



INSTRUCTIONS

CE

OPERATING INSTRUCTIONS

For customers

- To use this unit correctly and safely, be sure to read this operating instructions before use.

Bedienungsanleitung

Für Kunden

- Um diese Einheit richtig und sicher zu verwenden, unbedingt diese Bedienungsanleitung vor der Inbetriebnahme durchlesen.

NOTICE D'UTILISATION

A l'attention des clients

- Pour avoir la certitude d'utiliser cet appareil correctement et en toute sécurité, veuillez lire attentivement cette notice d'instructions avant de mettre l'appareil en fonction.

GEbruIKSAANWIJZING

Voor de klant

- Om dit apparaat op de juiste manier en veilig te gebruiken, dient u eerst deze gebruiksaanwijzing aandachtig door te lezen.

MANUAL DE INSTRUCCIONES

Para los clientes

- Para emplear correctamente este aparato y por razones de seguridad debe leer este manual de instrucciones de manejo antes de su utilización.

LIBRETTO D'ISTRUZIONI

Per gli utenti

- Per utilizzare correttamente quest'unità, leggere questo libretto d'istruzioni attentamente e per intero.

ΟΔΗΓΙΕΣ ΛΕΙΤΟΥΡΓΙΑΣ

Για τον πελάτη

- Για να χρησιμοποιήσετε αυτή την μονάδα σωστά και με ασφάλεια, βεβαιωθείτε ότι έχετε διαβάσει αυτό το εγχειρίδιο οδηγιών πριν από την χρήση.

INSTRUÇÕES DE OPERAÇÃO

Para os clientes

- Para utilizar esta unidade correctamente, certifique-se de que lê estas instruções de operação antes da utilização.

BRUGSANVISNING

Til kunden

- Læs denne brugsanvisning før brugen så korrekt og forsvarlig anvendelse af klimaanlægget sikres.

BRUKSANVISNING

För kunder

- För att använda enheten på rätt och säkert sätt ska denna bruksanvisning läsas innan enheten tas i bruk.

İŞLETME TALİMATLARI

Satın alıcılar için

- Bu birimi doğru ve güvenli olarak çalıştırmak için, kullanmadan önce bu işletme talimatlarını mutlaka okuyun.

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ

Для пользователей

- Для обеспечения правильного и безопасного использования прибора следует до начала его эксплуатации внимательно прочитать данное руководство.

English

Deutsch

Français

Nederlands

Español

Italiano

Ελληνικά

Português

Dansk

Svenska

Türkçe

Русский



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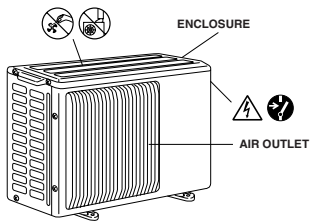
cause an electric shock are used in this product, be sure to read
important for safety, be sure to observe them.

serious hazard, such as death, serious injury, etc. with a high prob-
serious hazard depending on the conditions.

written in the parentheses.

, etc.
oor unit and do not put anything on them.
eful.
r supply plug from the power outlet.

with the installation manual in a handy place for easy reference.



• This air conditioner is NOT intended for use by children or infirm persons without supervisions.

⚠ WARNING	
⊘	<p>Do not use intermediate connection of the power supply cord or the extension cord and do not connect many devices to one AC outlet.</p> <ul style="list-style-type: none"> A fire or an electric shock may result from poor contact, poor insulation, exceeding the permissible current, etc.
	<p>Do not scratch or process the power supply cord, etc.</p> <ul style="list-style-type: none"> Do not put heavy object on the power supply cord and do not scratch or process the cord. The cord may be damaged and this may cause a fire or an electric shock.
	<p>Do not turn the breaker off/on or disconnect/connect the power supply plug during operation.</p> <ul style="list-style-type: none"> This may cause a fire due to spark, etc. Be sure to turn off the breaker or disconnect the power supply plug absolutely after switching the indoor unit off with the remote controller.
	<p>Do not expose your skin directly to cool air for a long time.</p> <ul style="list-style-type: none"> This could damage your health.
	<p>The customer should not install this unit.</p> <ul style="list-style-type: none"> If this is done incorrectly, it may cause a fire, an electric shock, or injury from the unit falling, water leaking, etc. Consult your dealer.
⊘ ⊘	<p>Do not insert your finger or a stick, etc. into the air inlet/outlet.</p> <ul style="list-style-type: none"> Since the fan rotates at high speed, this may cause an injury. Young children should be supervised to ensure that they do not play with the air conditioner.
⚡ ⊘	<p>When an abnormality (burning smell, etc.) occurs, stop the air conditioner and disconnect the power supply plug or turn off the breaker.</p> <ul style="list-style-type: none"> If the unit continues to be operated in an abnormal condition, it may cause a fire, trouble, etc. In this case, consult your dealer.
	<p>Repairs or relocation should not be done by the customer.</p> <ul style="list-style-type: none"> If this is done incorrectly, it may cause a fire, an electric shock, or injury from the unit falling, water leaking, etc. Consult your dealer. If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.

⚠ CAUTION	
⊘	<p>When the air filter is to be removed, do not touch the metal parts of the indoor unit.</p> <ul style="list-style-type: none"> This may cause an injury.
	<p>Do not use an insecticide or flammable spray.</p> <ul style="list-style-type: none"> This may cause a fire or deformation of the cabinet.
	<p>Do not put a pet or houseplant where it will be exposed to direct airflow.</p> <ul style="list-style-type: none"> This could injure the pet or plant.
	<p>Do not leave the unit on an installation stand which is damaged.</p> <ul style="list-style-type: none"> The unit may fall and this may cause an injury.
	<p>Do not step onto an unstable bench when maintaining the unit, etc.</p> <ul style="list-style-type: none"> This may cause an injury, etc. if you fall down.
	<p>Do not pull the power supply cord.</p> <ul style="list-style-type: none"> The core wire of the power supply cord may be disconnected and this may cause a fire.
	<p>Do not charge or disassemble the batteries and do not throw them into a fire.</p> <ul style="list-style-type: none"> This may result in leakage, fire or an explosion.
	<p>Do not operate the unit for a long time in high humidity, e.g. leaving a door or window open.</p> <ul style="list-style-type: none"> In the cooling mode, if the unit is operated in a room with high humidity (80% RH or more) for a long time, water condensed in the air conditioner may drop and wet or damage furniture, etc.
	<p>Do not use the unit for special purposes.</p> <ul style="list-style-type: none"> Do not use this air conditioner to preserve precision devices, food, animals, plants and art objects. This may cause deterioration of quality, etc.
	<p>Do not put a stove, etc. where they are exposed to direct airflow.</p> <ul style="list-style-type: none"> This may cause imperfect combustion.



PREPARATION BEFORE OPERATION

Auto restart function

- These models are equipped with an auto restart function. If you do not want to use this function, please consult the service representative because the setting of the unit needs to be changed.

Auto restart function is ...

When the indoor unit is controlled with the remote controller, the operation mode, the set temperature and the fan speed are stored in the memory. If a power failure occurs or the main power is turned off during operation, "Auto restart function" sets automatically to start operating in the same mode as the one set with the remote controller just before the shutoff of the main power. (Refer to page 6 for details.)

Indoor unit

- Insert the power supply plug into the power outlet and/or turn the breaker on.

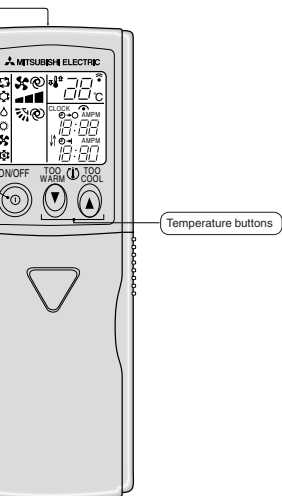
WARNING:

Remove dirt from the power supply plug and insert the plug securely. If dirt adheres to the plug or insertion is incomplete, it may cause a fire or an electric shock.

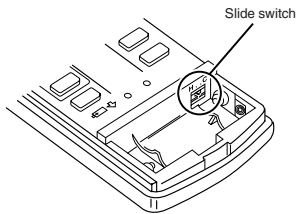
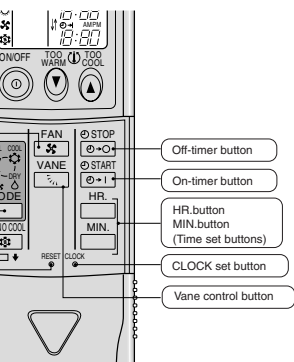
Remote controller

How to set the type

- This remote controller setting needs to be switched according to the type of air conditioner (COOL & HEAT or COOL ONLY). If the setting is incorrect, the air conditioner does not operate normally. Therefore, check if the setting corresponds to the type of your air conditioner. If it does not, correct the setting as shown below.



(Diagram shows an overall view.)



Type	COOL & HEAT	COOL ONLY
Position of the slide switch		




E OPERATION

Handling of the remote controller

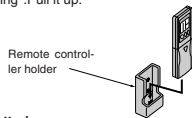
- The range that the signal can reach is about 6 m when the remote controller is pointed at the front of the indoor unit.
- When a button is pressed, one or two beeps will be heard from the indoor unit. If no sound is heard, operate again.
- Use the remote controller carefully. If it is dropped, thrown or it gets wet, the remote controller may not operate.

When installing on a wall, etc.

- Install the remote controller holder in a position where the signal reception sound (beep) can be heard from the indoor unit when the  button is pressed.

How to install/remove the remote controller

Installing :Insert the remote controller downward.
 Removing :Pull it up.



Dry-cell batteries

Reference for replacing batteries

Replace the batteries with new AAA alkaline batteries in the following cases:

- When the indoor unit does not respond to the remote control signal.
- When the display on the remote controller becomes dim.
- When a button of the remote controller is pressed, all displays appear on the screen, and then disappear immediately.

Do not use manganese batteries. The remote controller could malfunction.

- The service life of an alkaline battery is about 1 year. However, a battery whose time limit is approaching may be exhausted soon. The recommended usable time limit is indicated (month/year) on the bottom of the battery.
- To prevent liquid leakage, take out all batteries when the remote controller is not going to be used for a long time.

CAUTION:

If liquid from the batteries gets onto your skin or clothes, wash it well with clean water.

If liquid from the batteries gets into your eyes, wash them well with clean water and consult a doctor at once.

- Do not use rechargeable batteries.
- Replace the 2 batteries with new ones of the same type.
- Dispose of exhausted batteries in the correct manner.

When the remote controller cannot be used (emergency operation)

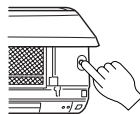
When the batteries of the remote controller run out or the remote controller malfunctions, the emergency operation can be done using the EMERGENCY OPERATION switch.

COOL & HEAT type

1 Press the EMERGENCY OPERATION switch.

- Each time the EMERGENCY OPERATION switch is pressed, the unit will operate in order of EMERGENCY COOL MODE, EMERGENCY HEAT MODE and STOP MODE.

However, when the EMERGENCY OPERATION switch is once pressed, the unit will operate in test run for 30 minutes and then the operation mode shifts to EMERGENCY MODE.

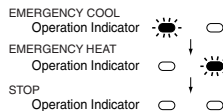


- Details of EMERGENCY MODE are as shown below. However, the temperature control does not work for 30 minutes in test run and the unit is set to continuous operation. The fan speed is set to High in test run and shifts to Medium after 30 minutes.

Operation mode	COOL	HEAT
Set temperature	24°C	24°C
Fan speed	Medium	Medium
Horizontal vane	Auto	Auto

- The operation mode is indicated by the Operation Indicator lamp on the indoor unit as following figure.

Operation Indicator lamp

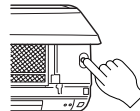


- To stop the emergency operation, press the EMERGENCY OPERATION switch once (in case of EMERGENCY HEAT MODE) or twice (in case of EMERGENCY COOL MODE).

COOL ONLY type

1 Press the EMERGENCY OPERATION switch.

- When the EMERGENCY OPERATION switch is pressed, the unit will operate in test run for 30 minutes at first and then the operation mode shifts to EMERGENCY COOL MODE.

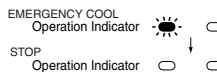


- Details of EMERGENCY COOL MODE are as shown below. However, the temperature control does not work for 30 minutes in test run and the unit is set to continuous operation. The fan speed is set to High in test run and shifts to Medium after 30 minutes.

Operation mode	COOL
Set temperature	24°C
Fan speed	Medium
Horizontal vane	Auto

- The operation mode is indicated by the Operation Indicator lamp on the indoor unit as following figure.

Operation Indicator lamp



- To stop the EMERGENCY COOL MODE, press the EMERGENCY OPERATION switch again.

Each time the switch is pressed, the operation mode alternates between the EMERGENCY COOL MODE and STOP MODE.

COOL, DRY, HEAT/FAN)

At the COOL, DRY or HEAT/FAN mode:

Press the **ON/OFF** button.

Press the operation mode by pressing the **MODE** button.

Each time this button is pressed, the operation mode is changed in sequence: HEAT/FAN → COOL → DRY → HEAT/FAN.

Operation mode
Type of the air conditioner.

Type	Operation mode
COOL & HEAT	HEAT
COOL ONLY	FAN

Operation:

Press the **ON/OFF** button.

Each time the operation mode is set once, the operation starts in the same mode as set previously from the next time by simply pressing the **ON/OFF** button.

Temperature:

One press lowers the temperature by about 1°C.

One press raises the temperature by about 1°C.

When the air conditioner is overloaded, it may be automatically stopped to protect the air conditioner. This may occur on the outdoor unit, but this is not a problem.

Some functions cannot be done in this operation mode.

Details are explained on page 6.

The indoor temperature may not reach the set temperature since the unit

Air conditioner (Outdoor unit: MXZ series)

MXZ series can connect two or more indoor units with one outdoor unit and can operate simultaneously.

When one outdoor unit simultaneously, one for the cooling and the other for the heating operates earlier is selected. The other indoor units that will start the operation state. (Refer to the table of Operation Indicator lamp on page 6.)

When the outdoor unit is being done, it takes a few minutes (max. 10 minutes) before the indoor unit starts to operate. The sound of refrigerant flowing may be heard continuously from the indoor unit that does not operate.

"CAUTION"

AIR FLOW VELOCITY AND DIRECTION ADJUSTMENT

AIR FLOW velocity and direction can be selected as required.

To change the AIR FLOW velocity, press the **FAN** button.

Each time the button is pressed, the fan speed is changed in sequence: (Low) → (Med.) → (High) → (AUTO)

- Use the (High) notch to cool/heat the room more.
- If the operating sound of the air conditioner disturbs your sleep, use the (Low) notch.

To change the AIR FLOW blowing direction vertically, press the **VANE** button.

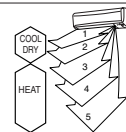
Each time the button is pressed, the angle of the horizontal vane is changed in sequence: (1) → (2) → (3) → (4) → (5) → (SWING) → (AUTO)

SWING OPERATION

Use the swing operation for the air flow to reach all corners of the room.

Recommended horizontal vane range

Use the (AUTO) position usually. Use position (1) or (2) in the COOL or DRY mode and use positions (3) to (5) in the HEAT mode when adjusting to your requirements.



NOTE:

- In the cooling operation, when the air conditioner is operated with setting the horizontal vane to (4) or (5) for 1 hour, the AIR FLOW direction is automatically set to horizontal to prevent condensed water from dropping.
- Adjust the vertical AIR FLOW direction using the remote controller. If the horizontal vane is moved manually, it may cause trouble.
- In the heating operation, if the air flow temperature is too low or when defrosting is being done, the horizontal vane position is set to (1).

Auto air flow direction control operation

When the AUTO mode is selected with the **VANE** button, the position of the horizontal vane is automatically set to correspond to the operation mode for effective operation.

(1) HEAT

When the air flow temperature is too low, the air is blown out horizontally.

When the air flow temperature rises, the air is blown out downwards.

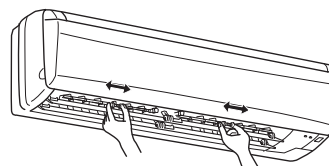
(2) COOL, DRY

The air is blown out horizontally.

(3) FAN

The air is blown out downwards.

To change the horizontal direction of the air flow, move the vertical vane manually.



Adjust the vane before operation starts. Since the horizontal vane moves automatically, your fingers may be caught.



UTION

comfortable in COOL mode even with energy saved.

the following operations while the unit is operating in MANUAL COOL mode.

Press the button.

When the (ECONO COOL) operation is selected in COOL mode, the air conditioner performs swing operation in various cycle according to the temperature. The SET TEMPERATURE is automatically set 2°C higher than in COOL mode.

Use the ECONO COOL operation:

Press the button again.

When the button is pressed or the operation mode is changed during ECONO COOL operation, ECONO COOL operation is released.

Press the button, the or button and ON/OFF timer (explained below) available.

cooler than constant air flow. So, even though the set temperature is the same, cooling operation with keeping comfort. As a result, energy can be saved.

ON/OFF TIMER)

to bed, when you get home, when you get up, etc.

How to set the OFF timer

1 Press the button during operation.

Each time the button is pressed, the OFF timer mode alternates between ON and OFF.

2 Set the time of the timer using the and buttons.

Each time the button is pressed, the set time increases by 1 hour; each time the button is pressed, the set time increases by 10 minutes.

To release the OFF timer:

Press the button.

combination. The timer of the set time that is reached first will operate first.

operation cannot be used.

occurs while AUTO START/STOP timer is active, the timer setting is not affected. When the auto restart function, the air conditioner starts operating with timer

WHEN THE AIR CONDITIONER IS NOT GOING TO BE USED FOR A LONG TIME

When it is not going to be used for a long time:

1 Perform the FAN operation for 3 or 4 hours to dry the inside of the air conditioner.

COOL & HEAT type:

- To perform FAN operation, set the remote controller to the highest temperature in the MANUAL COOL mode. (Refer to page 7.)

COOL ONLY type:

- Select the FAN mode. (Refer to page 7.)

2 Turn off the breaker and/or disconnect the power supply plug.



CAUTION:
Turn off the breaker or disconnect the power supply plug when the air conditioner is not going to be used for a long time.
Dirt may collect and this may cause a fire.

3 Remove the batteries from the remote controller.

CAUTION:
To prevent liquid leakage, take out all batteries when the remote controller is not going to be used for a long time.

MAINTENANCE

Before starting maintenance

1 Turn off the breaker and/or disconnect the power supply plug.



CAUTION:
When the unit is to be cleaned, switch it off and disconnect the power supply plug or turn off the breaker. Since the fan rotates at high speed during operation, it may cause an injury.

When the air conditioner is to be used again:

1 Clean the air filter and install it in the indoor unit.

(Refer to page 9 for cleaning instructions.)

2 Check that the air inlet and outlet of the indoor/outdoor units are not blocked with any obstacles.

3 Check that the earth is connected correctly.

CAUTION:
Earth the unit.
Do not connect the earth to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earthing is incorrect, it may cause an electric shock.

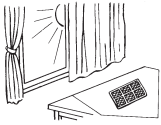


CATECHIN AIR FILTER

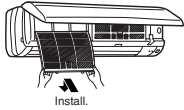
Change once every 2 weeks)

- After washing with water/lukewarm water, dry the catechin air filter well in the shade.

- Do not expose the catechin air filter to direct sunlight or heat from a fire when drying it.



- Install the catechin air filter.



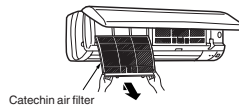
Catechin, that is contained in tea. The catechin air filter deodorizes ammonia, and acetaldehyde. Moreover, it restrains the activity of

REPLACEMENT OF THE AIR CLEANING FILTER

When the capacity is lowered because of dirt, etc., it is necessary to replace the air cleaning filter.

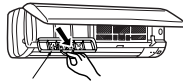
Air cleaning filter replacement (about once every 4 months)

- Remove the catechin air filter.



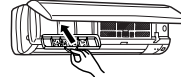
Catechin air filter

- Remove the air cleaning filter (White bellows type).



Air cleaning filter

- Install a new air cleaning filter.



- Install the catechin air filter and securely close the front panel.



Air cleaning filter

- If the air cleaning filter is clogged, it may lower the unit's capacity or cause condensation at the air outlet.
- The air cleaning filter is disposable. The standard usable term is about 4 months. However, if the colour of the filter turns to dark brown, replace the filter at once.

Optional parts Optional parts are available from your local dealer.

Name of parts	AIR CLEANING FILTER
Parts number	MAC-1300FT



SERVICE REPRESENTATIVE CALLING AGAIN

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... (Page 8)
...setting correct? (Page 7)
... (Page 9)
...cles blocking the air inlet or
...or outdoor unit?
...open?
... (Page 9)
...hausted? (Page 5)
... of the batteries correct?
...the remote controller of other
...being pressed?
...ner start operating again?
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...ng again. (Refer to Descrip-
...TART FUNCTION" on page

...air conditioner does not
...ditioner and consult your

...er and consult your dealer.

...n a room where an electronic
...orescent lamp, etc.) is used.
...with radio or TV reception in
... may be required for the af-

...connect the power supply plug
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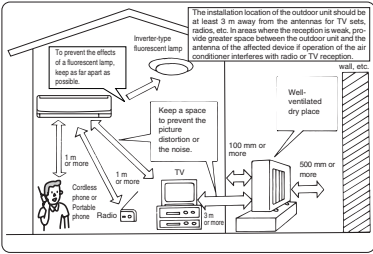
WHEN YOU THINK THAT TROUBLE HAS OCCURRED

Question	Answer (not a malfunction)
The air conditioner cannot be operated for about 3 minutes when restarted.	<ul style="list-style-type: none"> This protects the air conditioner according to instructions from the microprocessor. Please wait.
Cracking sound is heard.	<ul style="list-style-type: none"> This sound is generated by the expansion/contraction of the front panel, etc. due to change in temperature.
The air from the indoor unit smells strange.	<ul style="list-style-type: none"> The air conditioner may suck in an odor adhering to the wall, carpet, furniture, cloth, etc. and blow it out with the air.
The fan stops during the DRY operation.	<ul style="list-style-type: none"> In DRY operation, the unit operates using the same refrigerant circuit as in COOL operation. DRY operation time has to be reduced in order to lower humidity without much room temperature decreasing. So the compressor sometimes stops, and at the same time the indoor fan stops. This prevents water condensed on the heat exchanger from evaporating again.
The sound of water flowing is heard.	<ul style="list-style-type: none"> This is the sound of refrigerant flowing inside the air conditioner. This is the sound of condensed water flowing in the heat exchanger. This is the sound of the heat exchanger defrosting.
The sound as burbling is heard.	<ul style="list-style-type: none"> This sound is heard when the outside air is absorbed from the drain hose in turning on the range hood or the ventilation fan and that makes water flowing in the drain hose spout out. This sound is also heard when the outside air blows into the drain hose in case the outside wind is strong.
The room cannot be cooled sufficiently.	<ul style="list-style-type: none"> When a ventilation fan or a gas cooker is used in a room, the cooling load increases, resulting in an insufficient cooling effect. When the outside air temperature is high, the cooling effect may not be sufficient.
Mist is discharged from the air outlet of the indoor unit.	<ul style="list-style-type: none"> The cool air from the air conditioner rapidly cools moisture in the air inside the room, and it turns into mist.

Question	Answer (not a malfunction)
The air flow direction changes during operation. The direction of the horizontal vane cannot be adjusted with the remote controller.	<ul style="list-style-type: none"> When the air conditioner is operated in COOL or DRY mode, if the operation continues with air blowing down for 1 hour, the direction of the air flow is automatically set to horizontal to prevent condensed water from dropping. In the heating operation, if the air flow temperature is too low or when defrosting is being done, the horizontal vane position is automatically set to horizontal.
Water leaks from the outdoor unit.	<ul style="list-style-type: none"> During COOL and DRY operations, pipe or pipe connecting sections are cooled and this causes water to condense. In the heating operation, the defrosting operation makes water frozen on the outdoor unit melt and drip down. In the heating operation, water condensed on the heat exchanger drips down.
White smoke is discharged from the outdoor unit.	<ul style="list-style-type: none"> In the heating operation, vapor generated by the defrosting operation looks like white smoke.
Air does not blow out soon in the heating operation.	<ul style="list-style-type: none"> Please wait as the air conditioner is preparing to blow out warm air.
The operation is stopped for about 10 minutes in the heating operation.	<ul style="list-style-type: none"> Defrosting of the outdoor unit is being done (Defrosting operation). Since this is completed in 10 minutes, please wait. (When the external temperature is too low and humidity is too high, frost is formed.)
Hissing sound is sometimes heard.	<ul style="list-style-type: none"> This is the sound when the flow of refrigerant inside the air conditioner is switched.
The room cannot be heated sufficiently.	<ul style="list-style-type: none"> When the outside air temperature is low, the heating effect may not be sufficient.
In a multi-unit system, the indoor unit which is not operating becomes warm and a sound, similar to water flowing, is heard from the unit.	<ul style="list-style-type: none"> A small amount of refrigerant continues to flow into the indoor unit even though it is not operating.
The air conditioner starts the operation only with the main power turned on, though you do not operate the unit with the remote controller.	<ul style="list-style-type: none"> These models are equipped with an auto restart function. When the main power is turned off without stopping the air conditioner with the remote controller and is turned on again, the air conditioner will start operation automatically in the same mode as the one set with the remote controller just before the shutoff of the main power.



INSTALLATION AND INSPECTION



CAUTION:

- **Earth the unit.**
Do not connect the earth to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earthing is incorrect, it may cause an electric shock.
- **Install an earth leakage breaker depending on the place where the air conditioner is to be installed (humid places, etc.).**
If the earth leakage breaker is not installed, it may cause an electric shock.

Inspection and maintenance

- When the air conditioner is used for several seasons, the capacity may be lowered due to dirt inside the unit.
- Depending on the condition, an odor may be generated or dehumidified water may not drain out smoothly due to dirt, dust, etc.
- It is recommended that the unit be inspected and maintained (charged) by specialist in addition to normal maintenance. Consult your dealer.

Operating sound considerations

- Do not put an object around the air outlet of the outdoor unit. This may lower the capacity or increase the volume of the operating sound.
- If an abnormal sound is heard during operation, consult your dealer.

Relocation

- When the air conditioner is to be removed or re-installed because of rebuilding, moving, etc., special techniques and work are required.

WARNING :

Repairs or relocation should not be done by the customer.
If this is done incorrectly, it may cause a fire, an electric shock, or an injury from the unit falling, water leaking, etc. Consult your dealer.

Disposal

To dispose of this product, consult your dealer.

If you have any questions, consult your dealer.

	MSH-A09YV	MSC-A09YV	MUH-A09YV	MSH-A12YV	MSC-A12YV	MUH-A12YV	MS-A07YV	MSC-A09YV	MU-A09YV	MS-A12YV	MSC-A12YV
	Heating	Cooling	Heating	Cooling	Heating	Cooling	Cooling				
	- /N, 230V, 50Hz										
	2.5	2.55	3.05	3.5	3.9		2.3	2.55		3.5	
	0.69	0.795	0.84	1.09	1.08		0.715	0.795		1.14	
	9		10		10		9		10		
35	38		40		34		36				
0.62	1.00		1.00		0.60		0.60		0.75		
	IP20										
	IP24										
	1.64										
	4.15										
36/31/25	36/31/25	39/32/25	40/33/26	39/33/26	36/31/25			40/33/26			
47	49			45			49				

NOTE:

1. Rating condition

Cooling	Indoor:	27°C DB, 19°C WB
	Outdoor:	35°C DB
Heating	Indoor:	20°C DB
	Outdoor:	7°C DB, 6°C WB

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	32°C DB	43°C DB
		23°C WB	—
	Lower limit	21°C DB	21°C DB
		15°C WB	—
Heating	Upper limit	27°C DB	24°C DB
		—	18°C WB
	Lower limit	20°C DB	-10°C DB
		—	-11°C WB



...d for use in the residential,
...nment.

- Low Voltage Directive 73/23/ EEC
- Electromagnetic Compatibility Directive 89/336/ EEC



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