

AY-XP9FR-N
AY-XP12FR-N
AY-XP12GR-N

SPLIT TYPE
ROOM AIR CONDITIONER

OPERATION MANUAL

New Refrigerant
R410A

INDOOR UNIT

OUTDOOR UNIT

AY-XP9FR-N	AE-X9FR-N
AY-XP12FR-N	AE-X12FR-N
AY-XP12GR-N	AE-X12GR-N

*Plasmacluster is a trademark of SHARP Corporation.



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.

*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users.

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your IVT dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

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IMPORTANT SAFETY INSTRUCTIONS

WARNINGS FOR USE

- 1** Do not pull or deform the power supply cord. Pulling and misuse of the power supply cord can result in damage to the unit and cause electrical shock.
- 2** Be careful not to expose your body directly to the outlet air for a long time. It may affect your physical conditions.
- 3** When using the air conditioner for infants, children, elderly, bedridden, or disabled people make sure the room temperature is suitable for those in the room.
- 4** Never insert objects into the unit. Inserting objects can result in injury due to the high speed rotation of internal fans.
- 5** Ground the air conditioner without fail. Do not connect the grounding wire to gas pipe, water pipe, lightning rod or telephone grounding wire. Incomplete grounding may cause electric shock.
- 6** If anything is abnormal with the air conditioner (ex. a burning smell), stop the operation immediately and turn the circuit breaker OFF.
- 7** The appliance shall be installed in accordance with national wiring regulations. Improper cable connection can cause the power supply cord, plug and the electrical outlet to overheat and cause fire.
- 8** If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard. Use only the manufacture-specified power cord for replacement.

WARNINGS FOR INSTALLATION/REMOVAL/REPAIR

- Do not attempt to install/remove/repair the unit by yourself. Incorrect work will cause electric shock, water leak, fire etc. Consult your dealer or other qualified service personnel for the installation/removal/repair of the unit.

IMPORTANT SAFETY INSTRUCCIONES

CAUTIONS FOR USE

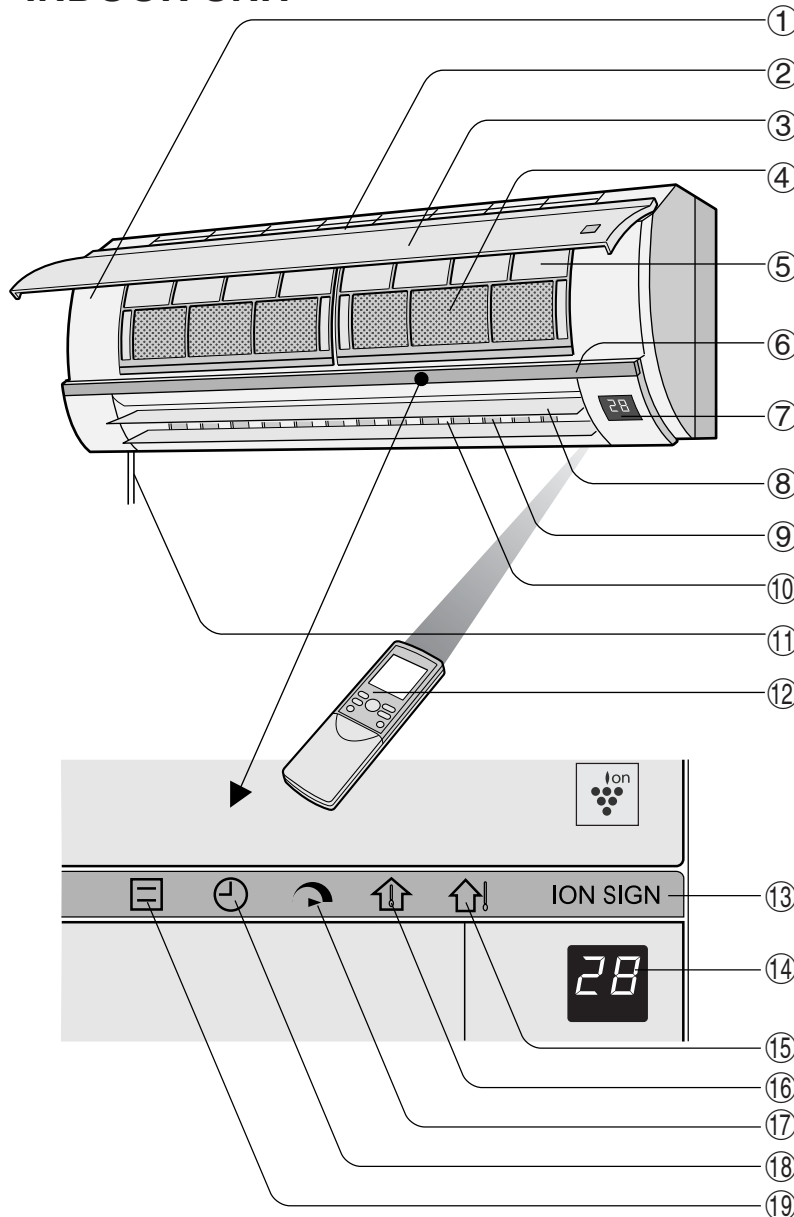
- 1** Open a window or door periodically to ventilate the room, especially when using gas appliances. Insufficient ventilation may cause oxygen shortage.
- 2** Do not operate the buttons with wet hand. It may cause electric shock.
- 3** For safety, turn the circuit breaker off when not using the unit for an extended period of time.
- 4** Check the outdoor unit mounting rack periodically for wear and to make sure it is firmly in place.
- 5** Do not put anything on the outdoor unit nor step on it. The object or the person may fall down or drop, causing injury.
- 6** This unit is designed for residential use. Do not use for other applications such as in a kennel or greenhouse to raise animals or grow plants.
- 7** Do not place a vessel with water on the unit. If water penetrates into the unit, electrical insulations may deteriorate and cause electric shock.
- 8** Do not block the air inlets nor outlets of the unit. It may cause insufficient performance or troubles.
- 9** Be sure to stop the operation and turn the circuit breaker off before performing any maintenance or cleaning. A fan is rotating inside the unit and you may get injured.
- 10** Do not splash or pour water directly on the unit. Water can cause electrical shock or equipment damage.
- 11** This appliance is not intended for use by young children or infirm persons without supervision.
Young children should be supervised to ensure that they do not play with the appliance.






CAUTIONS FOR LOCATION/INSTALLATION

- Make sure to connect the air conditioner to power supply of the rated voltage and frequency.
Use of a power supply with improper voltage and frequency can result in equipment damage and possible fire.
- Do not install the unit in a place where inflammable gas may leak. It may cause fire.
Install the unit in a place with minimal dust, fumes and moisture in the air.
- Arrange the drain hose to ensure smooth drainage. Insufficient drainage may cause wetting of the room, furniture etc.
- Make sure a leak breaker or a circuit breaker is installed, depending on the installation location, to avoid electrical shock.

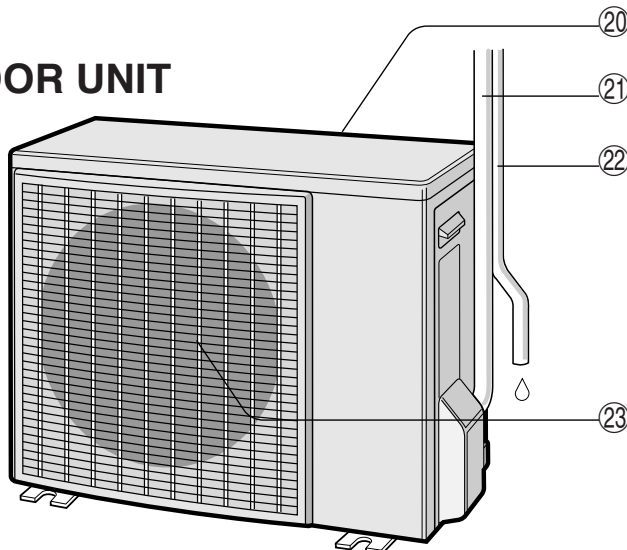
PART NAMES

INDOOR UNIT



- ① AUX. Button
- ② Inlet (Air)
- ③ Open Panel
- ④ Deodorant Dust Collection Filter (non-washable)
- ⑤ Air Filters
- ⑥ Indicator
- ⑦ Receiver Window
- ⑧ Vertical Adjustment Louvres
- ⑨ Horizontal Adjustment Louvres
- ⑩ Outlet (Air)
- ⑪ Power Supply Cord
- ⑫ Remote Control
- ⑬ PLASMACLUSTER Lamp (blue)
- ⑭ TEMPERATURE INDICATOR
- ⑮ OUTDOOR Temp. Lamp (green )
- ⑯ ROOM Temp. Lamp (green )
- ⑰ FULL POWER Lamp (green )
- ⑱ TIMER Lamp (orange )
- ⑲ OPERATION Lamp (red )

OUTDOOR UNIT

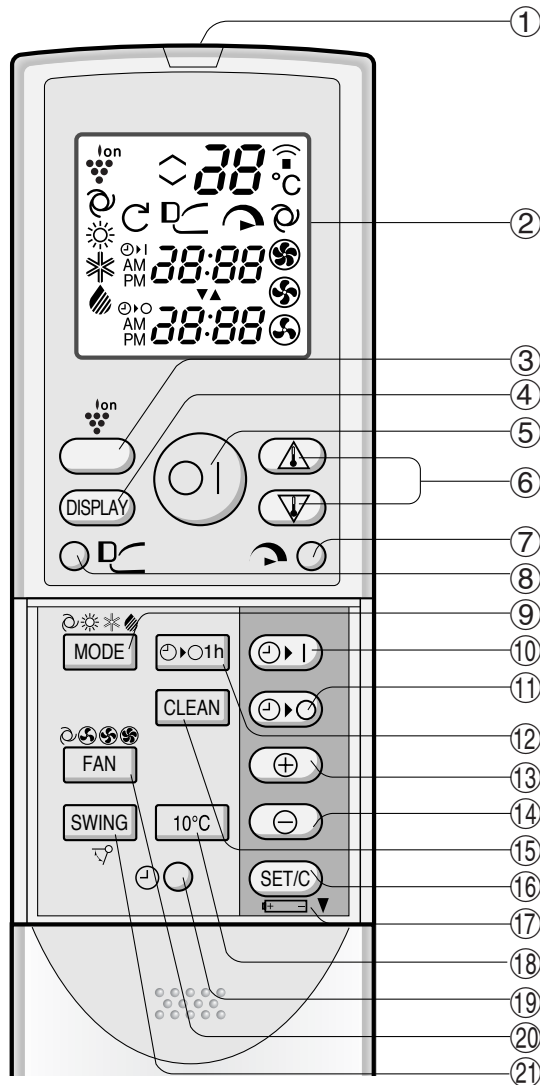


- ⑳ Inlet (Air)
- ㉑ Refrigerant Tube and Interconnecting Cord
- ㉒ Drainage Hose
- ㉓ Outlet (Air)

NOTE: Actual units might vary slightly from those shown above.

PART NAMES

REMOTE CONTROL



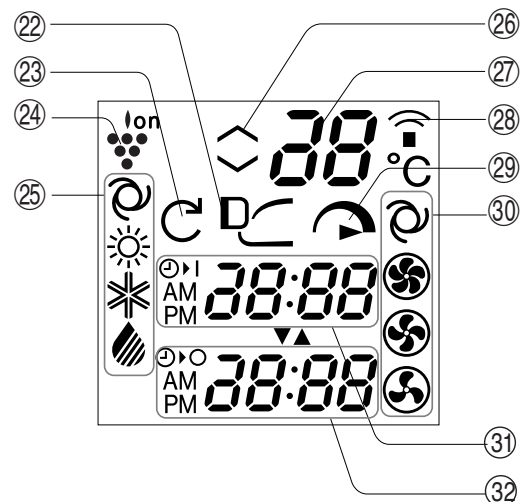
- ① TRANSMITTER
- ② DISPLAY (Liquid Crystal Display)
- ③ PLASMACLUSTER Button
- ④ DISPLAY Button
- ⑤ ON/OFF Button
- ⑥ THERMOSTAT Button
- ⑦ FULL POWER Button
- ⑧ PROGRESSIVE AIRFLOW Button
- ⑨ MODE Button
- ⑩ TIMER ON Button (for setting the timer)
- ⑪ TIMER OFF Button (for setting the timer)
- ⑫ ONE-HOUR OFF TIMER Button
- ⑬ TIME ADVANCE Button
- ⑭ TIME REVERSE Button
- ⑮ SELF CLEAN Button
- ⑯ TIMER SET/CANCEL Button
- ⑰ Indicates BATTERY COMPARTMENT is below this mark
- ⑱ 10°C Button
- ⑲ CLOCK Button
- ⑳ FAN Button
- ㉑ SWING Button

L.C.D. REMOTE CONTROL DISPLAY

- ㉒ PROGRESSIVE AIRFLOW SYMBOL
- ㉓ SELF CLEAN SYMBOL
- ㉔ PLASMACLUSTER SYMBOL
- ㉕ MODE SYMBOLS

: AUTO	: DRY
: HEAT	: COOL
- ㉖ THERMOSTAT SETTING FOR AUTO AND DRY MODES
- ㉗ TEMPERATURE INDICATOR
- ㉘ TRANSMITTING SYMBOL
- ㉙ FULL POWER SYMBOL
- ㉚ FAN SPEED SYMBOLS

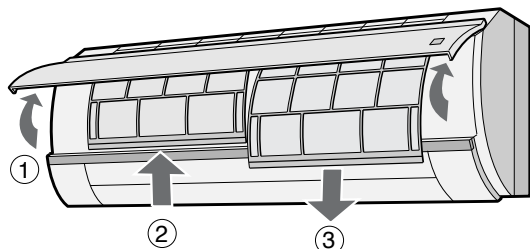
: AUTO	: LOW
: HIGH	: SOFT



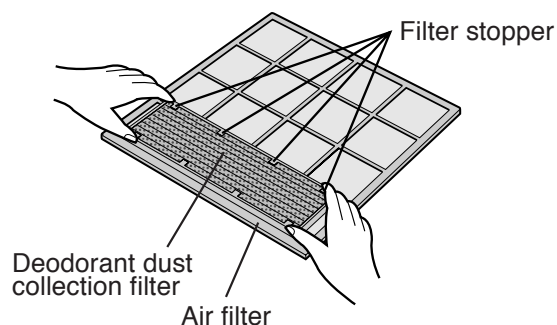
- ㉓1 TIMER ON INDICATOR/CLOCK
Indicates the on timer preset time or current time.
- ㉓2 TIMER OFF INDICATOR
Indicates the preset time for off timer or one-hour off timer.

SETTING DEODORANT DUST COLLECTION FILTER

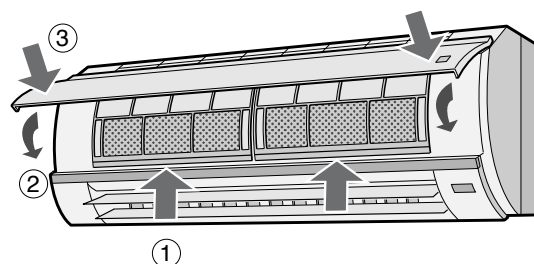
The deodorant dust collection filters are packed as accessory of this unit. During operation of the air conditioner, the filters remove dust and tobacco smoke from the air and discharges clean air.



- 1** Take out the air filters.
 - ① Open the open panel.
 - ② Push the air filters up slightly to unlock them.
 - ③ Pull the air filters down to remove them.



- 2** Set the deodorant dust collection filter under the filter stoppers located on the air filter.



- 3** Reinstall the air filters
 - ① Reinstall the air filters in the original positions.
 - ② Close the open panel.
 - ③ Push the arrow-marked of the panel firmly to lock it in place.

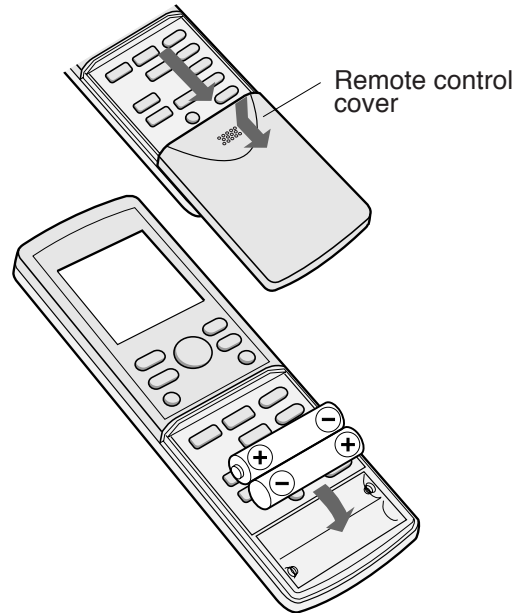
Precautions

- The filters are sealed in a plastic bag to keep their dust collection effect. Do not open the bag until using the filters. (Otherwise the filters life may get shorter.)
- Do not expose the filters to direct sunlight. (Otherwise they may deteriorate.)

USING THE REMOTE CONTROL

LOADING BATTERIES Use two size-AAA (R03) batteries.

- 1 Remove the remote control cover.
- 2 Insert batteries in the compartment, making sure the \oplus and \ominus polarities are correctly aligned.
 - The display indicates "AM 6:00" when batteries are properly installed.
- 3 Reinstall the cover.



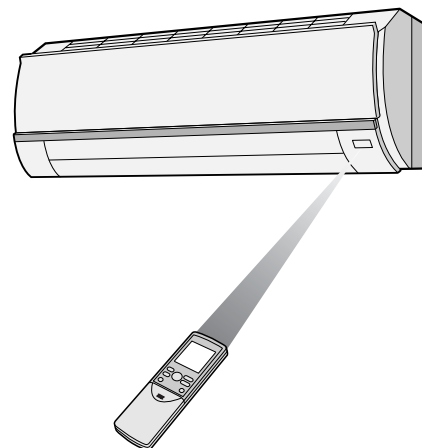
NOTES:

- The battery life is approximately one year in normal use.
- When you replace the batteries, always change both batteries, and make sure they are the same type.
- If the remote control does not operate properly after replacing the batteries, take out the batteries and reinstall them again after 30 seconds.
- If you will not be using the unit for a long time, remove the batteries from the remote control.

HOW TO USE THE REMOTE CONTROL

Point the remote control towards the unit's signal receiver window and press the desired button. The unit generates a beep when it receives the signal.

- Make sure there is no curtain or other object between the remote control and the unit.
- The remote control can send signals from up to 7 metres away.





CAUTION

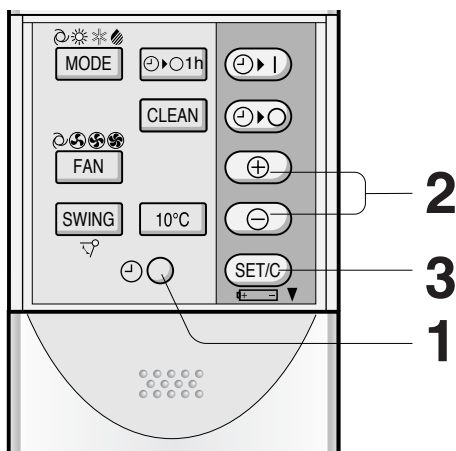
- Do not allow the signal receiver window to receive strong direct sunlight, since it can adversely affect its operation. If the signal receiver window is exposed to direct sunlight, close a curtain to block the light.
- Using a fluorescent lamp with a quick starter in the same room may interfere with transmission of the signal.
- The unit can be affected by signals transmitted from the remote control of a television, VCR or other equipment used in the same room.
- Do not leave the remote control in direct sunlight or near a heater. Also, protect the unit and remote control from moisture and shock which can discolour or damage them.

SET CURRENT CLOCK TIME

There are two clock modes: 12-hour mode and 24-hour mode.

Example: 5 o'clock in the afternoon

Clock	Display
12-hour mode	PM 5:00
24-hour mode	17:00

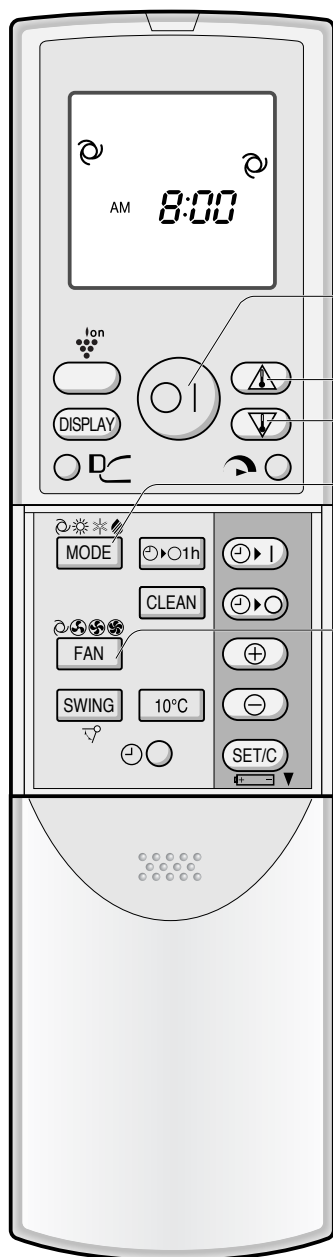


- 1** To set to the 12-hour mode, press the CLOCK button once in the first step.
To set to the 24-hour mode, press the CLOCK button twice in the first step.
- 2** Press the TIME ADVANCE or REVERSE button to set the current time.
 - Keep the button pressed to advance or reverse the time display quickly.
- 3** Press the SET/C button.
 - The colon (:) blinks to indicate that the clock is functioning.

NOTE:

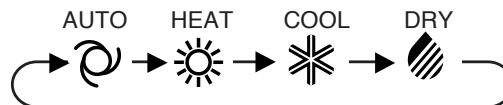
- The current time cannot be set when the timer is operating.

BASIC OPERATION



1

Press the MODE button to select the operation mode.



2

Press the ON/OFF button to start operation.

- The red OPERATION lamp () on the unit will light.

2

5

3

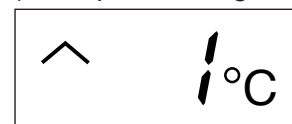
3

Press the THERMOSTAT button to set the desired temperature.

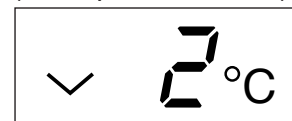
AUTO/DRY MODE

- The temperature can be changed in 1°C increments within the range of 2°C higher to 2°C lower from the temperature automatically determined by the air conditioner.

(Example: 1°C higher)



(Example: 2°C lower)

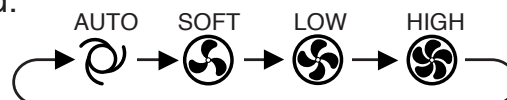


COOL/HEAT MODE

- The temperature can be set within the range of 18 to 32°C.

4

Press the FAN button to set the desired fan speed.



- In the DRY mode, the fan speed is preset to AUTO and cannot be changed.

5

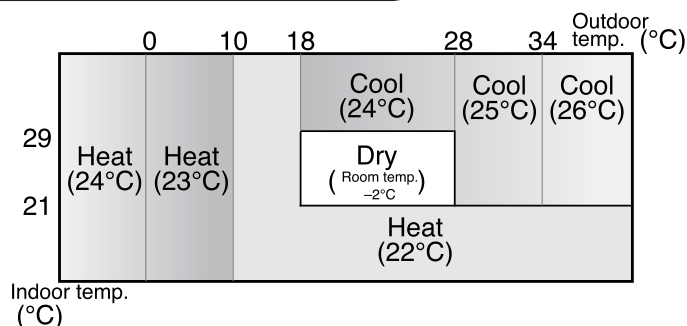
To turn off the unit, press the ON/OFF button again.

- The red OPERATION lamp () on the unit will turn off.

TIPS ABOUT AUTO MODE

In the AUTO mode, the temperature setting and mode are automatically selected according to the room temperature and outdoor temperature when the unit is turned on.

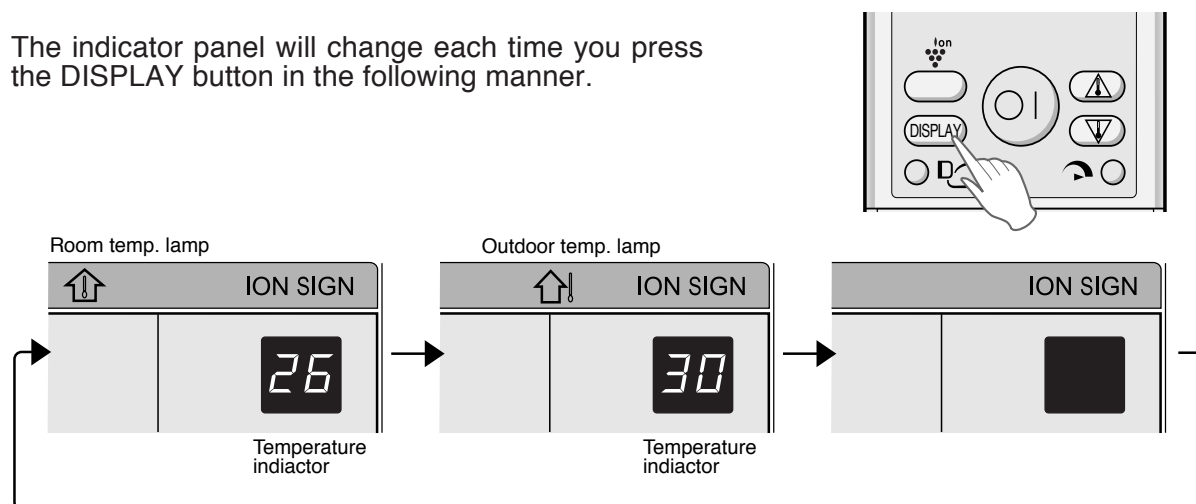
Modes and Temperature Settings



During operation, if the outdoor temperature changes, the temperature settings will automatically slide as shown in the chart.

TIPS ABOUT INDICATOR PANEL

The indicator panel will change each time you press the DISPLAY button in the following manner.



The room temperature is displayed.

The outdoor temperature is displayed.

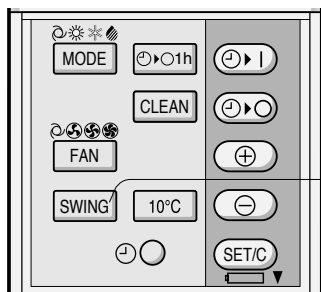
No display.

NOTES:

- The displayed temperatures are rough estimates and may vary from the actual temperatures.
- Temperature display ranges
Room temperature: 0°C ~ 40°C (L is displayed when less than 0°C and H, when higher than 40°C)
Outdoor temperature: -9°C ~ 45°C (L is displayed when less than -9°C and H, when higher than 45°C)
- is displayed during the first 60 seconds of operation while the temperatures are being detected.
- Only the room temperature can be displayed for 5 seconds when the unit is not in operation.
- During SELF CLEAN operation, the indicator panel will display remaining time of the operation. Room and outdoor temperature will not be displayed even if you press the DISPLAY button.

ADJUSTING THE AIR FLOW DIRECTION

VERTICAL AIR FLOW DIRECTION



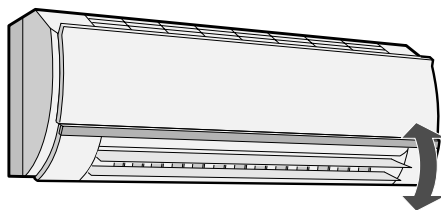
1
2

1 Press the SWING button on the remote control once.

- The vertical adjustment louvres will change its angle continuously.

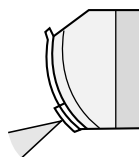
2 Press the SWING button again when the vertical adjustment louvres are at the desired position.

- The louvre will stop moving within the range shown in the diagram.
- The adjusted position will be memorized and will be automatically set to the same position when operated the next time.

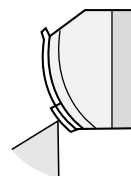


Adjustment range

COOL and DRY modes

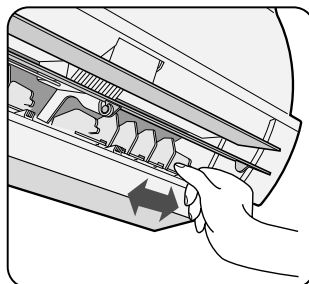


HEAT mode

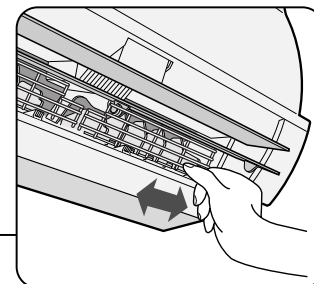
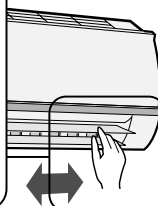


HORIZONTAL AIR FLOW DIRECTION

Hold the horizontal adjustment louvre as shown in the diagram and adjust the air flow direction.



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CAUTION

Never attempt to adjust the vertical adjustment louvres manually.

- Manual adjustment of the vertical adjustment louvre can cause the unit to malfunction when the remote control is used for adjustment.
- When the vertical adjustment louvre is positioned at the lowest position in the COOL or DRY mode for an extended period of time, condensation may result.

Do not adjust the horizontal adjustment louvre to the extreme left or right in the COOL mode with the fan speed set to "SOFT ()" for an extended period of time.

Condensation may form on the louvres.

PROGRESSIVE AIRFLOW

Press the **PROGRESSIVE AIRFLOW** button during cooling or dry operation when you do not want to feel cold air. Vertical adjustment louvres are set obliquely upward to deliver cool air to the ceiling.

Press the button during heating operation. Vertical adjustment louvres are set downward to deliver the warm air down to the floor and warm you.



- 1** During operation, press the **PROGRESSIVE AIRFLOW** button.

- The remote control will display .

TO CANCEL

Press the **PROGRESSIVE AIRFLOW** button.

NOTES:



- The **PROGRESSIVE AIRFLOW** setting is cancelled when you press **FULL POWER** button while **PROGRESSIVE AIRFLOW** is set.
- If you want **PROGRESSIVE AIRFLOW** operation in **FULL POWER** mode, press **PROGRESSIVE AIRFLOW** button during **FULL POWER** operation.

FULL POWER OPERATION

In this operation, the air conditioner works at maximum power to makes the room cool or warm so rapidly that you can use it just after you come home.




- 1** To activate the **FULL POWER** operation, press the **FULL POWER** button during operation.

- The remote control will display .
- The temperature display will go off.
- The green **FULL POWER** lamp () on the unit will light up.

TO CANCEL

Press the **FULL POWER** button again.

- **FULL POWER** operation will also be cancelled when the operation mode is changed, or when the unit is turned off.
- The green **FULL POWER** lamp () on the unit will turn off.

NOTE:


- You can not set the temperature or fan speed during the **FULL POWER** operation.

PLASMACLUSTER OPERATION

The Plasmacluster Ion generator inside the air conditioner will release positive and negative plasmacluster ions into the room.
Approximately the same numbers of positive and negative ions released into the air will reduce some airborne mold.



1 During operation, press the PLASMACLUSTER button.

- The remote control will display “”
- The blue PLASMACLUSTER lamp on the unit will light up.

TO CANCEL

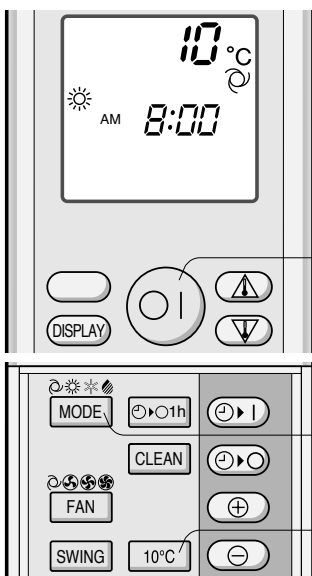
- Press the PLASMACLUSTER button again.
- The PLASMACLUSTER lamp on the unit will turn off.

NOTES:

- Use of the PLASMACLUSTER operation will be memorized, and it will be activated the next time you turn on the air conditioner.
- To turn off the PLASMACLUSTER lamp, press the DISPLAY button.
- When the PLASMACLUSTER button is pressed while the unit is not operating, the PLASMACLUSTER operation will be performed without accompanying air conditioning mode (eg, HEATING or COOLING).
The mode symbol of the remote control will go off and the fan speed can not be set AUTO.

10°C OPERATION

Heating operation with 10°C set temperature will be performed.



1 Press the MODE button and select HEAT mode.

2 Press the ON/OFF button to start HEAT operation.

3 Press the 10°C button.
• The remote control will display 10°C .

TO CANCEL

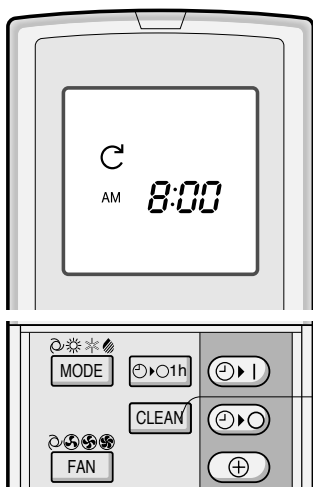
- Press the 10°C button again.
- 10°C operation will also be cancelled when the operation mode is changed, or when the unit is turned off.

NOTE:

- 10°C operation will not be available with heating operation automatically selected by AUTO mode.

SELF CLEAN OPERATION

SELF CLEAN operation will provide effect to reduce the growth mold fungus, and to dry inside of the air conditioner unit with Plasmacluster ions. This operation is accompanied by FAN or HEAT mode. Utilize the operation at seasonal change over terms. Mold fungus already grown can not be eliminated by this operation.



- 1 Press the SELF CLEAN button when the unit is not operating.
 - The remote control displays “”.
 - The blue PLASMACLUSTER lamp on the unit will light up.
 - The unit will stop operation after forty minutes.
 - The remaining operation time will be indicated on the TEMPERATURE INDICATOR of the indoor unit in minute decrements.

TO CANCEL

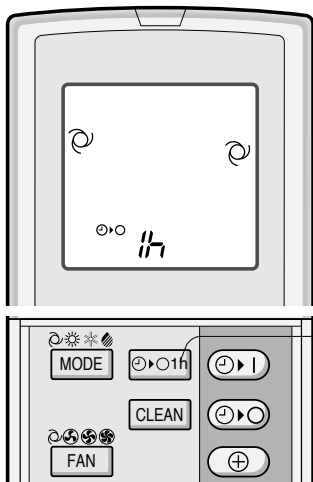
- 1 Press the SELF CLEAN button. Alternatively, turn the unit off by pressing the ON/OFF button.
 - The blue PLASMACLUSTER lamp on the unit will turn off.

NOTE:

- You cannot set the temperature, fan speed, air flow direction or timer setting during the SELF CLEAN operation.

ONE-HOUR OFF TIMER

When the ONE-HOUR OFF TIMER is set, the unit will automatically turn off after one hour.



- 1 Press the ONE-HOUR OFF TIMER button.
 - The remote control displays “ 1h”.
 - The orange TIMER lamp () on the unit will light up.
 - The unit will stop operating after one hour.

TO CANCEL

- Press the TIMER CANCEL (SET/C) button.
- The orange TIMER lamp () on the unit will turn off.
- Alternatively, turn the unit off by pressing the ON/OFF button.
- The red OPERATION lamp () and the orange TIMER lamp () on the unit will turn off.

NOTES:

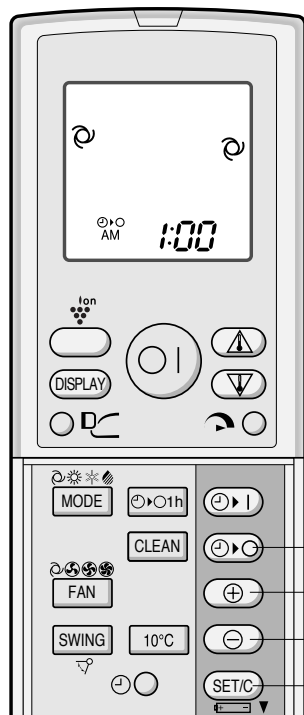
- The ONE-HOUR OFF TIMER operation has priority over TIMER ON and TIMER OFF operations.
- If the ONE-HOUR OFF TIMER is set while the unit is not operating, the unit will operate for an hour at the formerly set condition.
- If you wish to operate the unit for another hour before the ONE-HOUR OFF TIMER is activated, press the ONE-HOUR OFF TIMER button again during operation.
- If TIMER ON and/or TIMER OFF are set, TIMER CANCEL button cancels every setting.



TIMER OPERATION

NOTE:

Before setting the timer, make sure the clock is properly set with the current time.

TIMER OFF



- 1 Press the TIMER OFF () button.
- 2 The TIMER OFF indicator will blink; press the TIME ADVANCE or REVERSE buttons to set the desired time. (The time can be set in 10-minute increments.)
- 3 Point the remote control at the signal receiver window on the unit and press the TIMER SET (SET/C) button.
 - The orange TIMER lamp () on the unit will light.
 - The unit will generate a beep when it receives the signal.

TIPS ABOUT TIMER OFF OPERATION

When the TIMER OFF mode is set, the temperature setting is automatically adjusted to prevent the room from becoming excessively hot or too cold while you sleep. (Auto Sleep function)

COOL/DRY MODE:


- One hour after the time operation begins, the temperature setting rises 1°C higher than the original temperature setting.

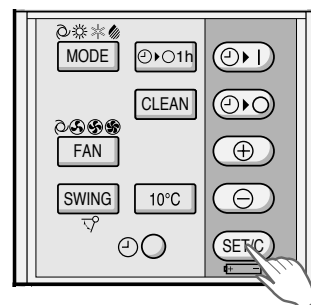
HEAT MODE:

- One hour after the timer operation begins, the temperature setting drops 3°C lower than the original thermostat setting.

TO CANCEL TIMER MODE

Press the TIMER CANCEL (SET/C) button.

- The orange TIMER lamp () on the unit will turn off.
- The current clock time will be displayed on the remote control.



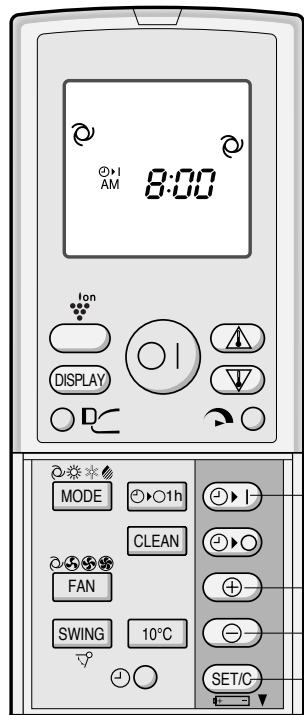
NOTE:

- If any TIMER ON, TIMER OFF and ONE-HOUR OFF TIMER are set, the TIMER CANCEL button cancels all settings.

TO CHANGE TIME SETTING

Cancel the TIMER setting first, then set it again.

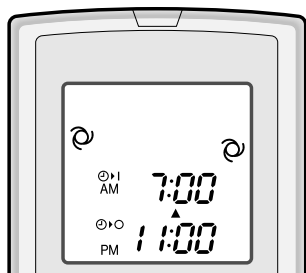
TIMER ON



- 1** Press the TIMER ON () button.
- 2** The TIMER ON indicator will blink; press the TIME ADVANCE or REVERSE buttons to set the desired time. (The time can be set in 10-minute increments.)
- 3** Point the remote control at the signal receiver window on the unit and press the TIMER SET (SET/C) button.
 - The orange TIMER lamp () on the unit will light.
 - The unit will generate a beep when it receives the signal.
- 4** Select the operation condition.
 - The unit will turn on prior to the set time to allow the room to reach the desired temperature by the programmed time. (Awaking function)

COMBINED USE OF ON AND OFF TIMERS

You can use the ON and OFF timers in combination.



Example:

To stop operation at 11:00 p.m. and resume operation (With the same mode and temperature settings) to bring the room temperature to the desired level by 7:00 a.m.

- 1** Set the TIMER OFF to 11:00 p.m. during operation.
- 2** Set the TIMER ON to 7:00 a.m.

The arrow (or) between the TIMER ON indicator and the TIMER OFF indicator shows which timer will activate first.

NOTES:


- You cannot programmed the ON-TIMER and OFF-TIMER to operate the unit at different temperatures or other settings.
- Either timer can be programmed to activate prior the other.

AUXILIARY MODE

Use this mode when the remote control is not available.


TO TURN ON

Lift the front panel of the indoor unit and press the AUX. button on the operation panel.

- The red OPERATION lamp () on the unit will light and the unit will start operating in the AUTO mode.
- The fan speed and temperature setting are set to AUTO.

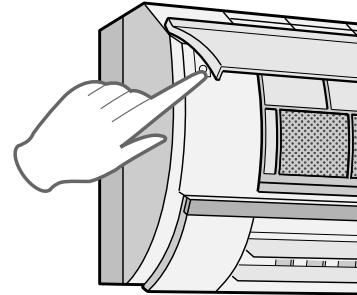
TO TURN OFF

Press the AUX. button on the operation panel again.

- The red OPERATION lamp () on the unit will turn off.

NOTE:

If the AUX. button is pressed during normal operation, the unit will turn off.

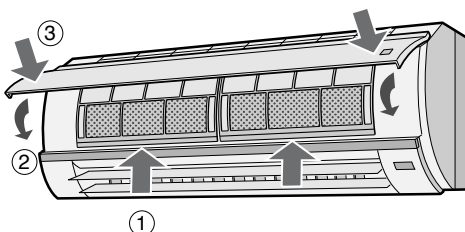
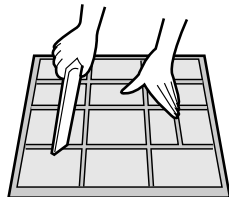
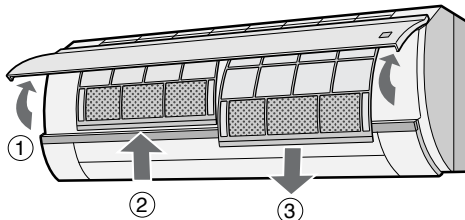


MAINTENANCE

Be sure to disconnect the power cord from the wall outlet or turn off the circuit breaker before performing any maintenance.

CLEANING THE FILTERS

The air filters should be cleaned every two weeks.



1 TURN OFF THE UNIT

2 REMOVE THE FILTERS

- ① Lift the open panel.
- ② Push the air filters up slightly to unlock them.
- ③ Pull the air filters down to remove them.

3 TAKE OFF THE DEODORANT DUST COLLECTION FILTERS FROM THE AIR FILTERS

4 CLEAN THE FILTERS

Use a vacuum cleaner to remove dust. If the filters are dirty, wash them with warm water and a mild detergent. Dry filters in the shade before reinstalling.

5 REINSTALL THE DEODORANT DUST COLLECTION FILTERS

6 REINSTALL THE FILTERS

- ① Reinstall the filters in the original positions.
- ② Close the front panel.
- ③ Push the arrow-marked of the panel firmly to lock it in place.

CLEANING THE UNIT AND THE REMOTE CONTROL

- Wipe them with a soft cloth.
- Do not directly splash or pour water on them. We can cause electrical shock or equipment damage.
- Do not use hot water, thinner, abrasive powders or strong solvents.

MAINTENANCE AFTER AIR CONDITIONER SEASON

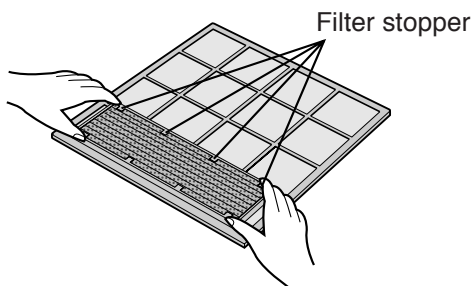
- 1** Operate the unit in the SELF CLEAN OPERATION to allow the mechanism to thoroughly dry.
- 2** Stop the operation and unplug the unit. Turn off the circuit breaker, if you have one exclusively for the air conditioner.
- 3** Clean the filters, then reinstall them.

MAINTENANCE BEFORE AIR CONDITIONER SEASON

- 1** Make sure that the air filters are not dirty.
- 2** Make sure that nothing obstructs the air inlet or outlet.
- 3** Check the outdoor mounting rack periodically for wear and to make sure it is firmly in place.

CHANGING THE DEODORANT DUST COLLECTION FILTER

The filter should be changed every 3 ~ 6 months



- 1** REMOVE THE AIR FILTER
- 2** CHANGE THE DEODORANT DUST COLLECTION FILTER
 - 1** Take off the old deodorant dust collection filter from the air filter.
 - 2** Set the new deodorant dust collection filter, under the filter stoppers located on the air filter.
- 3** REINSTALL THE AIR FILTER

NOTE:

- The dirty deodorant dust collection filter is not washable for reuse. The new filter is available at your nearest dealer.

Replacement filter: Type AZ-F920FN

Disposal of Filters

Please dispose of replaced filters according to the local disposal laws and regulations.

DEODORANT DUST COLLECTION Filter materials:

- Filter: Polypropylene
- Frame: Polyester

ADDITIONAL NOTES ON OPERATION

OPERATING TEMPERATURE RANGE

		INDOOR TEMP.	OUTDOOR TEMP.
COOLING	upper limit	32°C	43°C
	lower limit	21°C	-10°C
HEATING	upper limit	27°C	24°C
	lower limit	-	-20°C

- The built-in protective device may prevent the unit from operating when used out of this range.
- Condensation may form on the air outlet if the unit operates continuously in the COOL or DRY mode when humidity is over 80 percent.

WHEN POWER FAILURE OCCURS

This air conditioner has a memory function to store settings when a power failure occurs. After power recovery, the unit will automatically re-start in the same settings which were active before the power failure, except for timer settings. If the timers were set before a power failure, they will need to be re-set after power recovery.

PREHEATING FUNCTION

In the HEAT operation, the indoor fan may not start for two to five minutes after the unit is turned on to prevent cold air from blowing out of the unit.

DE-ICING FUNCTION

- When ice forms on the heat exchanger in the outdoor unit during the HEAT operation, an automatic de-icer provides heat for about 5 to 10 minutes to remove the ice. During de-icing, the inside and outside fans stop operating.
- After de-icing is completed, the unit automatically resumes operation in the HEAT mode.

HEATING EFFICIENCY

- The unit employs a heat pump that draws heat from the outside air and releases it into the room. The outside air temperature therefore greatly affects the heating efficiency.
- If the heating efficiency is reduced due to low outside temperatures, use an additional heater.
- It takes time to warm up and heat the entire room because of the forced air circulation system.

TIPS ON SAVING ENERGY

Below are some simple ways to save energy when you use your air conditioner.

SET THE CORRECT TEMPERATURE

- Setting the thermostat 1°C higher than the desired temperature in the COOL mode and 2°C lower in the HEAT mode will save approximately 10 percent in power consumption.
- Setting the temperature lower than necessary during cooling operation will result in increased power consumption.

BLOCK DIRECT SUNLIGHT AND PREVENT DRAFTS

- Blocking direct sunlight during cooling operation will reduce power consumption.
- Close the windows and doors during cooling and heating operations.

SET PROPER AIR FLOW DIRECTION TO OBTAIN THE BEST AIR CIRCULATION

KEEP FILTER CLEAN TO ENSURE THE MOST EFFICIENT OPERATION MAKE MOST OF THE TIMER OFF FUNCTION

DISCONNECT THE POWER CORD WHEN THE UNIT IS NOT USED FOR AN EXTENDED PERIOD OF TIME

- The indoor unit still consumes a small amount of power when it is not operating.

BEFORE CALLING FOR SERVICE

The following conditions do not denote equipment malfunctions

UNIT DOES NOT OPERATE The unit will not operate if it is turned on immediately after it is turned off. The unit will not operate immediately after the mode is changed. This is to protect the internal mechanisms. Wait 3 minutes before operating the unit.	SWISHING NOISE The soft, swishing noise is the sound of the refrigerant flowing inside the unit.
UNIT DOES NOT SEND OUT WARM AIR The unit is preheating or de-icing.	WATER VAPOUR <ul style="list-style-type: none"> In the COOL and DRY operation, water vapour can sometimes be seen at the air outlet due to the difference between the room air temperature and the air discharged by the unit. In the HEAT operation, water vapour may flow out of the outdoor unit during de-icing.
ODORS Carpet and furniture odors that entered into the unit and the air conditioner's inner component odors at the early stage of installation may be sent out from the unit.	THE OUTDOOR UNIT DOES NOT STOP After stopping the operation, the outdoor unit will rotate its fan for about a minute to cool down the unit.
CRACKING NOISE The unit may produce a cracking noise. This sound is generated by the friction of the front panel and other components expanding or connecting due to a temperature change.	ODOR EMITTED FROM THE PLASMACLUSTER AIR OUTLET This is the smell of ozone generated from the Plasmacluster Ion generator. The ozone concentration is very small, posing no adverse effect on your health. The ozone discharged into the air rapidly decomposes, and its density in the room will not increase.
A LOW BUZZING NOISE EMITTED This is a sound emitted when the unit is generating Plasmacluster ions.	

If the unit appears to be malfunctioning, check the following points before calling for service.

IF THE UNIT FAILS TO OPERATE
Check to see if the circuit breaker has tripped or the fuse has blown.

IF THE UNIT FAILS TO COOL (OR HEAT) THE ROOM EFFECTIVELY		
Check the filters. If dirty, clean them.	Check the outdoor unit to make sure nothing is blocking the air inlet or outlet.	Check the thermostat is proper setting.
Make sure windows and doors are closed tightly.	A large number of people in the room can prevent the unit from achieving the desired temperature.	Check whether any heat-generating appliances are operating in the room.

IF THE UNIT FAILS TO RECEIVE THE REMOTE CONTROL SIGNAL		
Check whether the remote control batteries have become old and weak.	Try to send the signal again with the remote control pointed properly towards the unit's signal receiver window.	Check whether the remote control batteries are installed with the polarities properly aligned.

Please call for service when TEMPERATURE INDICATOR on the indicator panel blink.







IVT Industrier AB
Box 1012
SE-573 28 Tranås
SWEDEN

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