38MG / 40MA / 40MB Multi-zone Ductless Split System Sizes 18 to 48



PAGE

Owner's Manual

TABLE OF CONTENTS

A NOTE ABOUT SAFETY	2
MODEL NUMBER NOMENCLATURE	2
ENVIRONMENTAL NOTICE	4
SAFETY PRECAUTIONS	5
OPERATING INSTRUCTIONS	7
CARE AND MAINTENANCE	24
OPERATION TIPS	30
TROUBLESHOOTING TIPS	32

NOTE TO EQUIPMENT OWNER:

Please read this Owner's Information Manual carefully before installing and using this appliance and keep this manual for future reference.

For your convenience, please record the model and serial numbers of your new equipment in the spaces provided. This information, along with the installation data and dealer contact information, will be helpful should your system require maintenance or service.

UNIT INFORMATION	DEALERSHIP CONTACT INFORMATION
Model #	Company Name:
Serial #	Address:
INSTALLATION INFORMATION	Phone Number:
Date Installed	Technician Name:

A NOTE ABOUT SAFETY

Ą

Any time you see this symbol \triangle in manuals, instructions and on the unit, be aware of the potential for personal injury. There are three levels of precaution:

DANGER identifies the most serious hazards which will result in severe personal injury or death.

WARNING signifies hazards that could result in personal injury or death.

CAUTION is used to identify unsafe practices which could result in minor personal injury or product and property damage.

NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

WARNING

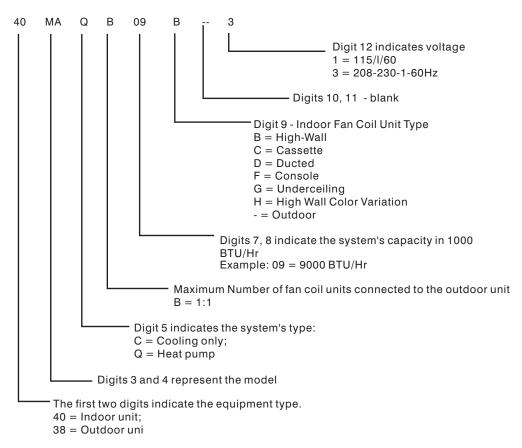
PERSONAL INJURY, DEATH AND / OR PROPERTY DAMAGE HAZARD

Failure to follow this warning could result in personal injury, death or property damage.

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or service agency must use factory-authorized kits or accessories when modifying this product.

Read and follow all instructions and warnings, including labels shipped with or attached to unit before operating your new air conditioner.

Model number Nomenclature



" Model Numbers

System Tons	System Btuh	Volt- Ph @ 60Hz	Outdoor Model Number
1.5	18,000	208/230-1	38MGQC183
2.25	27,000	208/230-1	38MGQD273
3	36,000	208/230-1	38MGQF363
4	48,000	208/230-1	38MGQF483

A CAUTION

- Contact an authorized service technician for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The air conditioner is not intended for use by young children or invalids without supervision.
 Young children should be supervised to ensure that they do not play with the air conditioner.
- If the power cord is to be replaced, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.

ENVIRONMENTAL NOTICE

When using this air conditioner in the European countries, the follow information must be followed:

DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

It is prohibited to dispose of this appliance in domestic household waste. For disposal, there are several possibilities:

- A) The municipality has established collection systems, where electronic waste can be disposed of
- B) When buying a new product, the retailer will take back the old product free of charge.
- C) The manufacturer will take back the old appliance for disposal.
- D) As old products contain valuable resources, they can be sold to scrap metal dealers.

Wild disposal of waste in forests and landscapes endangers your health when hazardous substances leak into the ground-water and find their way into the food chain.



SAFETY PRECAUTIONS

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage.

• The seriousness is classified by the following indications.

This symbol indicates the possibility of death or serious injury.
This symbol indicates the possibility of injury or damage to property.

• Meanings of symbols used in this manual are as shown below.

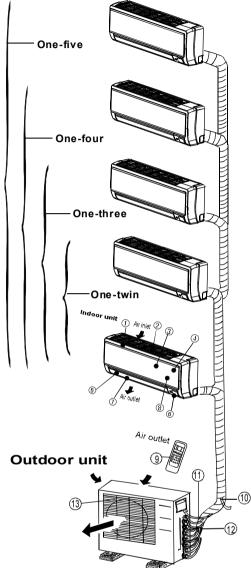
\bigcirc	Never do this.			
	Always do this.			
^① Connect with the poproperly.	wer			
 Otherwise, it may cause shock or fire due to exc generation. 				
O Do not modify powe length or share the with other appliance	outlet hands or in damp room occupants only.			
 It may cause electric sh fire due to heat generat 	ock or • It may cause electric shock. • This could damage your health.			
① Always ensure effect grounding.	tive O Do not allow water to run into electric parts. O Do not allow water to run into electric parts. O Always install circuit breaker and a dedicated power circuit.			
 No grounding may caus shock. 	e electric • It may cause machine failure or electric shock. • Failure to install may cause fire and electric shock.			
① Disconnect the pow strange sounds, sm smoke comes from	ell, or from air conditioner. during operation.			
 It may cause fire and el shock. 	ectric It contains contaminants and It may cause electric shock. could make you sick. 			
^① Use the correctly ra breaker or fuse.	ted Solution Do not use the power cord close to heating appliances. Solution of the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.			
 Otherwise risk of fire o electric shock. 	 It may cause fire and electric It may cause an explosion or fire shock. 			
① Ventilate room befo conditioner if there another appliance.	re operating air			
 It may cause explosion, 	fire and, burns. • Doing so may result in unit failure and electric shocl			

SAFETY PRECAUTIONS

Do not clean the air conditioner with water.	• Vantilata tha room wall whan
	① Ventilate the room well when
	used together with a stove, etc.
 Water may enter the unit and degrade the insulation. It may cause an electric shock. 	 An oxygen shortage may occur.
O Do not put a pet or house plant where it will be exposed to direct air flow.	O Do not use for special purposes.
 This could injure the pet or plant. 	 Do not use this air cond- itioner to preserve preci- sion devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.
𝛇 Do not place obstacles around air-inlets or inside of air-outlet.	① Tum off the main power switch when not using the unit for a long time.
 It may cause failure of teh appliance or accident. 	 It may cause failure of product or fire.
Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure.	Always insert the filters securely. Clean filter once every two weeks.
 If bracket is damaged, there is risk of damage due to falling of unit. 	 Operation without filters may cause failure.
Use caution when unpacking and installing. Sharp edges could cause injury.	If water enters the unit, turn the unit off and disconnect the power, contact a qualified service technician.
 Children should be supervised to ensure they do not play with the appliance. 	 There is danger of fire or electric shock.
This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.	If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
	 the insulation. It may cause an electric shock. Do not put a pet or house plant where it will be exposed to direct air flow. This could injure the pet or plant. This could injure the pet or plant. Do not place obstacles around air-inlets or inside of air-outlet. It may cause failure of teh appliance or accident. Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure. If bracket is damaged, there is risk of damage due to falling of unit. Use caution when unpacking and installing. Sharp edges could cause injury. Children should be supervised to ensure they do not play with the appliance. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible

Identification of parts

Indoor unit



Indoor unit

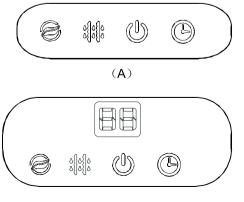
- 1. Panel frame
- 2. Rear air intake grille
- 3. Front panel
- 4. Air Purifying filter and Air filter(behind)
- 5. Horizontal louver
- 6. LCD display window
- 7. Vertical louver
- 8. Manual control button(behind)
- 9. Remote controller holder

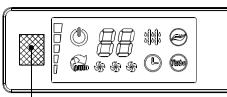
Outdoor unit

- 10. Drain hose, refrigerant connecting pipe
- 11. Connective cable
- 12. Stop valve
- 13. Fan hood

Display window

NOTE: The display window on the air conditioner you purchased may look like one of the following:

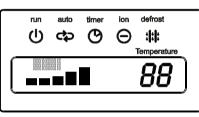




Signal receptor (2)



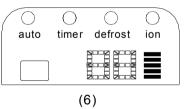
(3)



(4)











OPERATION display

Displays when the air conditioner is in operation.



AUTO operation display

Displayed during the Auto operation.



DEFROST operation display

(For Heating and Cooling model only): Displays when the air conditioner starts defrosting automatically or when the warm air control feature is activated in the heating operation.



TIMER display

Displays during the Timer operation.

CLEAN AIR display(optional)

Displays when the CLEAN AIR feature is activated.



lon

TURBO operation display

Displays when a user selectstheTURBO function on the cooling operation or on the heating operation.

DIGITAL DISPLAY

Displays the current setting temperature when the air conditioner is in operation.

🛞 🛞 🛞 FAN SPEED display

Displays the selected fan speed: LOW(乐), MED(乐乐) and HIGH(乐乐乐).

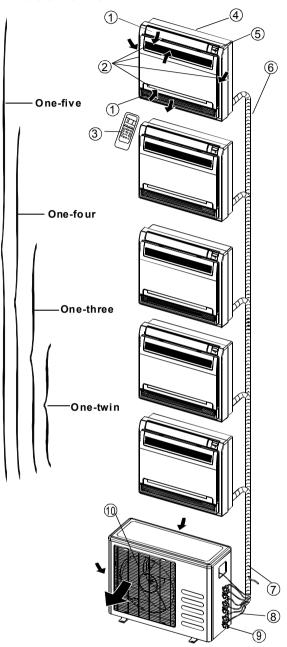


Frequency indication lamp

This display is separated into five zones. The zones illuminate based on the compressor current frequency. For example, higher frequency illuminates more zones.

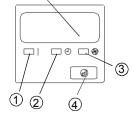
Identification of parts

Floor Console Indoor unit



Display panel

Infrared signal receiver



Indoor unit

- 1. Air flow louver (at air outlet)
- 2. Air inlet(with air filter installed)
- 3. Remote controller
- 4. Installation part
- 5. Display panel
- 6. Connecting pipe

Outdoor unit

- 7. Drain hose, refrigerant connecting pipe
- 8. Connective cable
- 9. Stop valve
- 10. Fan hood

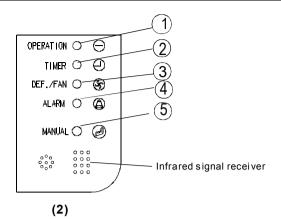
DISPLAY PANEL:

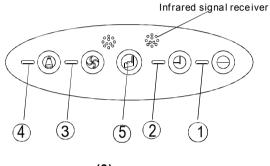
- ① **OPERATION indication lamp** This indicator illuminates when the unit is operational.
- ② TIMER indication lamp Lights up during the Timer operation.
- ③ DEFROST indication lamp(Cooling and Heating models only) or Fan only indication lamp

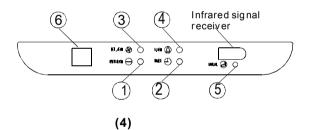
(Cooling only type): Lights up when the air conditioner starts defrosting automatically in the heating operation or if the fan only mode is selected.

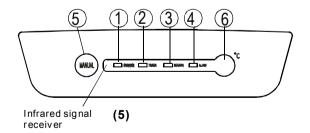
(4) Temporary button

This button is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. One press of the manual control button leads to the forced AUTO operation. If you press the button twice within five seconds, the unit will operate under the forced COOL operation. The forced COOL operation is used for testing purposes only, please do not choose it unless it is necessary.









$^{(5)}$ Temporary button

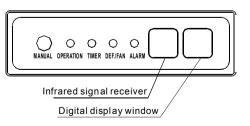
This button is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. One press of the manual control button will lead to the forced AUTO operation. If you press the button twice within five seconds, the unit will operate under the forced COOL operation. The forced COOL operation is used for testing purposes only, please do not choose it unless it is necessary.

(6) Temperature Display

Displays the current setting temperature while the unit is operating.

Identification of parts Duct / Ceiling type Indoor unit A One-five One-four One-three One-twin (10)

Display panel



OPERATING INSTRUCTIONS

Indoor unit

- 1. Air outlet
- 2. Air inlet
- 3. Air filter
- 4. Electric control cabinet
- 5. Wire controller
- 6. Drain pipe

Outdoor unit

- 7. Drain hose, refrigerant connecting pipe
- 8. Connective cable
- 9. Stop valve
- 10. Fan hood

DISPLAY PANEL:

① **OPERATION indication lamp** This indicator illuminates when the unit is operational.

② TIMER indication lamp

Lights up during the Timer operation.

③ DEF./FAN indication lamp

Lights up when the air conditioner starts defrosting automatically in the heating operation (applicable to cooling and heating models only) or the fan only mode is selected(applicable to cooling only models).

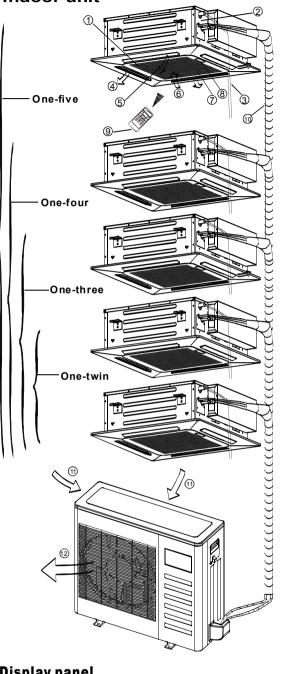
④ ALARM indication lamp

Flashes when a malfunction occurs.

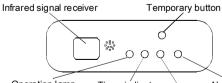
⁽⁵⁾ MANUAL button

This button is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. One press of the manual control button will lead to the forced AUTO operation. If you press the button twice within five seconds, the unit will operate under the forced COOL operation The forced COOL operation is used for testing purposes only, please do not choose it unless it is necessary.

Identification of parts Compact four-way cassette type Indoor unit



Display panel



Operation Tamp Timer indicator Alarm indicator PRE-DEF indicator(cooling and heating type) or fan only indicator(cooling only type)

Indoor unit

- 1. Air flow louver(at air outlet)
- 2. Drain pump(drain water from indoor unit)
- 3. Drain pipe
- 4. Air outlet
- 5. Air filter(inside air-in grill)
- 6. Air inlet
- 7. Air-in grill
- 8. Display panel
- 9. Remote controller
- 10. Refrigerant pipe

Outdoor unit

- 11. Air inlet
- 12. Air outlet

DISPLAY PANEL:

① OPERATION lamp

This indicator illuminates when the unit is operational.

② TIMER indication lamp

Lights up during the Timer operation.

③ PRE-DEF./FAN indication lamp

Lights up when the air conditioner starts defrosting automatically in the heating operation (applicable to cooling and heating models only) or if the fan only mode is selected(applicable to cooling only models).

④ ALARM indication lamp

Flashes when a malfunction occurs.

5 TEMPORARY button

This button is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. One press of the manual control button will lead to the forced AUTO operation. If you press the button twice within five seconds, the unit will operate under the forced COOL operation The forced COOL operation is used for testing purposes only, please do not choose it unless it is necessary. NOTE: This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

	<u></u>		
Mode Temperature	Cooling operation	Heating operation	Drying operation
Room temperature	62°F~90°F (17°C~32°C)	32°F~86°F(0°C~30°C)	62°F~90°F(17°C~32°C)
Outdoor temperature	32°F~122°F(0°C~50°C)	5°F~76°F (-15°C~24°C)	
	5°F~122°F(-15°C~50°C) For the models with low temperature cooling system)		

Operating temperature

NOTE:

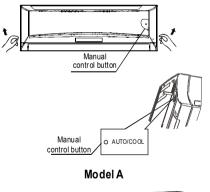
1. Optimum performance is achieved within these operating temperatures If the air conditioner is used outside of the above conditions, certain safety protection features might come into operation and cause the unit to function abnormally.

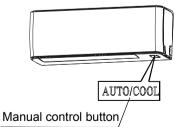
2. If the air conditioner operates in a room whose relative humidity is less than 80% the surface of the air conditioner may attract condensation. Please set the vertical air flow louver to its maximum angle (vertically to the floor), and set to the HIGH fan mode.

<u>Suggestion</u>: Because the unit uses an electric heater when the outside ambient temperature is below $32^{\circ}F(0^{\circ}C)$, we strongly recommend that you keep the machine plugged in to help the unit run smoothly.

Manual operation

Manual operation can be used temporarily in case you can not find the remote controller or test running purpose or maintenance necessary.





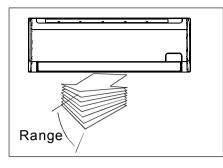
Model B

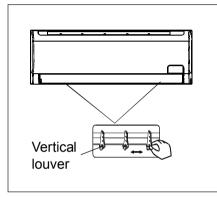
NOTE: The unit must be turned off before operating the manual control button. If the unit is operational, continue pressing the manual control button until the unit is off.

- Open and lift the front panel up to see the manual control button(see Model A)
 For some models, the manual control button is located at the bottom of the unit(see Model B).
- ② One press of the manual control button will lead to the forced AUTO operation. If you press the button twice within five seconds, the unit will operate under the forced COOL operation.
- ③ Close the panel firmly to its original position.

NOTE: For DUCT and CEILING type, CASSETTE type, CEILING and FLOOR type and FLOOR and STANDING type, please refer to the previous pages for information on the use of the Manual button.

Airflow direction control



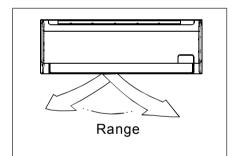


- Adjust the air flow direction properly otherwise it might cause discomfort or cause uneven room temperatures.
- Adjust the horizontal/vertical louver using the remote controller. For some models, the vertical louver can only be adjusted manually.

To set the horizontal/vertical air flow direction

- Perform this function while the unit is in operation.
- Use the remote controller to adjust the air flow direction. The vertical/horizontal louver adjusts 6 degrees in angle for each press.
- Please refer to the 'REMOTE CONTROLLER OPERATION MANUAL' for details.
- For some models, the vertical louver can only be adjusted manually. Move the deflector rod manually to adjust the air flow in the direction you prefer.

IMPORTANT: Do not put your fingers into the panel of blower and suction side. The high-speed fan may cause injury.



\triangle CAUTION

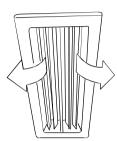
- Do not operate the air conditioner for long periods with the air flow direction set downward in the cooling or dehumidifying mode. Otherwise, condensation may accumulate on the surface of the horizontal louver causing moisture to drop on to the floor or on furnishings.
- Do not move the horizontal louver manually unless it is necessary. Always use the remote controller.
- When the air conditioner is started immediately after it was stopped, the horizontal louver might not move for approximately 10 seconds.
- Open angle of the horizontal louver should not be set too low as COOLING or HEATING performance may be impaired due to a highly restricted air flow area
- Do not operate unit with the horizontal louver in the closed position.
- When the air conditioner is connected to power (initial power), the horizontal louver may generate a sound for 10 seconds, this is a normal.

Duct-Ceiling Type

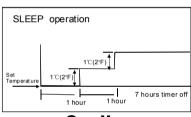
The following information details how to adjust the air flow direction when the air outlet parts (sold separately) is used with the indoor unit.

Cooling

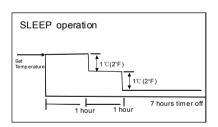
To effectively cool the whole room, please adjust the louver horizontally.



How the air conditioner works



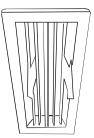
Cooling



Heating

Heating

To effectively heat the bottom of the room please set the louver downwards.



AUTO operation

- When you set the air conditioner to the AUTO mode, it will automatically select cooling, heating(cooling /heating models only), or fan only operation depending on what temperature you have selected and the room temperature.
- The air conditioner controls room temperature automatically round the temperature point set by you.
- If the AUTO mode is uncomfortable, you can select desired conditions manually.

SLEEP operation

- When you push SLEEP button on the remote controller during cooling, heating(cooling only type without), or AUTO operation, the air conditioner will automatically increase (cooling) or decrease (heating) 2°F(1°C) per hour.
- The set temperature should be stable within two hours. And the air conditioner will turn off in 7 hours.
- The fan speed will be automatically controlled.
- This feature can maintain the most comfortable temperature and reduce energy costs.

DRYING operation

- The fan speed will be automatically controlled under the dry operation.
- During the the dry operation, if the room temperature is lower than 50°F(10°C), the compressor stops operating and restarts until the room temperature is above 54°F(12°C).

Operation mode selection

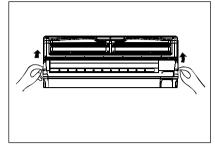
While simultaneously operating two indoor units or more, make sure the operation modes will not conflict with each other. The heat mode claims precedence over all other modes. If the unit intially started operates under the heat mode, the other units may only operate under heat mode. For example: If the unit intially started operates under cool(or fan) mode, the other units can operate under any mode except heat. If one of the units select heat mode, the other operating units will stop operation and display " -- " (For the units with the display window only) or the Auto and Operation indication light will flash rapidly, the Defrost indication light turns off, the Timer indication light remains on(for the units without a display window), or the Defrost and Alarm indication light(if applicable) illuminate, the Operation indication light flashes rapidly and the Timer indication light turns off (for the floor and standing type).

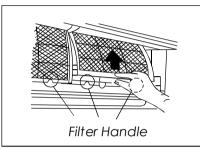
Optimal operation

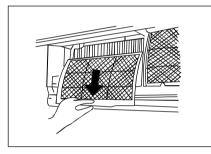
To achieve optimal performance, please note the following:

- Adjust the air flow direction correctly so that it is not directed toward people.
- Adjust the temperature to achieve the highest comfort level. Do not adjust the unit to excessive temperature levels.
- Close doors and windows when the unit is operating on COOL or HEAT modes, or the performance may be reduced.
- Use the TIMER ON button on the remote controller to select a time you want to start your air conditioner.
- Do not put any object near the air inlet or air outlet, as the efficiency of the air conditioner may be reduced and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating performance may be reduced.
- Do not operate unit with horizontal louvre in the closed position.
 Suggestion: Because the unit uses an electric heater, when the outside ambient temperature is below 32°F(0°C), we strongly recommend that you keep the machine plugged in to help the unit run smoothly.

Care and maintenance







Cleaning the Grille, Case and Remote Controller

• Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTE: Supply power must be disconnectd before cleaning the indoor unit.

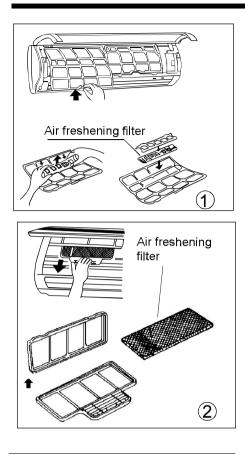
- A cloth dampened with cold water may be used on the indoor unit if it is very dirty. Then wipe it with a dry cloth.
- Do not use a chemically treated cloth or duster to clean the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.
- Never use water hotter than 104 °F(40 °C) to clean the front panel, it could cause deformation of discoloration.

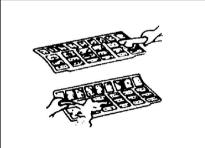
■ WALL-MOUNTED TYPE

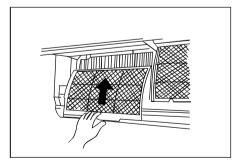
Cleaning the air filter

A clogged air filter reduces the cooling efficiency of this unit. Please clean the filter once every 2 weeks.

- 1. Lift the indoor unit panel up to an angle until it stops with a clicking sound.
- 2. Take hold of the handle of the air filter and lift it up slightly to take it out from the filter holder, then pull it downwards.
- 3. Remove the Active Carbon & Dust Filter from the indoor unit.
 - Clean the filter once every two weeks.
 - Clean the filter with a vacuum cleaner or water, then dry it up in cool place.







CARE AND MAINTENANCE

- Remove the Air Freshening Filter(Optional filter: Plasma Dust collector/Silver Ion filter /Bio filter / Vitamin C filter) from its support frame.
 - (The installation and removing method of the air freshening filter is different depending on the models, (see the images marked ① and ② on the left).
 - Clean the air freshening filter at least once a month, and replace it every 4-5 months.
- Clean it with a vacuum cleaner, then dry it in cool place.
- 5. Install the air freshening filter back into position.
- Insert the upper portion of air filter back into the unit taking care that the left and right edges line up correctly and place the filter into position.

Maintenance

If you plan to idle the unit for a long time, perform the following:

- (1) Operate the fan for about half a day to dry the inside of the unit.
- (2) Stop the air conditioner and disconnect the power. Remove the batteries from the remote controller.
- (3) The outdoor unit requires periodic maintenance and cleaning. Do not attempt this yourself. Contact your dealer or servicer.

Checks before operation

- Check that the wiring is not broken or disconnected.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

A Caution

- Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- When cleaning the unit, first make sure that the power and circuit breaker are turned off.

CARE AND MAINTENANCE

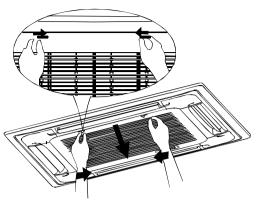


Fig. A

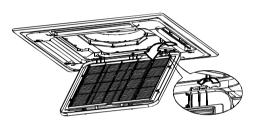


Fig.B

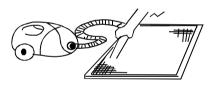


Fig. C

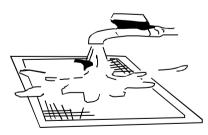


Fig. D

CASSETTE TYPE

- 1. Open the air-in grill
 - Push the grill switches towards the middle simultaneously as indicated in Fig. A. Then pull down the air-in grill.

Cautions: The control box cables ,which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.

- 2. Take out the air-in grill (together with the air filter shown in Fig. B). Pull the air-in grill down at 45 °and lift it up to take out the grill.
- 3. Dismantle the air filter.
- 4. Clean the air filter(vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, please use a soft brush and mild detergent to clean it and dry out in cool place).

DUCT AND CEILING TYPE

1. Open the air-in grill.

Push the grill switches towards the middle simultaneously as indicated in following figure sketch. Then pull down the air-in grill.

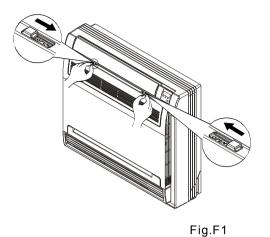
Cautions: The control box cables ,which are originally connected with the main body electrical terminators, must be pulled off before performing the previous step.

- 2. Take out the air-in grill.
- 3. Dismantle the air filter.
- 4. Clean the air filter (vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, please use a soft brush and mild detergent to clean it and dry out in cool place).
 - The air-in side should face up when using vacuum cleaner. (See Fig. C)
 - The air-in side should face down when using water. (See Fig. D)

Cautions : Do not dry out the air filter under direct sunshine or with fire.

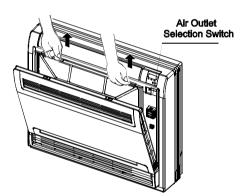
- 5. Re-install the air filter
- Install and close the air-in grill in the reverse order of step 1 and 2 and connect the control box cables to the corresponding terminators of the main body.

Note: The High-static Pressure Parvis Split Type has no air filter.



FLOOR AND STANDING TYPE(Console)

1. Open the front panel.(Refer to Fig. F1)



2. Remove the air filter

Press the claws on the right and left of the air filter down slightly, then pull upward.(Refer to Fig.F2)



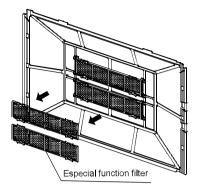


Fig.F3

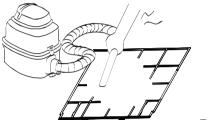


Fig.F4



Fig.F5

3. Take off the special function filter

Hold the tabs of the frame, and remove the claws in 4 places. (Refer to Fig. F3) $\,$

(The special function filter can be cleaned by washing it with water once every 6 months. We recommend replacing it once every 3 years.)

4. Clean the air filter

A vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, please use a soft brush and mild detergent to clean it and dry out in cool place.

The air-in side should face up when using a vacuum cleaner.(see Fig.F4)

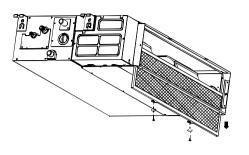
The air-in side should face down when using water (see Fig. F5).

5. Set the air filter and the special function filter as they were and close the front panel.

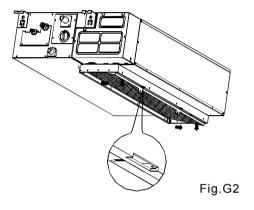
Operation without air filters may result in a malfunction as dust will accumulate inside the indoor unit.

CAUTION:

Do not dry the air filter by heat or under the direct sunlight.









- 1. Because the unit is a rear ventilated model, please remove the screws (2 pieces) fixed on the filter and pull the filter down away from the unit. See Fig.G1.
- 2. Because the unit is a descensional ventilated model, please push the filter up slightly for the position retainer to be removed from the flange fixed holes, and take off the filter according to the arrow direction shows in the Fig.G2.
- 3. Clean the air filter. A vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, please use a soft brush and mild detergent to clean it and dry out in cool place.
- 4. The air-in side should face up when using the vacuum cleaner.(see Fig.G3)The air-in side should face down when using water (see Fig. G4).

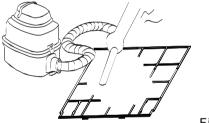


Fig.G3

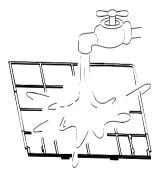


Fig.G4

OPERATION TIPS

Maintenance

If you plan to idle the unit for a long time, perform the following:

- 1. Clean the indoor unit and air filter.
- 2. Select the FAN only mode, let the indoor fan run for a while to dry the inside of the unit.
- 3. Disconnect the power supply and remove the battery from the remote control.
- 4. Check components of the outdoor unit periodically. Contact a local dealer or a customer service center if the unit requires servicing.
- **Note:** Before you clean the air conditioner, be sure to switch the unit off and disconnect the power supply plug.

When the air conditioner is to be used again:

- Use a dry cloth to wipe off the dust accumulated on the rear air intake grille, in order to avoid the dust blowing out from the indoor unit.
- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed.
- Check if the air outlet or inlet is blocked after the air conditioner has not been used for a long time.

Operation Tips

The following events may occur during normal operation.

1. Protection of the air conditioner.

Compressor protection

- The compressor can't restart for 3 minutes after it stops.
 - Anti-cold air (Cooling and heating models only)
- The unit is designed not to blow cold air on HEAT mode, when the indoor heat exchanger is in one of the following three situations and the set temperature has not yet been reached.
 - A) When heating has just starting.
 - B) Defrosting.
- C) Low temperature heating.
- The indoor or outdoor fan stop running when defrosting (cooling and heating models only). **Defrosting (cooling and heating models only)**
- Frost may be generated on the outdoor unit during a heat cycle when the outdoor temperature is low and humidity is high resulting in laower heating efficiency of the air conditioner.
- During this condition the air conditioner will stop the heating operation and start defrosting automatically.
- The time to defrost may vary from 4 to 10 minutes according to the outdoor temperature and the amount of frost buildup on the outdoor unit.

2. A white mist out of the indoor unit

- A white mist may generate due to a large temperature difference between the air inlet and the air outlet on the COOL mode in an indoor environment that has a high relative humidity.
- A white mist may generate due to moisture generated from the defrosting process when the air conditioner restarts in the HEAT mode operation after defrosting.

3. Low noise of the air conditioner

- You may hear a low hissing sound when the compressor is running or has just stopped running. This sound is the result of the refrigerant flowing or coming to a stop
- You can also hear a low "squeak" sound when the compressor is running or has just stopped running. This is caused by heat expansion and cold contraction of the plastic parts in the unit when the temperature is changing.
- A noise may be heard due to a louver restoring to its original position when the power is first turned on.

4. Dust is blown out from the indoor unit.

This is a normal condition when the air conditioner has not been used for a long time or during first use of the unit.

5. A peculiar smell comes out of the indoor unit.

This is caused by the indoor unit emitting odors extracted from building material, furniture, or smoke.

6. The air conditioner turns to the FAN only mode from COOL or HEAT (for cooling and heating models only) mode.

When the indoor temperature reaches the temperature setting on the air conditioner, the compressor stops automatically, and the air conditioner turns to the FAN only mode. The compressor will start again when the indoor temperature rises on the COOL mode or falls on the HEAT mode (for cooling and heating models only) to the set point.

7. Dripping water may accumulate on the surface of the indoor unit when cooling in a high relative humidity (higher than 80%). Adjust the horizontal louver to the maximum air outlet position and select the HIGH fan speed.

8. Heating mode (for cooling and heating models only)

The air conditioner draws in heat from the outdoor unit and releases it through the indoor unit during the heating operation. When the outdoor temperature falls, heat drawn in by the air conditioner decreases accordingly.

At the same time, heat loading of the air conditioner increases due to the larger difference between the indoor and outdoor temperature. If a comfortable temperature can't be achieved by the air conditioner, we suggest you use a supplementary heating device.

9. Auto-restart function

Power failure during operation will stop the unit completely.

For the unit without the Auto-restart feature, when the power restores, the OPERATION indicator on the indoor unit starts flashing. To restart the operation, push the ON/OFF button on the remote controller. For the unit with the Auto-restart feature, when the power restores, the unit restarts automatically with all the previous settings preserved by the memory function.

10. Lightning or a mobile telephone operating nearby may cause the unit to malfunction. Disconnect the unit's power source and then re-connect the unit to the power again. Push the ON/OFF button on the remote controller to restart operation.

TROUBLESHOOTING TIPS

Stop the air conditioner immediately if one of the following faults occur. Disconnect the power and contact the nearest customer service center.

If the E(0,1) or P(0, 1) code appears on the LED(LCD)window, disconnect the power and contact a service technician.			
Trouble	Fuse blows frequently or the circuit breaker trips frequently.		
	Other objects or water penetrate the air conditioner.		
	The remote controller won't work or works abnormally.		
	Other abnormal situations.		

Malfunctions	Cause	What should be done?
Unit does not start	Power cut	Wait for power to be restored.
	Unit may have become unplugged.	Check that the plug is securely in the wall receptacle.
	Fuse may have blown.	Replace the fuse.
	Battery in remote controller may have been exhausted.	Replace the battery.
	The time you have set with timer is incorrect.	Wait or cancel timer setting.
Unit not cooling or heating (cooling/ heating models only)	Inappropriate temperature setting.	Set temperature correctly. For detailed method please refer to the "Remote controller instruction" section.
room very well	Air filter is blocked.	Clean the air filter.
while air flowing	Doors or windows are open.	Close the doors or windows.
out from the air conditioner	Air inlet or outlet of indoor or outdoor unit has been blocked.	Clear obstructions away first, then restart the unit.
	Compressor 3 minutes protection has been activated.	Wait.

service center. Be sure to inform them of the detailed malfunctions and unit model.

Notes: Do not attempt to repair the unit yourself. Always consult an authorized service provider.

Copyright 2014 Carrier Corporation • 7310 W. Morris St. • Indianapolis, IN 46231

Edition Date: 11/14