUTPUT OVERCURRENT
	P4	FAULTY INVERTER CIRCUIT HEATSINK
	P4	TEMPERATURE SENSOR

FAULT DIAGNOSIS BY LED ON OUTDOOR UNIT PCB

GREEN	RED						
MICROCOMPUTER	R MALFUNCTION		ON				
NOMAL	DETECTION						
LED-A	LED1	LED2	LED3	LED4	DIAGNOSIS	1	
*	•	•	•	•	NORMAL → CHECK INDOOR UNIT	1	
*	*	•	*	*	HIGH PRESSURE PROTECTOR WORKED, OR FREEZE-UP IN OPERATING UNIT OR STAND-BY UNIT		
*	*	•	*	•	★ INTERNAL THERMOSTAT WORKED OR HIGH DISCHAGE PIPE TEMPERATURE		
*	•	₩	*	•	FAULTY COMPRESSOR START	1	
*	•	*	•	*	INPUT OVERCURRENT	1	
*	*	*	•	•	THERMISTOR OR CT ABNORMALITY		
*	*	*	•	*	HIGH TEMPERERATURE SWITCHBOX	1	NORMALLY
*	•	•	•	*	HIGH TEMPERERATURE AT INVERTER CIRCUIT HEATSINK	GREEN	FLASHING
*	•	•	*		* OUTPUT OVERCURRENT	RED	NORMALLY OFF
*	•	•	*	*	REFRIGERANT SHORTAGE	*	ON
*	*	•	•	*	POWER FACTOR MODULE ABNOMALITY	- 3	FLASHING
*	-	-	-	-	[NOTE 1]		OFF
•	-	-	-	-	POWER SUPPLY FAULT OR[NOTE 2]		IRRELEVANT

NOTES 1. TURN THE POWER OFF AND THEN ON AGAIN. IF THE LED DISPLAY RECURS, THE OUTDOOR UNIT PCB IS FAULTY.

- RAUTY

 2. TURN THE POWER OFF AND THEN ON AGAIN, IF THE LED DISPLAY RECURS, TURN THE POWER OFF AND DISCONNECT LINE 2 OF INTER-LINIT WIRRING FOR ALL UNITS, THEN TURN THE POWER ON AGAIN.

 4F LED-ALS OFF?

 THE OUTDOOR UNIT POE IS FAULTY.

 FILE POWER OFF, TASHING.>

 THE INDOOR UNIT POES IS FAULTY, TURN THE POWER OFF, RECONNECT LINE 2 OF ALL INTER-UNIT WIRRING AND CHECK THE DIAGNOSIS BY THE LEDS ON THE INDOOR UNIT POES.

 3. DIAGNOSES MARKED

 \$\text{MARKED}\$

 \$\text{MONOSES MARKED}\$

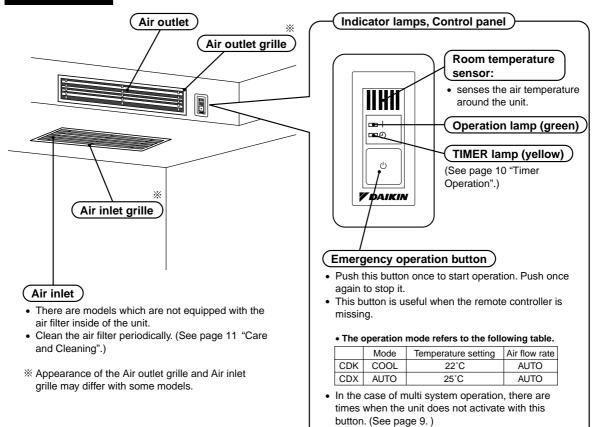
 \$\text{MONOSES MARKED}\$

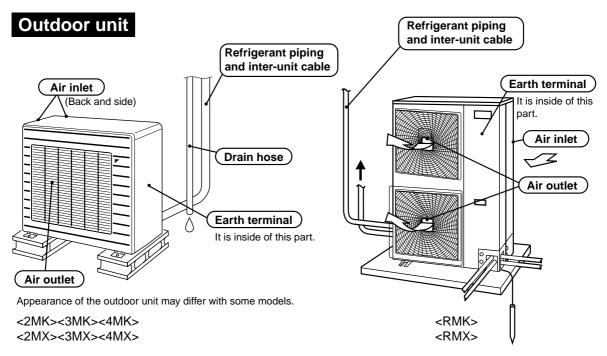
3P059682-4

■CDX-HA Series

Names of Parts

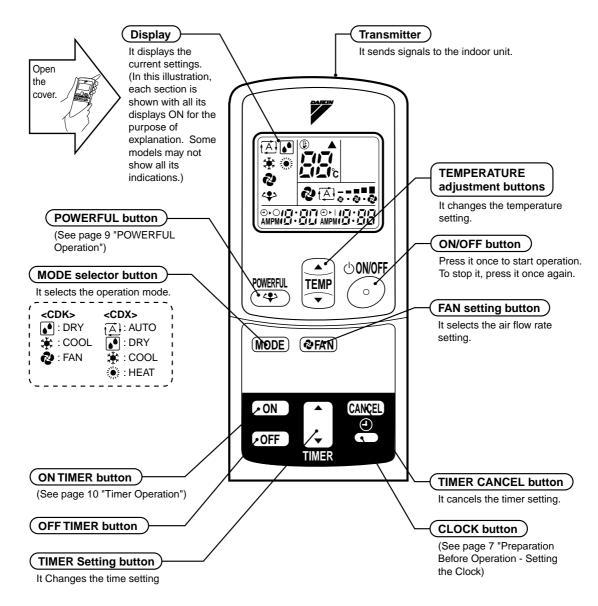
Indoor unit





Names of Parts

Remote controller

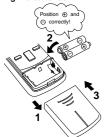


<ARC423A11 ARC423A12>

Preparation Before Operation

Remote controller

■ Setting the batteries



Press with a finger and slide the back cover to take it off.

2 Set two dry batteries (AAA).

3 Set the back cover as before.
This will cause the figures on the display to flash. Set the clock at this point.

ATTENTION -

About batteries

- When replacing the batteries, use batteries of the same type, and replace the two old batteries together.

 When the system is not used for a long time, take the
- When the operation display screen of the remote controller is hard to see and the reception become hard, replace the batteries with new AAA batteries.

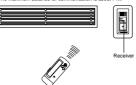
 The attached batteries are provided for the initial use of

the system.

The usable period of the batteries may be short de on the manufactured date of the air conditioner.

■ Operating the remote controller

- use the remote controller, aim the transmitter at the indoor nit. If there is anything to block signals between the unit and e remote controller, such as a curtain, the unit will not
- Do not drop the remote controller. Do not get it wet.
 The maximum distance for communication is about 7 n



■ To fix the remote controller holder on the wall

Choose a place from where the signals reach

2 Fix the holder to a wall, a pillar, etc. with the ws supplied with the holder

3 Fit the claw of the holder into the bottom of the remote controller, and push the remote controller onto the wall



ATTENTION -

About the remote controller

- Never expose the randox controller

 Never expose the randox controller to direct sunlight.

 Dust on the signal transmitter or receiver will reduce the sensitivity. Wipp off dust with soft cloth.

 Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type large) is in the room. Consult the shop if that is the case.

Preparation Before Operation

■ Setting the clock



to set the clock to the present



Holding down (▲) or (▼) button



(Now the clock is set.)

Indoor unit

■ Turn the breaker ON

Turning ON the breaker opens the flap, then clo (This is a normal procedure.)

Tips for saving energy

For cooling: $26^{\circ}C - 28^{\circ}C$ For heating: $20^{\circ}C - 24^{\circ}C$

- Cover windows with a blind or a curtain.
 Blocking sunlight and air from outdoors increases the cooling effect.
 Clogged air filters cause inefficient operation and waste energy. Clean them once in about every two weeks.

- Please noteThe air conditioner always consumes 15 35 watts of electricity even while it is not operating.
 If you are not going to use the air conditioner for a long period, for example in spring or autumn, turn the breaker

Mode	Operating conditions	If operation is continued out of this range:
COOL	Outdoor temperature : combinds with 2-4MK outdoor : 10 to 46°C	work to stop the operation of the outdoor unit only.)
HEAT	Outdoor temperature : combinde with 2-4MX outdoor : -10 to 21°C RMX -:-15 to 21°C Indoor temperature : 10 to 30°C	
DRY	Outdoor temperature : combinds with 2-4MK outdoor : 21 to 46°C = -4MX = : 5 to 46°C = RMX = : 5 to 46°C RMX = : 5 to 46°C Indoor temperature : 18 to 32°C Indoor humidity : 80% max.	on the indoor unit and

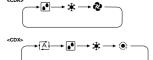
Cause a safety device to disable the system.

AUTO • DRY • COOL • HEAT • FAN Operation

The air conditioner operates with the settings of your From the next time on, the air conditioner will operate with the same settings.

1 Press MODE and select a mode.

Each pressing of the button advances the mode setting



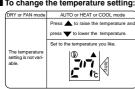
Then OPERATION James lie

■ To stop:

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■ To change the temperature setting:



■ To change the air flow rate setting:

Press @FAN

DRY mode	AUTO or HEAT or COOL or FAN mode
The air flow rate setting is not variable.	Five levels of air flow rate setting from " " " " " " " " " " " " "

At smaller air flow rates, cooling or heating effect is also

NOTE

- Note on HEAT mode operation>

Since this air conditioner heats the room by taking heat from outdoor air to indoors, the heating capacity becomes smaller in lower outdoor presentures. If the heating effect is smallfacent, it is recommended to use another heating appliance in combination with he air conditioner.

The heat pump system heats the room by circulating hot air around all parts of the room. After the star of heating operation, it takes some time before the room gets warmer.

In heating operation, frost may occur on the outdoor unit and lower the heating capacity. In that case, the system switches nto defrosting operation to take away the frost. During defrosting operation, hot air does not flow out of indoor unit.

Note on DRY mode operation> This operation dehumidifies the indoor air when it is hu

This operation dehumidifies the indoor air when it is humid.

*Note on AUTO operation>
In AUTO operation, the system selects a temperature setting and an appropriate mode (COCL or HEAT) based on the room temperature at the start of the operation.

The system automatically reselects setting at a regular interval to bring the room temperature at Its year. If you do not like AUTO operation, you can select manually you like the mode and setting.

POWERFUL Operation

POWERFUL operation quickly maximizes the cooling and heating effect in any operation mode. You can get the maximum capacity with a touch of a button.

- Pressing the (POWERFUL) button during operation starts
- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the settings which were used before POWERFUL operation.



■ To cancel POWERFUL operation:



Notes on POWERFUL operation

In COOL and HEAT mode

To maximize the cooling and heating effect, the capacity of outdoor unit must be increased and the air flow rate be fixed to the maximum setting.

The temperature and air flow settings are not variable.

In DRY mode
 The temperature setting is lowered by 1°C and the air flow rate

In FAN mode
 The air flow rate is fixed to the maximum setting.

Note for Multi System

● Precedence-room setting
When setting the preference-room during installation, the
indoor unit's operation mode always takes priority.
When the precedence-setting room unit is operated in
POWERFUL mode, there are times that air conditioners in other
rooms will temporarily stop in order to centralize power to the
unit in the room.
Please adjust the precedence-room setting to match your life
style. Moreover, for precedence-room settings, please consult
the service show where you bought the unit.

♣ Precedence-room setting is applied to only 4MX80, 4MK90.

● COOL/HEAT mode

This mode is used to set the unit to only cool or heat. For information on using this mode, consult the service shop w

you bought the unit.

* COOL/HEAT mode is applied to only 4MX80, 4MK90.

NOTE -

<Note for heat pump multi system>

hen two or more indoor units have no precedence-room ittings and are set to modes that differ from each other, the settings and are set to indues that unler from each other, are indoor unit which is operated first activates, while the other indoor unit does not activate and the OPERATION lamp blinks. (This is not a malfunction.)

●Precautions for outdoor unit connected to RMK(X)140

- In heating operation, when all indoor units are stopped, the outdoor unit stops its operation automatically after 5 minutes.

 This is a part of preparation process for the next operation,
- In heating operation, no warm air may come out temporarily. This is for an oil recovery operation performed at certain time intervals, not a failure.

 In simultaneous operation at two or more rooms, when heating
- operation is performed at one room, cooling operation cannot be performed at other rooms. Whichever mode selected first

Timer Operation

Timer functions are useful for automatically switching the air conditioner on or off at night or in the morning. You can also use OFF TIMER and ON TIMER in combination.

OFF TIMER operation

1 Press OFF while the air conditioner is operating.



AM D:DD is displayed. ⊕-○ blinks.

*Previous time setting appears on display



reaches the point you like.





■ To cancel the timer:

Press (CANCEL) . Then the TIMER lamp goes off.

Notes on OFF TIMER

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NIGHT SET MODE
 When the OFF TIMER is set, the air conditioner automatically adjusts the temperature setting (0.5° C up in COOL, 2.0° C down in HEAT) to prevent excessive cooling (heating) for your

ON TIMER operation

Press ON while the air conditioner is

M P: III (at the state of the AM is displayed. ⊕·l blinks.

*Previous time setting 2 Press until the time setting

 Every pressing of either button increases or decrea the time setting by 10 minutes. Holding down either button changes the setting rapidly.

3 Press ON once again.



Then the TIMER lamp lights up

■ To cancel the timer:

Press CANCEL .

Then the TIMER lamp goes off.

Combining ON TIMER and OFF TIMER

(Example) sent time: 11:00 PM (The unit operating)
OFF TIMER at 0:00 a.m.
ON TIMER at 7:00 a.m.



Notes on ON,OFF TIMER

When TIMER is set, the present time is not displayed.
 Once you set ON,OFF TIMER, the time setting is kept in the memory. (The memory is canceled when remote controller.)

ATTENTION -

- I TEN TON
 In the following cases, set the timer again.
 After a breaker has turned OFF.
 After a power failure.
 After replacing batteries in the remote controlle

Care and Cleaning

CAUTION -

Before cleaning, be sure to stop the operation and urn the breaker OFF.

Cleaning the air filters

filter inside of the unit.

- Remove the air inlet grille.
- 2 Pull out the air filters.
- 3 Clean the air filters.
- 4 Set the air filters and the air inlet grille

NOTE -

- In a dusty environment, clean the air filters at least once in every two weeks.
 Operation with dusty air filters lowers the cooling and heating capacity and wastes energy.

Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.

Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.

Check that the earth wire is not disconnected or broken.

Check that the drain comes smoothly out of the drain hose during COOL or DRY operation.

If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

Before a long idle period

Operate the fan alone for several hours on a fine day to dry out the inside.

1 Press MODE and select " * ".

2 Press TEMP and set the temperature to 32°C

- Perform this operation when the room temperature is under 28°C.
- 2 Clean the air filters and set them again.
- Take out batteries from the remote
- controller.
 Turn OFF the breaker for the room air

2P042644-16E



The air conditioners manufactured by Daikin Industries have received ISO 9000 series certification for quality assurance.

Certificate Number. (ISO9001) JQA-0486 JMI-0107 JQA-0495

(ISO9002) JQA-1452





The airconditioning factories of Daikin Industries have received environmental management system standard **ISO 14001** certification.

Shiga Plant Certificate Number. EC99J2044 Sakai Plant Certificate Number. JQA-E80009 Yodogawa Plant Certificate Number. EC99J2057

Dealer

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