# **USER'S MANUAL** MITSUBISHI WIRELESS KIT

### USER'S MANUAL ENGLISH

MANUEL DE L'UTILISATEUR FRANÇAIS

ANWENDERHANDBUCH DEUTSCH

ISTRUZIONI PER L'USO ITALIANO

MANUAL DEL PROPIETARIO ESPAÑOL

GEBRUIKERSHANDLEIDING NEDERLANDS

MANUAL DO UTILIZADOR PORTUGUÊS

ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ ΕΛΛΗΝΙΚΑ

РУКОВОДСТВО ПО ЗКСПЛУАТАЦИИ РУССКИЙ

KULLANIM KILAVUZU TÜRKÇE

## CE

This air conditioner complies with EMC Directive 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Directive 2006/95/EC. CE marking is applicable to the area of 50 Hz power supply.

Ce climatiseur est conforme à la Directive EMC: 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Directive 2006/95/EC. La marque CE s'applique aux régions alimentées en courant de 50 Hz.

Dieses Kimagerät erfüllt die EMC Direktiven 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Direktiven 2006/95/EC. Die CE-Marke gilt für Bereiche mit einer Netzstromversorgung von 50 Hz.

Questo condizionatore d'aria è conforme alla Direttiva EMC: 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Direttiva 2006/95/ EC.

Il marchio CE è applicabile alla fascia di alimentazione 50 Hz.

Este acondicionador de aire cumple con la directiva EMC: 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Directiva 2006/95/ EC.

La indicación CE sólo corresponde al área de suministro eléctrico de 50 Hz.

Deze airconditioner voldoet aan EMC Directive 89/336/EEC, 92/31/EEC, 93/68/EEC, LV Directive 2006/95/EC. CE-markering is van toepassing op het gebied met een netstroom van 50 Hz.

Este aparelho de ar condicionado está em conformidade com a Directiva EMC 89/336/CEE, 92/31/CEE, 93/68/CEE, a Directiva LV 2006/95/EC.

A marca CE aplica-se à zona de fornecimento de energia a 50 Hz.

Αυτό το κλιματιοτικό είναι σύμφωνο με τις προδιαγραφές των Οδηγιών EMC 89/336, 92/31 και 93-68 της ΕΟΚ και της Οδηγίας LV 2006/95/EC.

Το οήμα CE ισχύει μόνον σε περιοχές όπου η τροφοδοσία είναι 50 Hz.



Thank you very much for your purchase of this packaged air conditioning system produced by Mitsubishi Heavy Industries. Please read through this manual before using the product and use the product appropriately according to the instructions in the manual. After you have read the manual, store it with the warranty certificate in a safe place. It will help you when you have questions or problems. Apart from the remote controller operation, be sure to read the instruction manual enclosed with the indoor unit.

ENGLISH

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## SAFETY PRECAUTIONS

- Please read these "SAFETY PRECAUTIONS" before starting to use this product and use the product appropriately according to the instructions.
- The precautions provided here are classified into "A DANGER" and "A CAUTION". The "A DANGER" sections describe potentially hazardous situations that may lead to serious outcomes such as death and sericus injuries if the product is mishandled. Note, however, that depending on the situation, the items listed in the "CAUTION" sections do also have the potential of causing serious outcomes. Both warnings and cautions provide you important information related to safety; please make sure to observe them.
- The symbols used throughout the main text of this manual have the following meaning.

∆ marks mean danger, alarm, and caution. The specified prohibited item is described in the triangle. The left mark means "Shock hazard alarm".

O marks mean prohibited items. The specified prohibited item is described in the circle or in the vicinage.

marks mean compulsory action or instruction.
 The specified prohibited item is described in the circle. The left mark means "Earth is needed".

After you have read the manual, always store it where other users can refer to at any time. If a new owner takes over the system, make sure to pass this manual.

### **INSTALLATION PRECAUTIONS**

### **⚠ DANGER**

Make sure to have the installation done by your dealer or a specialist.

If you install by yourself and the unit is not properly installed, water leakage, electric shock, fire and injuries caused by the drop of the unit may occur.

The preventive measures that the density of leaked refrigerant does not exceed the limit is necessary in case of installing the unit in a small room.

The leakage of refrigerant may cause oxygen deficiency accident. Consult your dealer for the measures.

### **▲** CAUTION

#### Make sure to perform grounding work.

Do not connect grounding wire to any gas pipe, water pipe, conductor rods or telephones.Incomplete grounding may cause electric shock through leakage of electricity.

### Make sure to mount a leakage breaker.

Otherwise electric shock may occur. Please consult your dealer or a specialist for the mounting.

### Do not mount where flammable gas leakage can happen.

If leaked gas stagnates around the unit, the gas may cause fire.

Make sure to layout the drain pipe so that the water is completely drained. Otherwise, water may leak and wet household goods.

### **OPERATION PRECAUTIONS**

### **△ DANGER**

Do not expose yourself directly to cooled air for a long time or cool too much. It may be cause of deconditioning or health disorder.

Do not insert fingers or sticks into the air inlet or outlet grilles.

It may cause injuries because of the fan rotating at high speed.



### Do not touch the aluminum fin.

Otherwise it may lead to injuries.

Do not aloon the incide of the indeer unit by	· · · ·	
Do not clean the inside of the indoor unit by yourself. Make sure to consult your dealer or user inquiry counter specified by our company. If you select incorrect detergent or improper method, parts may be damaged and lead to water leakage. detergent is dropped on the electric component or me may lead to failure, smoking or ignition.	If the	Never perfor dealer for rep Improper repa shock or fire. it leaks and c or cooking he repairing refrig
Do not place objects on the outdoor unit, nor mount on it. It may lead to injuries resulting from dropping or falling.	$\bigcirc$	service staff the
During the operation or maintenance, do not use an unstable footrest. It may lead to injuries resulting from falling.	$\bigcirc$	Improper inst cause water le
During thunderstorm, stop the operation and turn off the switch. A lightning strike may lead to failure.	C	Before repair to turn off' In It can result in of indoor unit
After several seasons of operating, inspections and maintenances are required except routine care and cleaning. Accumulated dirt or dust inside the indoor unit may cause water leakage through the clogging of water discharging p dehumidification. Specialized information and skills are re for inspections and maintenances. Therefore contact your of	ipe for quired	"Indoor unit po Place the pan on the stable Otherwise, dro
Do not place any object around the outdoor unit, nor allow fallen leaves to pile up. Fallen leaves may induce insects and worms in them, and they may lead to failure, ignition or smoking by tou electric components.	<b>O</b> uching	
Do not use with inlet/outlet grilles or other panel removed. Otherwise, it may lead to injuries.	$\bigcirc$	
Do not operate or stop the unit by using the power supply switch. It may lead to fire or water leakage. If auto restart is set effectively, the fan may rotate suc causing injuries.	İdenly	
Do not touch blowout port when the swing louver moves. Otherwise, it may lead to injuries.	$\bigcirc$	
Do not strain the remote control cord. A part of core wire may be cut off causing electric leakage.	$\bigcirc$	
Do not use water heater etc. near the indoor unit or remote control. If a Vapor-generating appliance is used near them, it may lead to water drop causing electric leakage or short of	Sircuit.	
Do not use the unit where powder or fiber is floating. Fine powder or fiber passing through the air filter may stagnate inside the unit and lead to electric leak or short circuit.	$\bigcirc$	
Do not place objects under the unit which must avoid being exposed to water. Over 80 percent humidity or the clogging of drain pipe may damage them through dew dropping.	$\bigcirc$	

### PRECAUTIONS FOR WASTE DISPOSAL

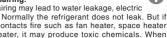


Your Air Conditioning product may be marked with this symbol. It means that waste electrical and electronic equipment (WEEE as in directive 2002/96/EC) should not be mixed with general household waste. Air conditioners should be treated at an authorized treatment facility for re-use, recycling and recovery and not be disposed of in the municipal waste stream. Please contact the installer or local authority for more information.

### PRECAUTIONS FOR RELOCATION OR REPAIRING

### **∧** CAUTION

m any modification. Contact your pairing.



ontacts fire such as fan heater, space heater ater, it may produce toxic chemicals. When gerant leakage, determine the service with the hat the repair has been finished without fault.

### ed to relocation and reinstall the unit. dealer or a specialist.

tallation of air conditioning unit may eakage, electric shock and/or fire.

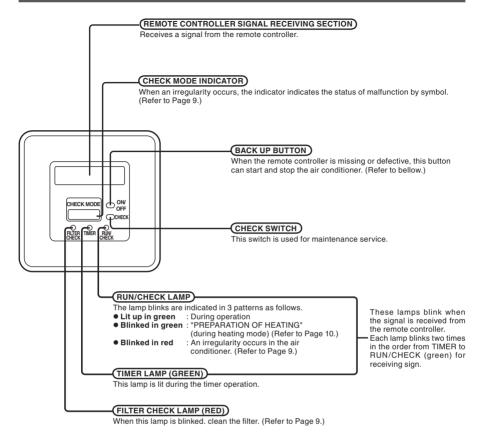
#### ring or checking indoor unit, be sure door unit power supply breaker".

electric shock or injury due to rotation fan if you perform check or repair with the ower supply breaker" turned on.

els removed for repairing or checking spot.

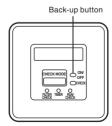
opping or falling may lead to injury.

### **INDICATION BOARD**



### **BACK UP BUTTON**

• When the batteries are exhausted or if the remote controller is missing or defective, this button can be used to start or stop the air conditioner in the makeshift mode.



The air conditioner starts. Set items are as follows.		
Operation mode	With auto mode: auto cooling Without auto mode: cooling	
Set temperature	23°C	
Fan speed	HI	
Air flow direction	Horizontal	
Timer	Invalid	

## NAMES AND FUNCTIONS OF REMOTE CONTROLLER BUTTON

WIRELESS REMOTE CONTROLLER	• All displays are described in the liquid crystal display for explanation
----------------------------	--

tion	ection	ROOM TEMP display	2	AIR FLOW displ Indicates the status OPERATION MO Indicates selected
	splay sec	NTINE LED GIPPENT Indicates the selected air flow volume. ON-TIMER display Indicates when ON-TIMER is set, resee page 7 ON TIMER display Indicates when ON-TIMER is set, resee page 7 ON TIMER display ON TIMER display		FILTER display Indicates for two button is pressed
	Disp	Indicates the ON-TIMER setting time. Nothing displayed when ON-TIMER isn't set.		OFF-TIMER set
		erSee page 7 Transmitter Sends signal to the air conditioner.		current time when ON/OFF button
	peration section	Sens signal to the air conductorer. FAN SPEED button Every time this button is pressed, the mode is switched as below. FILTER button FILTER button Filter button only after completing the filter cleaning. ON TIMER button ON TIMER button Sets ON TIMER portation. #See page 7 OFF TIMER button Sets OFT TIMER operation. #See page 7		<ul> <li>ON/OFF button</li> <li>When this is press operate and when operating.</li> <li>AIR FLOW butto</li> <li>Used to swing the OPERATION MG Every time this but</li> <li>COMMUNICATION # (COMMUNICATION A Set (FAN)</li> <li>ROOM TEMP/TIM Sets room tempera</li> <li>Sets time when se</li> </ul>
	Ope	TIME SET UP switch		SETTING CH
		Sets current time, e=See page 6 ACL switch Used to reset the microcomputer. TIMER CANCEL button Used to reset the TIMER SETTINGS.		Auto mode of be selected controller to of While pressin the ACL of

NOTICE If the display of remote controller has troubles, press ACL switch.

### WIRELESS REMOTE CONTROLLER HANDLING PROCEDURE

### REPLACING THE BATTERIES

If the following occurs, the batteries are exhausted. Replace with new ones.

• When the signal is transmitted, the receiver does not display reception.

• The display fades away or does not show anything.

- 1 Pull out the cover.
- 2 Replace the old batteries with new ones. (R03×2)
- 3 Close cover.
- 4 Adjust the current time.
- When any error occurs on the display,
  - Press ACL switch with ( a ballpoint etc.

### NOTICE

If the remote controller is set as "Radio Interference Prevention Setting", it returns to default when the batteries are removed. It is necessary to perform the next procedures again.

When the batteries are inserted, each operation mode is set as the right figure. Adjust the current time referring to page 6. (The figure is while operation, and only the current time is displayed while stopping)

How to set Radio Interference Prevention Setting

It is possible to sent two way. Press [ACL] switch with [AIR FLOW] button kept pressing or Insert the batterles with [AIR FLOW] button kept pressing.

### ATTENTION

- Do not use old and new batteries mixed.
- Remove the batteries when the remote controller is not used for a long time.
- The recommendable effective period of a battery is about 6 to 12 months. (It depends on the usage.)
- The recommendable effective period is printed on the battery. This may be shorter due to manufacturing time of the unit.
- However the battery may be still working in order after expiry date.



is of swing louver. ISSee page 8 ODE display operation with seconds when FILTER Ы nlav F-TIMER is set. ∞See page 7 ting time display IER setting time. Indicates the the OFF-TIMER is not set. I®See page 7 ed once the AIR CON starts to this is pressed once again, it stops Jouver ISSee name 8 ODE select button tton is pressed, displays switch as below COOL) → ⇔(HEAT) ¬ + (DRY) • MF. SETTING button ature by pressing or button.

### SETTING CHANGE OF AUTO MODE OPERATION

Auto mode operation of the KX (except KXR) cannot be selected. For these models, set the remote controller to disable the auto mode operation. While pressing the <u>MODE</u> button and then press the <u>IACL</u> switch, or while pressing the <u>MODE</u> button and then insert the batteries to the remote controller, then the auto mode is invalid.

### ATTENTION

When the batteries are removed, the system is returned to initial setting (auto mode is valid). In case that removing the batteries in the remote controller, perform the above operation once again.

#### HOW TO OPERATE

When you press each button of wireless remote controller, directing properly to the receiver, the signal is transmitted. If the air conditioner receives the signal correctly, the light of operation indicator will flash.

### ATTENTION

The operation of remote controller must be performed slowly and steadily.

#### ABOUT REMOTE CONTROLLER HOLDER

The remote controller can be mounted on the wall or pillar with the remote controller holder.

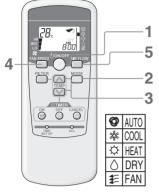
Slide from the upper part of the holder to place or take out the remote controller.

### ATTENTION

- Do not place the remote controller to the following places.
  - The place exposed to direct sunlight or other strong lighting.
  - The place exposed to high temperature, for EXAMPLE, on the electric carpet or near a stove.
- If the receiver is exposed to direct sunlight or other strong lighting, it may not receive the signal. In this case, shut out the sunlight or turn down the lighting.
- Do not place anything between the remote controller and the unit.
- Do not operate the remote controller for other electric appliances which can be operated with a remote controller.
- Handle it with utmost attention.
- Even if the remote controller is not found or damaged, you can operate the air conditioner with itself. See "Backup button" on page 4.

## HOW TO OPERATE

- ATTENTION . Turn on the power supply of both indoor/outdoor units for six hours before starting the unit to protect the units. (The crankcase is conducted and the compressor is heated) Do not turn off the power supply. (The crankcase heater is conducted while the compressor is stopped, preventing failure of the compressor due to accumulation of liquid refrigerant by keeping the compressor warm.)
  - The operation of remote controller must be performed slowly and steadily.



- Guideline of room temperature setting
- DRY ......21 to 24°C
- FAN.....TEMP setting is
  - unnecessarv
- · Operation mode can be changed even when the unit stops.
- If you operate under the same condition (operation mode, set temperature, airflow, louver) iust follow step 1, no other operations are necessary. The conditions which were set previously are indicated on the remote controller.

### OPERATION

#### 1 Press () ON/OFF button.

The operation display light (Green) turns on, and the operation starts. The setting status is displayed on the liquid crystal area on the remote controller.

### 2 Press MODE button.

Current operation mode is indicated with the marks besides the operation mode icons. The mode will change in the following order by pressing the button. r @ (AUTO) → & (COOL) → ⇔ (HEAT)-≇ (FAN) ← ◊ (DRY) •

### 3 Press TEMP button.

Set the room temperature by pressing [V] or [A] bbutton.

### 4 Press FAN SPEED button.

ightarrow HI ightarrow MED ightarrow LO ightarrow FAN SPEED can be changed in order.

### 5 Press AIR FLOW button.

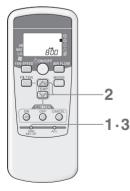
Effective AIR FLOW direction INF see page 8 AUTO mode operation ......Intermediate Cooling, dehumidifying mode....Horizontal Downwards Heating mode .....

Stop Press () ON/OFF button

## **CURRENT TIME SETTING PROCEDURE**

The timer is set based on the current time. Adjust the current time correctly at first of all.

### [EXAMPLE] AM (morning) 8:00 setting



Press TIME SET UP switch.

Press it with the tip of ballpoint etc. The time display blinks and can be set to the current time.

### 2 Press 🕅 or 🔊 button to adjust to AM 8:00.

Morning : AM Afternoon : PM

- The displayed time changes by 1 minutes when pressing the button.
- If v or button is pressed during the blinking, fast-forward or fastbackward can be done.

### NOTICE

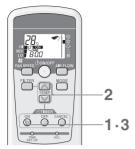
• In case the buttons are not pressed for 60 seconds, the displayed time is set as current time without step 3.

### 3 Press TIME SET UP switch.

The display changes from blinking to steady lighting and the setting is completed.

## ON – TIMER OPERATION

Operation is started at the setting time.



In case the ON TIMER is set while the air conditioner is in operation, it will be stopped and ready for restart at the setting time.

### [EXAMPLE] If you would like to start the operation at AM 8:00

- 1 Press ON TIMER button. ON TIMER display
- 2 Press 🕅 or 🔊 button to adjust to AM 8:00.

Displayed time will be changed by 10 minutes by pressing the buttons.

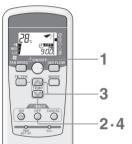
- 3 Press ON TIMER button.
  - ON TIMER display () on changes from blinking to steady lighting and the setting is completed.
    - (Press within 60 seconds) TIMER display lamp of the receiver is lit.
  - At AM 8:00. TIMER display lamp turns off and the air conditioner will start operating

#### Cancellation

- Press CANCEL button to turn off the TIMER display and timer is canceled. After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled.
- Time change Press ON TIMER button to set again.

## OFF – TIMER OPERATION

Operation is stopped at the setting time.



### [EXAMPLE] If you would like to stop the operation at PM 9:00

Press ON/OFF button when the air conditioner stops. The air conditioner starts to operate.

OFF TIMER can be set only in case the air conditioner is in operation.

- 2 Press OFF TIMER button.
  - OFF TIMER display (4)
- 3 Press or button to adjust to PM 9:00.

Displayed time will be changed by 10 minutes by pressing the buttons.

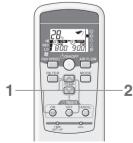
- Press OFF timer button.
  - OFF TIMER display the setting is completed. (Press within 60 seconds) TIMER display lamp of the receiver is lit.
  - At PM 9:00, TIMER display lamp turns off and the air conditioner will stops operating.

### Cancellation

- Press CANCEL button to turn off the TIMER display and timer is canceled.
- After TIMER setting, if ON/OFF button is pressed before the setting time, TIMER display turns off and the TIMER is canceled
- Time change Press OFF TIMER button to set again.

### **PROGRAM TIMER OPERATION**

By setting both ON TIMER and OFF TIMER, the settings turn into PROGRAM timer mode. Operation and stopping can be performed at the same time of each day by setting program timer once.



#### Set ON TIMER. 1

Press ON TIMER button and set the time with I or A button. Press ON TIMER button again.

#### 2 Set OFF TIMER.

Press OFF TIMER button and set the time with  $\mathbb{N}$  or  $\mathbb{A}$  button. Press OFF TIMER button again. Both ON TIMER and OFF TIMER are displayed. The direction of arrow mark changes depending on the status of operation. (i) ON →(i) OFF (i) ON ←(i) OFF

(stop)

(operating)

### ■ Cancellation

- Press CANCEL button to turn off the PROGRAM timer display and timer is canceled. (Operation condition is kept as before the button is pressed.)
- If ON/OFF button is pressed during TIMER operation, TIMER display turns off and the TIMER is canceled. The air conditioner stops operating.

### Changing the set time

Press OFF TIMER button or ON TIMER button to set again.

### NOTICE

The same time cannot be set for OFF TIMER and ON TIMER.

## HOW TO ADJUST THE LOUVER

### UP AND DOWN ADJUSTING

### How to move swing louver



Press AIR FLOW button when the air conditioner is in operation.

• The swing louver moves up and down, and the display moves too. NOTICE

The actual movement of swing louver and that of display are not synchronized but this is not a failure.



continuous movement of display

position (when fixed)

Recommended air frow direction

000

00

AUTO

HEAT

### To fix the position of the swing louver

Press AIR FLOW button when the louver position indication comes to the position where you would like to fix it.

• Auto swing display stops at the position and then the swing louver stops and be fixed. NOTICE

Press the button and auto swing display stops immediately, then the swing louver stops later, but this is not a failure. (Auto swing display and the actual louver movement of the air conditioner are not synchronized)

### The swing louver movement during heat preparation

When "heat preparation" is displayed, the position of the swing louver sets horizontal automatically. (The display of remote controller keeps the set position)

When heat preparation ends and normal operation starts, the position of the swing louver returns to the set position.

### CAUTION

Do not set the position of the swing louver downwards for a long time. Dew formation on the side panel may drop. (in case of FDE)

### FOR COMFORTABLE USE

### Clean the filter frequently

The filter should be cleaned when the "Filter cleaning" message is displayed, and at the end of cooling and heating seasons

#### If the filter is clogged ...

- . The cooling/heating capacity will get reduced. Moreover it leads to waste of electricity and larger operation noise.
- · It may cause failure
- Dew may form and drop during cooling.

#### Do not block the inlet and outlet grilles of the indoor and outdoor units.

Excessive load to the unit may cause failure.

#### Keep moderate room temperature

Too much cooling or heating is not good for your health. It will also waste the electricity.

#### Block direct sunlight and avoid draft

Block direct sunlight with blinds or curtains during cooling. Close the windows and doors except when ventilation is necessarv.

### Adjust the airflow properly

Do not expose yourself directly to the airflow for too long time. For small animals and plants, it is harmful as well.

### If you feel cold underneath your feet during heating

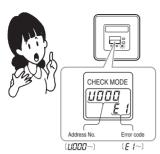
If the ceiling is so high that the warm airflow does not circulate underneath your feet, it is recommended to use a circulator. Consult your dealer for more detail.

#### Stop the operation and turn the power supply off if there are any possibility of lightning strike during a thunderstorm

Lightning strike may lead to the failure of air-conditioning system.

## WHEN A RED INDICATION LAMP IS LIT

### WHEN THE RUN/CHECK LAMP (RED) IS BLINKED



- An irregularity has occurred in the air conditioner.
- When the RUN/CHECK lamp starts blinking in red, the air conditioner stops.
- · Address No. and error code are displayed on the check mode indicator.
- Please contact your dealer and inform them "address No. and error code","symptom of the trouble","air conditioner type" and "model name" etc.
- Press the ON/OFF button to stay the air conditioner on the stop mode.

### NOTICE

The outside unit No. is not displayed.

### WHEN THE FILTER CHECK LAMP (RED) IS LIT

### Clean the filter.

- When cumulative running time reaches 120 hours, long flashing light (light for 2 seconds, wink out for 1 second) is shed from the filter check lamp (red).
- After cleaning of filter, press the FILTER button on the remote controller to turn off the filter cleaning sign. (Press the button for one second or more)

### NOTICE

The cumulative running time for filter sign can be changed. Consult your dealer for more information.

### PREPARATION OF HEATING

### CASES WHEN THE RUN/CHECK LAMP (GREEN) IS BLINKED (PREPARATION OF HEATING)

### PREPARATION OF HEATING is displayed in the following cases.

### • At Starting Heating Operation

In order to avoid cool air from blowing out, the airflow into the room may be stopped depending on the room temperature at the start of heating operation. please wait for a while and the operation automatically switches to the normal heating operation.

### · At defrost operation (during heating operation)

When frost may easily formed on the outdoor unit, the heating operation automatically is stopped (both indoor/outdoor unit stop fan operation) for approximately 5 to 10 minutes per hour and defrosting is operated. After the defrosting is complete, the operation automatically switches back to the normal operation.

### HEATING OPERATION

### Heat pump type

Heat pump type heating is the heating mechanism in which the refrigerant takes in outer temperature to supply heat into the room.

Defrost operation

During heating with a heat pump type air conditioner, frost will be formed on the outdoor unit if the temperature outside the room drops. If left alone, the heating efficiency decreases. In order to deal with this, the operation is automatically switched to defrost operation to remove the frost. During the period, the airflow of indoor/outdoor unit is stopped and "heating defrost" is displayed.

- Outer air temperature and heating capacity
- The heating efficiency of heat pump type air conditioner decreases as the outside temperature becomes lower. If the capacity of air conditioner for heating is not sufficient, please use other heating device.
- Time required until the room temperature increases
   A heat pump type air conditioner circulates warm air to warm the entire room, so it takes a while to rise up the room temperature. It is recommended to start operation earlier on a very cold day.
   When room temperature adjusting device operates during heating

If room temperature adjusting device operature adjusting device is activated, the airflow becomes automatically low. When the room temperature drops, it switched back automatically to the normal operation.

### OPERATION RANGE

ATTENTION Please use the system in the following operation range. If the system is operated outside this range, the protection controls may be activated to avoid malfunction.

Operation Condition	Room temperature	Outside air temperature	Indoor humidity
Cooling operation	Approximately 21 to 32°C Long continuous operation under	Approximately -5 to 43°C	Approximately 80% or less Long operation under high humidity may leads to
Dry operation	approximately 21°C may lead to malfunction due to dewfall		waterdrop or smoky vapor at the supply air grille.
		Approximately -10 to 21°C	
Heating operation	27°C or less	If outside air temperature becomes low, the heating efficiency is lowed and the heating becomes difficult.	

(Note) Operation range may differ depending on models .Please check the catalog.



### **AIR-CONDITIONING & REFRIGERATION SYSTEMS HEADQUARTERS**

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