



Inverter One- Two / One -Three/
One - Four Split-Type
ROOM AIR CONDITIONER
OWNER'S MANUAL

MODEL #: TAS-18MVHN/O
TAS-27MVHN/O
TAS-36MVHN/O



SEER 15

Please read this manual carefully and thoroughly before operating the unit.
If you still have any difficulties or problems, consult your dealer for help or Turbo Air Conditioning Corp.
Please keep this manual handy.

W1

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CAUTION

- Contact an authorised 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 authorised personnel only.
- Installation work must be performed in accordance with the national wiring standards by authorised personnel only.

SOCIABLE REMARK

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

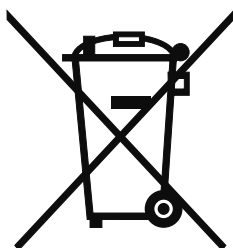
DISPOSAL: Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

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 at least free of charge to the user.
- B) When buying a new product, the retailer will take back the old product at least free of charge.
- C) The manufacture will take back the old appliance for disposal at least free of charge to the user.
- 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.

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

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

	Never do this.
	Always do this.

WARNING

① Connect with the power properly.

- Otherwise, it may cause electric shock or fire due to excess heat generation.

⊘ Do not operate or stop the unit by switching on or off the power.

- It may cause electric shock or fire due to heat generation.

⊘ Do not damage or use an unspecified power cord.

- It may cause electric shock or fire.

⊘ Do not modify power cord length or share the outlet with other appliances

- It may cause electric shock or fire due to heat generation.

⊘ Do not operate with wet hands or in damp environment.

- It may cause electric shock.

⊘ Do not direct airflow at room occupants only.

- This could damage your health.

① Always ensure effective earthing.

- No earthing may cause electric shock.

⊘ Do not allow water to run into electric parts.

- It may cause failure of machine or electric shock.

① Always install circuit breaker and a dedicated power circuit.

- No installation may cause fire and electric shock.

① Disconnect the power if strange sounds, smell, or smoke comes from it.

- It may cause fire and electric shock.

⊘ Do not drink water drained from air conditioner.

- It contains contaminants and could make you sick.

⊘ Do not open the unit during operation.

- It may cause electric shock.

① Use the correctly rated breaker or fuse.

- There is risk of fire or electric shock.

⊘ Do not use the power cord close to heating appliances

- It may cause fire and electric shock.

⊘ Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.

- It may cause an explosion or fire.

① Ventilate room before operating air conditioner if there is a gas leakage from another appliance.

- It may cause explosion, fire and, burns.

⊘ Do not disassemble or modify unit.

- It may cause failure and electric shock.

SAFETY PRECAUTIONS

CAUTION

⌚ When the air filter is to be removed, do not touch the metal parts of the unit.

- It may cause an injury.

⌚ Do not clean the air conditioner with water.

- Water may enter the unit and degrade the insulation. It may cause an electric shock.

⌚ Ventilate the room well when used together with a stove, etc.

- An oxygen shortage may occur.

⌚ When the unit is to be cleaned, switch off, and turn off the circuit breaker.

- Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury.

⌚ Do not put a pet or house plant where it will be exposed to direct air flow.

- This could injure the pet or plant.

⌚ Do not use for special purposes.

- Do not use this air conditioner to preserve precision devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.

⌚ Stop operation and close the window in storm or hurricane.

- Operation with windows opened may cause wetting of indoor and soaking of household furniture.

⌚ Do not place obstacles around air-inlets or inside of air-outlet.

- It may cause failure of appliance or accident.

⌚ Turn off the main power switch when not using the unit for a long time.

- It may cause failure of product or fire.

⌚ Do not use strong detergent such as wax or thinner. Use a soft cloth for cleaning.

- Appearance may be deteriorated due to change of product color or scratching of its surface.

⌚ Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure.

- If bracket is damaged, there is concern of damage due to falling of unit.

⌚ Always insert the filters securely. Clean filter once every two weeks.

- Operation without filters may cause failure.

⌚ Do not place heavy object on the power cord and take care so that the cord is not compressed.

- There is danger of fire or electric shock.

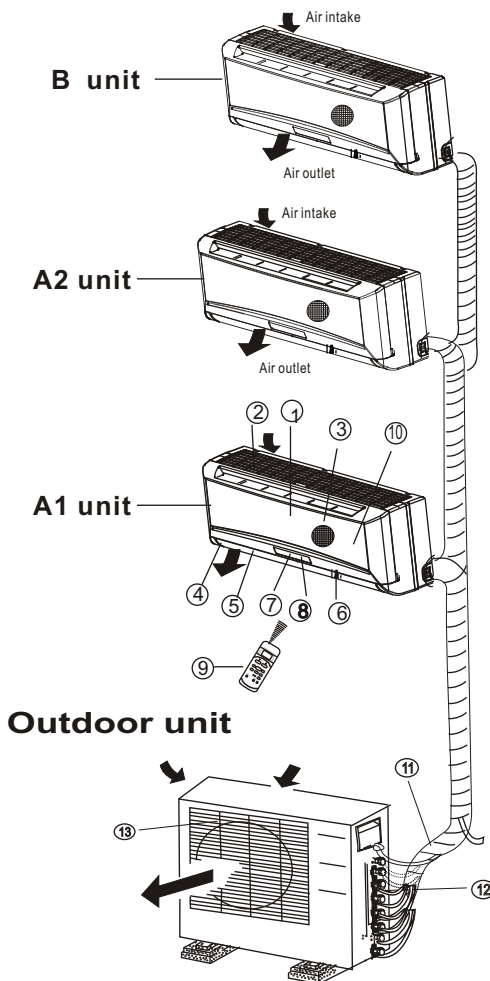
⌚ Use caution when unpacking and installing. Sharp edges could cause injury.

⌚ If water enters the unit, turn the unit off and disconnect the power, contact a qualified service technician.

OPERATING INSTRUCTIONS

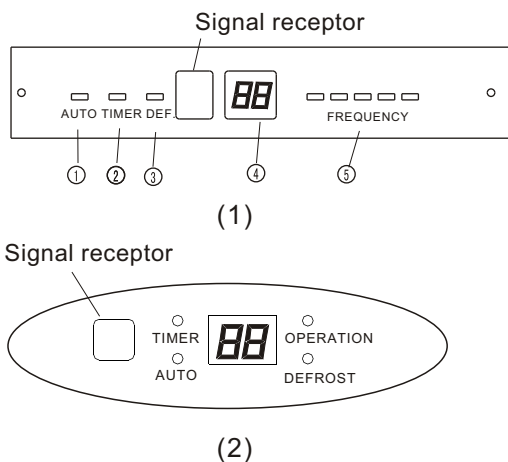
Identification of parts

Indoor unit



Outdoor unit

One-two/three type LED Display panel



IMPORTANT:

- For multi-split type air conditioner, one outdoor unit can match different types of indoor units. So all the pictures in this manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail.
- The following pages introduce several kinds of indoor units matching with the outdoor units.

Indoor unit

1. Front panel
2. Top air intake
3. Air filter(Inside)
4. Air outlet
5. Horizontal air flow louver
6. Vertical air flow louver(Internal)
7. Display panel
8. LED display window
9. Remote controller
10. Manual control button(Behind the front panel)

Outdoor unit

11. Refrigerant connecting pipe, drain hose and electric wiring
12. Stop valve
13. Air outlet

Display panel

AUTO indication lamp

Lights up during the Auto operation.

TIMER indication lamp

Lights up during Timer operation.

DEFROST indication lamp

(For Cooling & Heating models only):
Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.

DIGITAL DISPLAY indication lamp

Displays the current setting temperature. Only when the air conditioner is in FAN operation, it displays the actual room temperature. And displays the malfunction code or protection code.

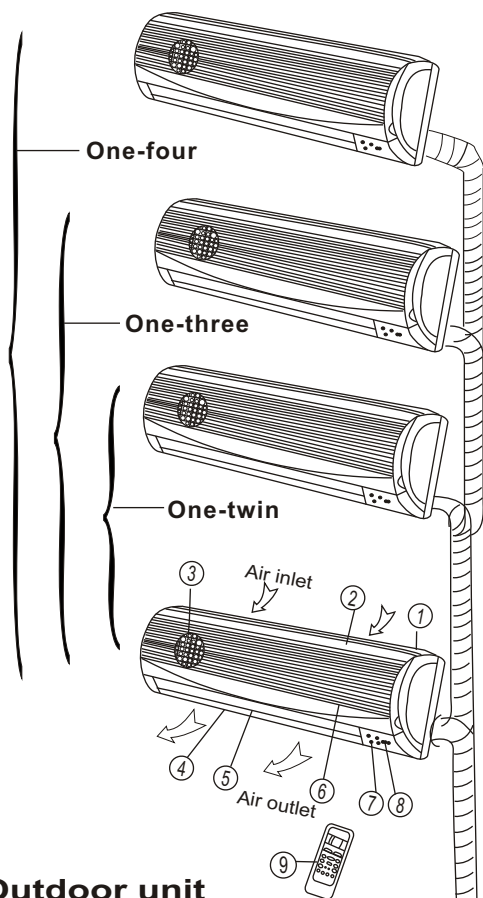
OPERATION indication lamp

This indicator appears only when the compressor is in operation and indicates the current operating frequency.

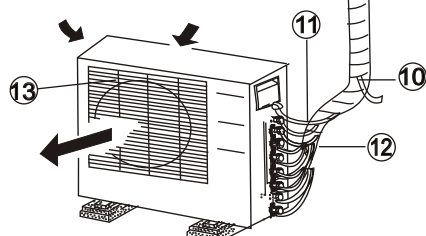
OPERATING INSTRUCTIONS

Identification of parts

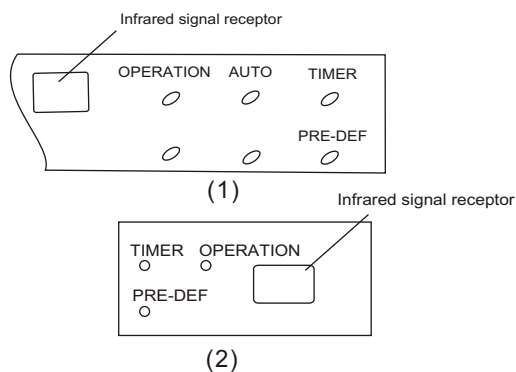
Indoor unit



Outdoor unit



DISPLAY PANEL



Indoor unit

- ① Front panel frame
- ② Front panel
- ③ Air filter
- ④ Horizontal air flow grille
- ⑤ Vertical air flow louver
- ⑥ Room temperature sensor
- ⑦ Display panel
- ⑧ Infrared signal receiver
- ⑨ Remote controller

Outdoor unit

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

DISPLAY PANEL

OPERATION indicator:

The indicator flashes once every second after power is on and illuminates when the air conditioner is in operation.

TIMER indicator:

The indicator illuminates when TIMER is set ON.

PRE-DEF. Indicator (For cooling& heating model only):

This indicator illuminates when the air conditioner starts defrosting automatically or when the Anti-cold air function is activated in heating operation.

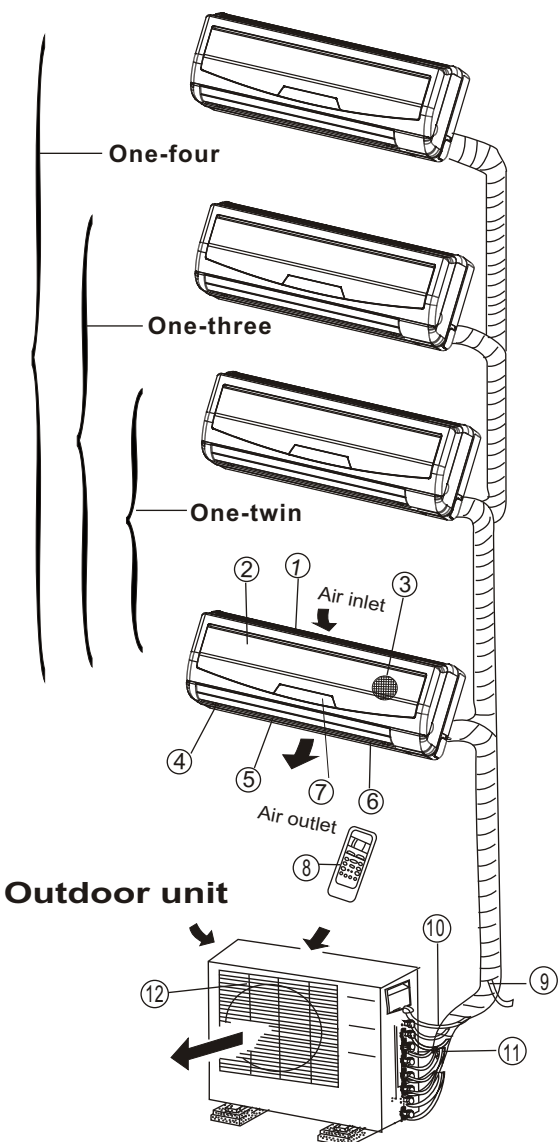
AUTO indicator:

This indicator flashes when the air conditioner is in AUTO operation.

OPERATING INSTRUCTIONS

Identification of parts

Indoor unit



Outdoor unit

Indoor unit

- ① Front panel frame
- ② Front panel
- ③ Air filter
- ④ Horizontal air flow grille
- ⑤ Vertical air flow louver
- ⑥ Room temperature sensor
- ⑦ Display panel
- ⑧ Remote controller

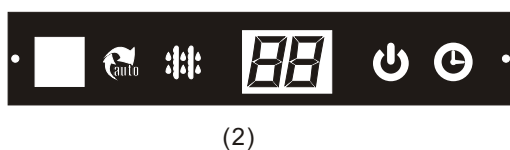
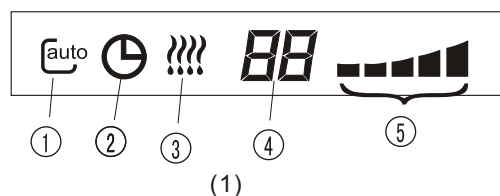
Outdoor unit

- ⑨ Drain hose, refrigerant connecting pipe
- ⑩ Connective cable
- ⑪ Stop valve
- ⑫ Fan hood

LED DISPLAY WINDOW

- ① **AUTO indication lamp**
Lights up during the Auto operation.
- ② **TIMER indication lamp**
Lights up during Timer operation.
- ③ **DEFROST indication lamp**
(For Cooling & Heating models only):
Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.
- ④ **DIGITAL DISPLAY indication lamp**
Displays the current setting temperature. Only when the air conditioner is in FAN operation, it displays the actual room temperature. And displays the malfunction code or protection code.
- ⑤ **OPERATION indication lamp**
This indicator appears only when the compressor is in operation and indicates the current operating frequency.

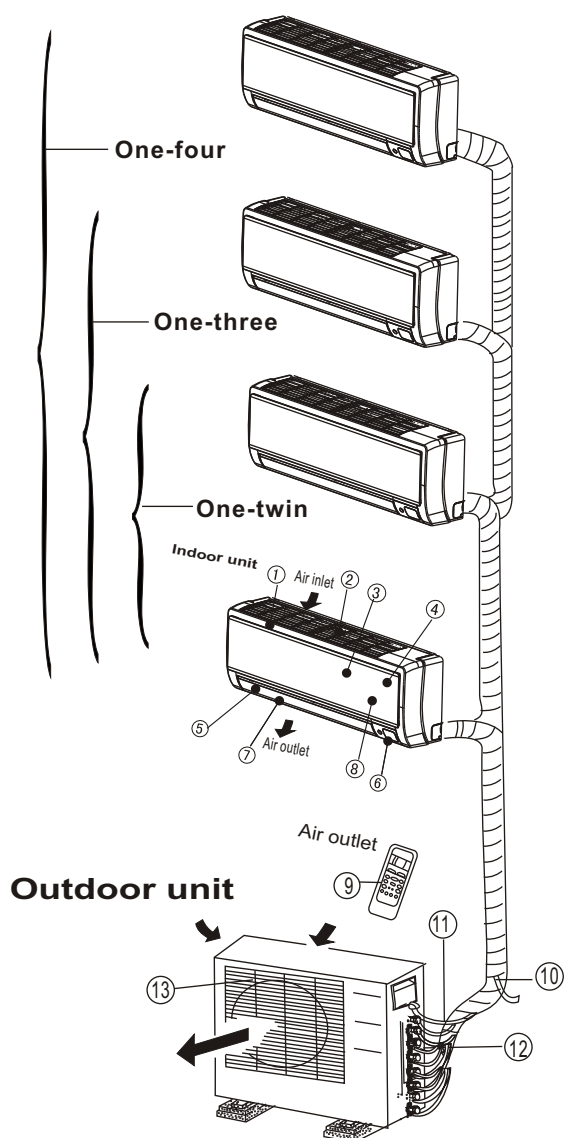
LED Display window



OPERATING INSTRUCTIONS

Identification of parts

Indoor unit



Indoor unit

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

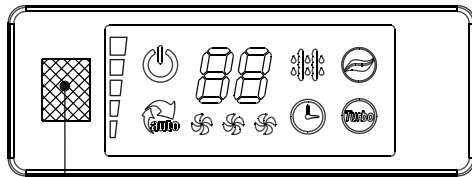
Outdoor unit

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

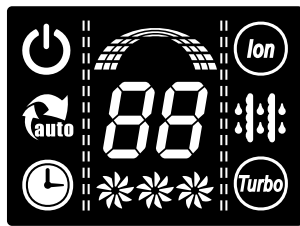
OPERATING INSTRUCTIONS

Display window

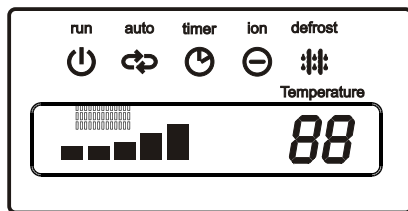
NOTE: The display window on the air conditioner you purchased may look like one of the following:



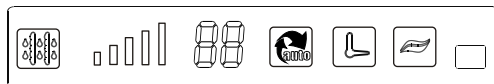
Signal receptor
(1)



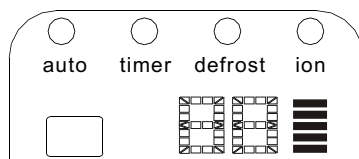
(2)



(3)



(4)



(5)



OPERATION display

Displayed when the air conditioner is in operation.



AUTO operation display

Displayed during Auto operation.



DEFROST operation display

(For Heating & Cooling model only):

Displayed when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.



TIMER display

Displayed during Timer operation.



CLEAN AIR display(optional)

Displayed when CLEAN AIR feature is activated.



TURBO operation display

Displayed when select TURBO function on cooling operation or on heating operation.



DIGITAL DISPLAY

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



FAN SPEED display

Displayed the selected fan speed: LOW(), MED() and HIGH().



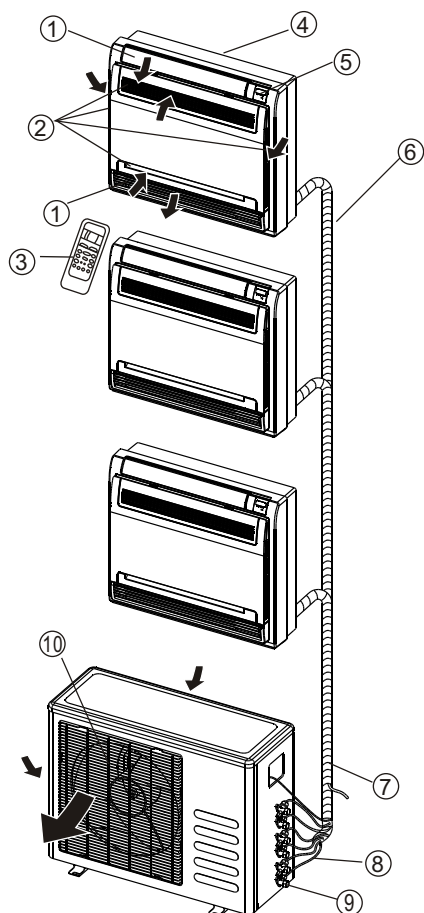
Frequency indication lamp

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

OPERATING INSTRUCTIONS

Identification of parts

Floor and standing type(console) Indoor unit



Indoor unit

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

Outdoor unit

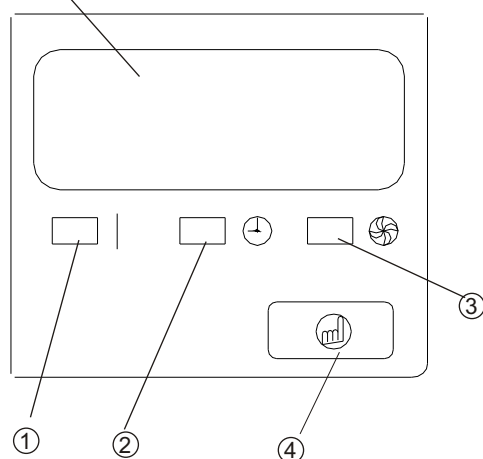
7. Drain hose, refrigerant connecting pipe
8. Connective cable
9. Stop valve
10. Fan hood

DISPLAY PANEL:

- ① **OPERATION indication lamp**
This indicator illuminates when the unit is operational.
- ② **TIMER indication lamp**
Lights up during Timer operation.
- ③ **DEFROST indication lamp**(Cooling & Heating models only) **or Fan only indication lamp** (Cooling only type):
Lights up when the air conditioner starts defrosting automatically in heating operation or 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 will lead to the forced AUTO operation. If press the button twice within five seconds, the unit will operate under forced COOL operation. The forced COOL operation is used for testing purposes only, please do not choose it unless it is necessary.

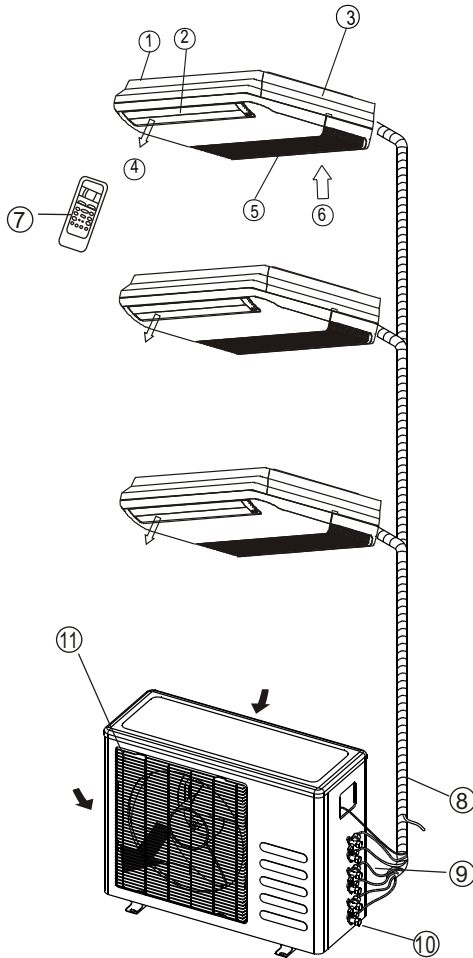
Display panel

Infrared signal receiver



Identification of parts

Floor and standing type(console) Indoor unit



Indoor unit

1. Indoor unit
2. Air flow louver (at air outlet)
3. Installation part
4. Air out
5. Air inlet(with air filter in it)
6. Air in
7. Remote controller

Outdoor unit

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

DISPLAY PANEL:

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

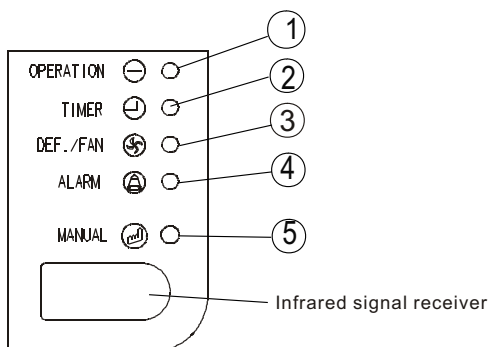
- ② **TIMER indication lamp**
Lights up during Timer operation.

- ③ **DEF./FAN indication lamp**
Lights up when the air conditioner starts defrosting automatically in heating operation (applicable to cooling & heating models only) or fan only mode is selected(applicable to cooling only models).

- ④ **AIARM indication lamp**
Flashes when malfunction occurs.

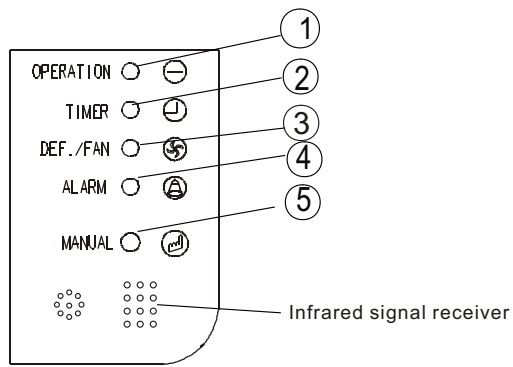
Display panel

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

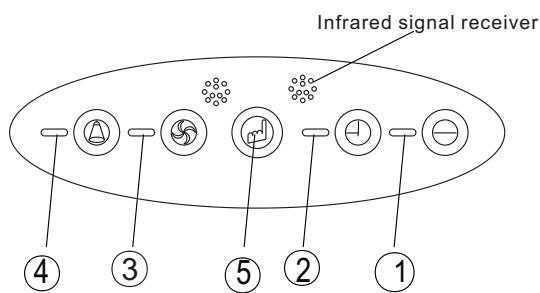


(1)

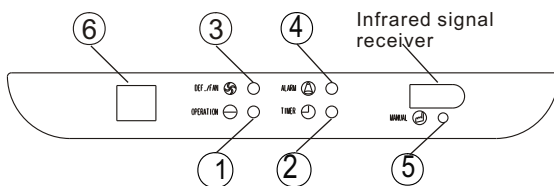
OPERATING INSTRUCTIONS



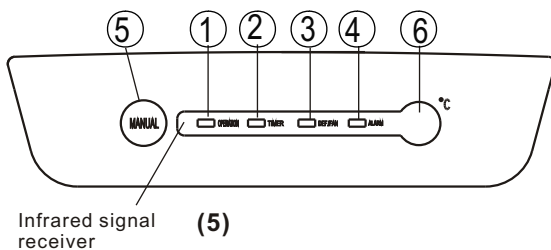
(2)



(3)



(4)



(5)

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 press the button twice within five seconds, the unit will operate under 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.

OPERATING INSTRUCTIONS

NOTE: This manual does not include Remote Controller Operations, see the <<Remote Controller Instruction>> packed with the unit for details.

Operating temperature

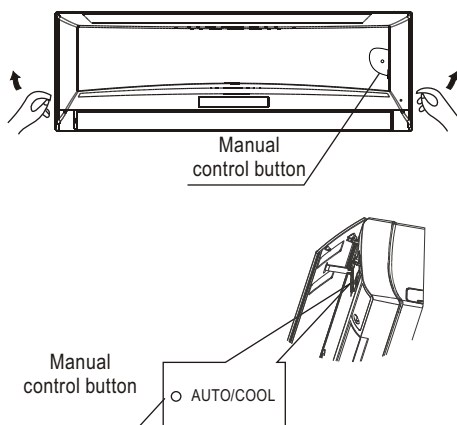
Mode Temperature	Cooling operation	Heating operation	Drying operation
Room temperature	$\geq 17^{\circ}\text{C}(62.6^{\circ}\text{F})$	$\leq 30^{\circ}\text{C}(86^{\circ}\text{F})$	$> 10^{\circ}\text{C}(50^{\circ}\text{F})$
Outdoor temperature	$0^{\circ}\text{C}(32^{\circ}\text{F}) \sim 50^{\circ}\text{C}(122^{\circ}\text{F})$	$-15^{\circ}\text{C}(5^{\circ}\text{F}) \sim 24^{\circ}\text{C}(75.2^{\circ}\text{F})$	$0^{\circ}\text{C}(32^{\circ}\text{F}) \sim 50^{\circ}\text{C}(122^{\circ}\text{F})$
	($-15^{\circ}\text{C}(5^{\circ}\text{F}) \sim 50^{\circ}\text{C}(122^{\circ}\text{F})$ For the models with low temperature cooling system)		

CAUTION:

1. If air conditioner is used outside of the above conditions, certain safety protection features may come into operation and cause the unit to function abnormally.
2. Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation. Please sets the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.
3. Optimum performance will be achieved within these operating temperature.

Manual operation

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



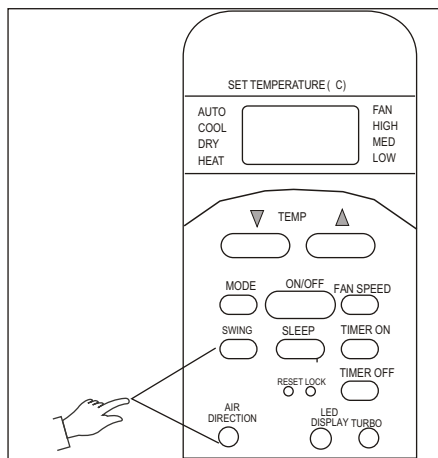
NOTE: The unit must be turned off before operating the manual control button. If the unit is operational, continue pressing the manual control button until the unit is off.

- ① Open and lift the front panel up to an angle until it remains fixed with a clicking sound.
- ② One press of the manual control button will lead to the forced AUTO operation. If press the button twice within five seconds, the unit will operate under 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 to operate the Manual button.

OPERATING INSTRUCTIONS

Airflow direction control



NOTE: The remote controller is different types depending on the indoor units. Please refer to the <<REMOTE CONTROLLER ILLUSTRATION>> supplied with the unit to operate the unit properly if your remote controller is different with the following instructions.

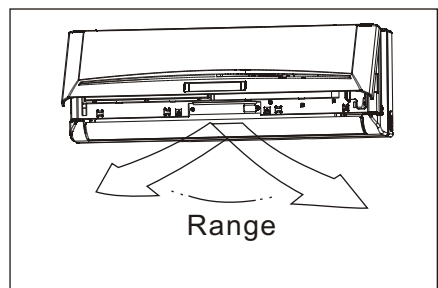
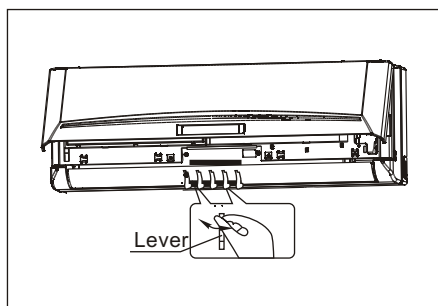
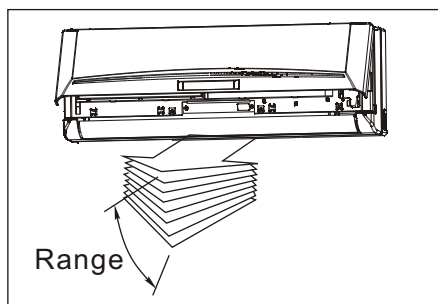
- Adjust the air flow direction properly, otherwise it might cause discomfort or cause uneven room temperatures.
- Adjust the horizontal louver using the remote controller.
- Adjust the vertical louver manually.

To set the vertical air flow(Up--Down) direction

Perform this function while the unit is in operation. Keep pressing the AIR DIRECTION button on the remote controller to move the louver to the desired direction. The readjusting angle of the horizontal louver is 6° for each press.

To set the horizontal air flow direction (left - right)

Adjust the vertical louver manually using the lever on the left or right side of the vertical louver arm (Depending on model). Take care not to catch fingers on the fan, horizontal louver or to damage vertical louvers. When the air conditioner is in operational and the horizontal louver is in a specific position, move the lever at left (or right, depending on model) end of the air outlet to the desired position.



To automatically swing the air flow direction (up - down)

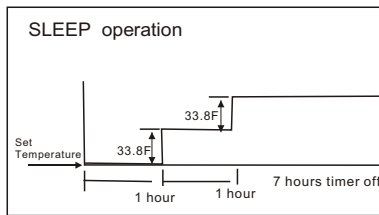
Perform this function while the air conditioner is in operation.

- Keep pressing the AIR DIRECTION button without releasing for more than 2 seconds or press the SWING button on the remote controller, the horizontal louver will swing up and down automatically.
- To stop the function, press the SWING button again.

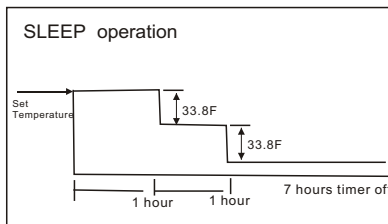
CAUTION

- The SWING and AIR DIRECTION button will be disabled when the air conditioner is not in operation(including when the TIMER ON is set).
- Do not operate the air conditioner for long periods with the air flow direction set downward in cooling or dry mode. Otherwise, condensation may occur 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. Always use the SWING or AIR DIRECTION button.
- 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 small, as COOLING or HEATING performance may be impaired due to too restricted air flow area. Do not operate unit with horizontal louver in 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 operation.

How the air conditioner works



Cooling



Heating

AUTO operation

- When you set the air conditioner in 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 will control 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 remote controller during cooling, heating (cooling only type without), or AUTO operation, the air conditioner will automatically increase (cooling) or decrease (heating) 1°C (33.8°F) per hour.
- The set temperature will be steady 2 hours later. And the air conditioner will be timer off in 7 hours.
- The fan speed will be automatically controlled.
- This feature can maintain the most comfortable temperature and save more energy for you.

DRYING operation

- The fan speed will be automatically controlled under dry operation.
- During the dry operation, if the room temperature is lower than 10°C (50°F), the compressor stops operation and restarts until the room temperature is above 12°C (53.6°F).

OPERATING INSTRUCTIONS

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 initially started operates under heat mode, the other units can operate under heat mode only. For example: If the unit initially started operates under cool(or fan) mode, the other units can operate under any mode except heat. If one of the unit selects heat mode, the other operating units will stop operation and display "P5" (For the units with display window only) or the Auto and Operation indication light flash rapidly, the Defrost indication light turn off, the Timer indication light remain on (For the units without 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).

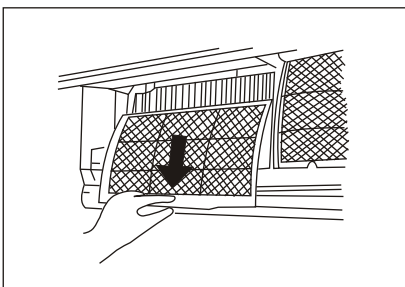
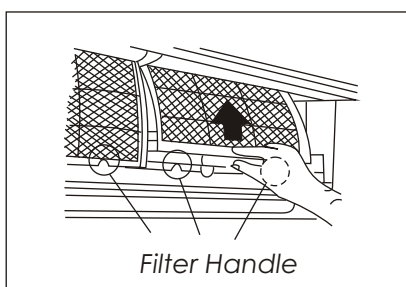
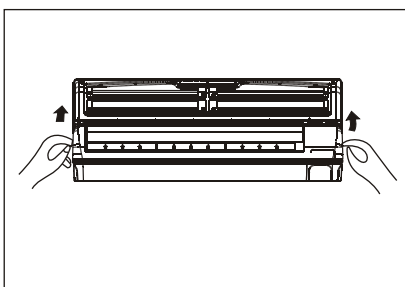
Optimal operation

To achieve optimal performance, please note the following:

- Adjust the air flow direction correctly so that it is not directed on people.
- Adjust the temperature to achieve the highest comfort level. Do not adjust the unit to excessive temperature levels.
- Close doors and windows on COOL or HEAT modes, or performance may be reduced.
- Use TIMER ON button on the remote controller to select a time you want to start your air conditioner.
- Do not put any object near 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 closed position.

Suggestion: For the unit adopts an Electric Heater, when the outside ambient temperature is below 0°C(32°F), we strongly recommend you to keep the machine plugged in order to guarantee it running 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 disconnected before cleaning the indoor unit.

⚠ CAUTIONS

- 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 40°C (104°F) to clean the front panel, it could cause deformation or discoloration.

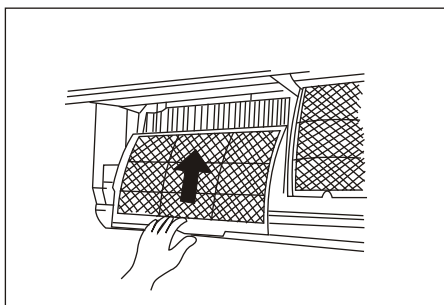
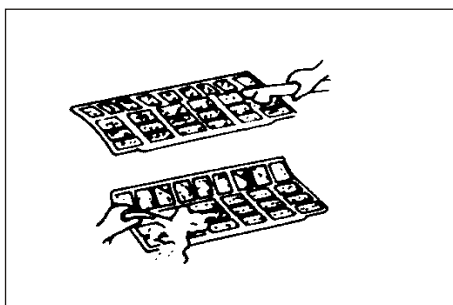
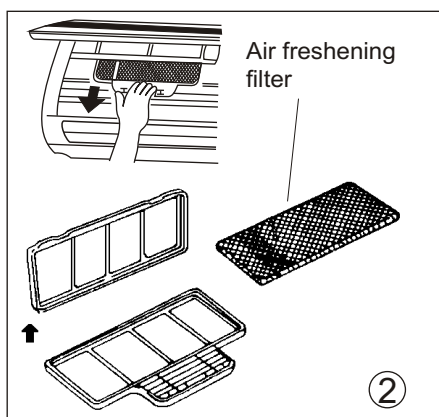
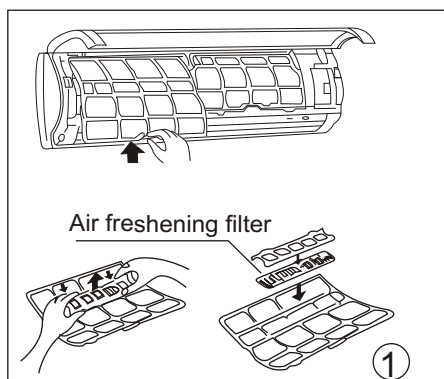
■ WALL-MOUNTED TYPE

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 it once two weeks.
 - Clean the it with a vacuum cleaner or water, then dry it up in cool place.

CARE AND MAINTENANCE



4. 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 pictures 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 vacuum cleaner, then dry it in cool place.

5. Install the air freshening filter back into position.

6. Insert the upper portion of air filter back into the unit taking care that the left and right edges line up correctly and place 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 power. Remove the batteries from the remote controller.
- (3) The outdoor unit requires periodic maintenance and cleaning. Do not attempt to do this yourself. Contact your dealer or servicer.

Checks before operation

- 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.

⚠ 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.

■ 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 soft brush and mild detergent to clean it and dry out in cool place) .

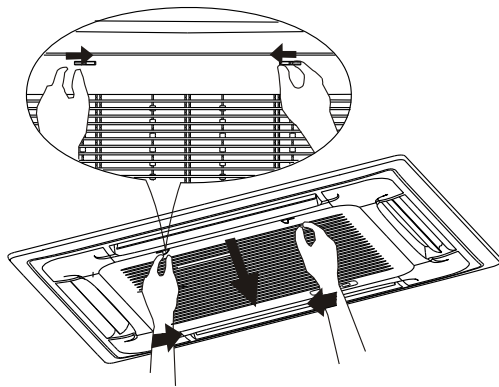


Fig. A

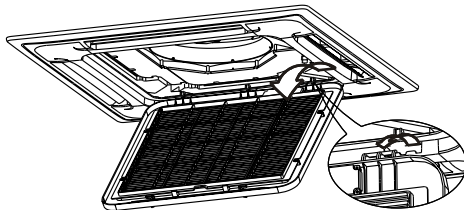


Fig. B

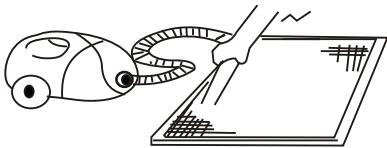


Fig. C

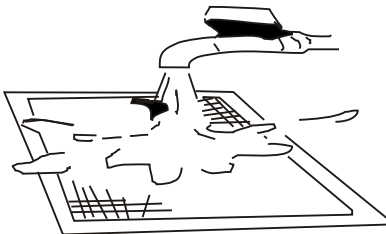


Fig. D

■ DUCT AND CEILING TYPE

1. Open the air-in grill

Push the grill switches towards the middle simultaneously as indicated in follow 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 doing as indicated above.

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 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

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

CARE AND MAINTENANCE

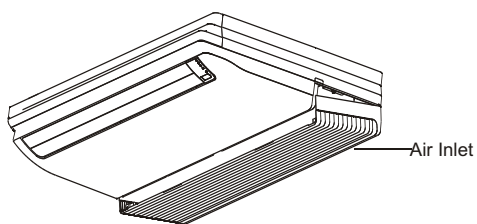


Fig.E1

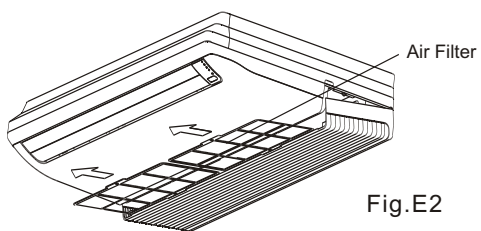


Fig.E2

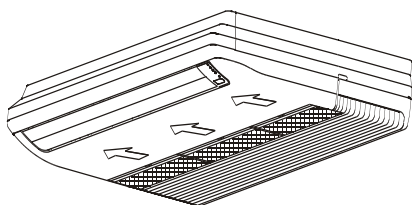


Fig.E3

■ CEILING AND FLOOR TYPE

For ≤ 36000 Btu/h models

1. Open the air intake (see Fig.E1).
2. Take out the air filter(see Fig.E2).
3. Clean the air cleaning filter with water or vacuum cleaner, then dry it in cool place.
4. Re-install the air filter in the reverse order of Fig.E2.

For ≥ 48000 Btu/h models

1. Directly pull out the air filter from air inlet as indicated in Fig.E3.
2. Clean the air cleaning filter with water or vacuum cleaner, then dry it in cool place.
3. Re-install the air filter in the reverse order of Fig.E3.

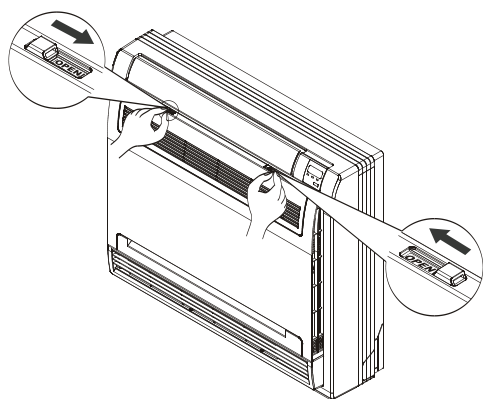


Fig.F1

■ FLOOR AND STANDING TYPE(Console)

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

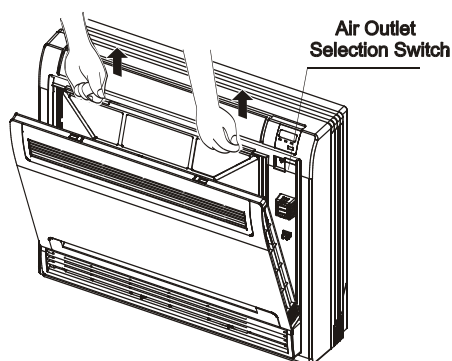


Fig.F2

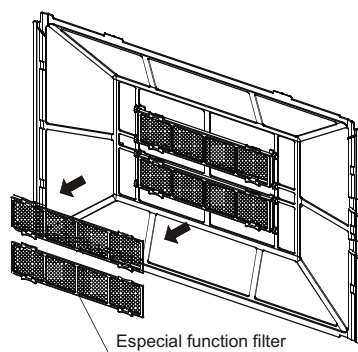


Fig.F3

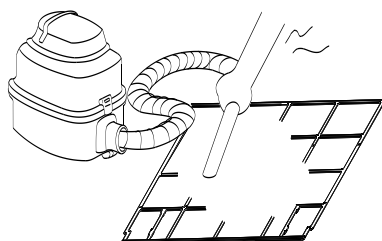


Fig.F4

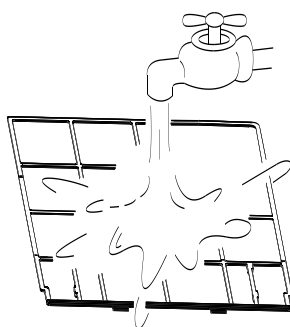


Fig.F5

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)

3. Take off the especial function filter

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

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

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 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.F4)

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

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

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

⚠ CAUTION:

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

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 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 battery from the remote control.
4. Check components of the outdoor unit periodically. Contact a local dealer or a customer service centre 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 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 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 heat cycle when outdoor temperature is low and humidity is high resulting in lower heating efficiency of the air conditioner.
- During this condition air conditioner will stop 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 coming out from the indoor unit

- A white mist may generate due to a large temperature difference between air inlet and air outlet on COOL mode in an indoor environment that has a high relative humidity.
- A white mist may generate due to moisture generated from defrosting process when the air conditioner restarts in 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 sound 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 louver restoring to its original position when 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 from the indoor unit.

This is caused by the indoor unit giving off smells permeated from building material, from furniture, or smoke.

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

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

7. Dripping water may generate on the surface of the indoor unit when cooling in a high relative humidity (relative humidity higher than 80%). Adjust the horizontal louver to the maximum air outlet position and select 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 via the indoor unit during 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 larger difference between 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 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 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 car wireless telephone operating nearby may cause the unit to malfunction.

Disconnect the unit with power and then re-connect the unit with 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.

Trouble	If the E(0,1.....) or P(0, 1) code appears on the LED(LCD)window, disconnect the power and contact the service people.
	Fuse blows frequently or 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 plug is securely in 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) room very well while air flowing out from the air conditioner	Inappropriate temperature setting.	Set temperature correctly. For detailed method please refer to "Remote controller instruction" section.
	Air filter is blocked.	Clean the air filter.
	Doors or Windows are open.	Close the doors or windows.
	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.

If the trouble has not been corrected, please contact a local dealer or the nearest customer 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 authorised service provider.**

ROOM AIR CONDITIONER INSTRUCTION

Remark per EMC Directive 89/336/EEC

To prevent flicker impressions during the start of the compressor (technical process) following installation conditions do apply:

1. The power connection for the air conditioner has to be done at the main power distribution. This distribution has to be of an low impedance. Normally, the required impedance is reached at a 32A fusing point. Air conditioner fuse has to be 16A max!
2. No other equipment has to be connected to this power line.
3. For detailed installation acceptance, please refer to your contract with the power supplier.
If restrictions do apply for products like washing machines, air conditioners or electrical ovens.
4. For power details of the air conditioner refer to the rating plate of the product.

CONSIGNES D'INSTALLATION RACCORDEMENT ELECTRIQUE

Remarques relatives à la Directive EMC 89/336/CEE

Pour éviter les phénomènes de scintillements (variation de lumière) et les parasites lors du démarrage du compresseur, respecter les consignes d'installation décrites dans le mode d'emploi.

1. Le raccordement au secteur doit être fait à l'aide d'un câble de section suffisante pour éviter tout échauffement de celui-ci et les chutes de tension (section recommandée 3x4mm²)
Cette ligne doit être protégée par un fusible ou disjoncteur de 16A
2. Aucun autre appareil ne doit être connecté sur cette ligne.
3. En cas de doute ou de difficulté contactez votre agence EDF. Vérifiez qu'il n'existe pas de contraintes particulières pour l'installation et l'utilisation de ce climatiseur.
4. Pour les caractéristiques de l'appareil référez vous à sa plaque signalétique.

ISTRUCCIONES DE INSTALACION DEL AIRE ACONDICIONADO

Comentario de la Directiva 89/336 EEC de la EMC.

Para prevenir la sensación de golpeo al arrancar el compresor (proceso técnico) debe aplicarse las siguientes instrucciones de instalación

1. La conexión del aire acondicionado a la corriente eléctrica tiene que ser hecha a la distribución principal de energía. Esta distribución tiene que ser de baja impedancia. Normalmente, la impedancia requerida se alcanza en el punto de fusión de 32A. El fusible del aire acondicionado tiene que ser de 16A máximo.
2. Ningún otro equipo debe ser conectado a esta línea eléctrica.
3. Para normas detalladas de instalación por favor consulte el contrato con su suministrador eléctrico, si tiene que aplicar restricciones para productos como lavadoras, aire acondicionado u hornos eléctricos.
4. Para detalles sobre la alimentación eléctrica del aire acondicionado consulte la placa de datos del aparato.

ANWEISUNGEN ZUR INSTALLATION DER RAUM-KLIMAANLAGE

Hinweis entsprechend EMV-Direktive 89/336/EEC

Um einen "Flicker-Effekt" beim Anlauf des Kompressors (kurzzeitiger Spannungseinbruch, technischer Vorgang) zu vermeiden, muß für folgende Installationsbedingungen gesorgt sein. (siehe auch "Anweisungen zur Installation.")

1. Der Stromanschluß für die Klimaanlage muß am Hauptverteiler vorgenommen werden. Die Abzweigung muß mit niedriger Impedanz ausgeführt werden. Normalerweise ist die erforderliche niedrige Impedanz bei einem Sicherungsanschlußpunkt von 32A erreicht.
2. An die gleiche Netzleitung dürfen keine anderen Geräte angeschlossen sein.
3. Seitens der lokalen Energieversorgungsunternehmen bestehen möglicherweise Einschränkungen für Produkte wie Waschmaschinen, Klimaanlage, elektrische Öfen, etc. Für Einzelheiten zur Installation sehen Sie in Ihren Vertrag mit dem Energieversorgungsunternehmen.
4. Einzelheiten über die elektrischen Daten der Klimaanlage ersehen Sie auf dem Typenschild des Gerätes.

ISTRUZIONI PER L'INSTALLAZIONE DEL CONDIZIONATORE D'ARIA PER STANZE

NOTA DELLA DIRETTIVA EMC 89/336 EEC

Allo scopo di prevenire l'effetto di FLICKER (variazione della luce) alla partenza del compressore, durante l'installazione seguire i punti sottoelencati.

1. Il collegamento dell'alimentazione, del condizionatore, deve essere fatto con una linea preferenziale direttamente al quadro principale o contatore, e deve essere a bassa impedenza.
Normalmente questa impedenza la si ottiene al punto di fusione di 32 A; per il condizionatore usare un fusibile da 16 A max.
2. Nessun altro apparecchio elettrico dovrà essere collegato alla stessa linea di alimentazione.
3. Per maggiori dettagli circa l'accettazione dell'installazione del condizionatore, fare riferimento al contratto con l'Ente erogatore dell'Energia Elettrica e verificare che non ci siano restrizioni in atto all'installazione di prodotti elettrici ad alto consumo.
4. Per le informazioni relative ai dati di alimentazione del condizionatore, fare riferimento all'etichetta posta sul prodotto.

SAFETY INSTRUCTIONS

PLEASE READ THE FOLLOWING SAFETY INSTRUCTIONS BEFORE INSTALLING AND OPERATING THE UNIT:

This air conditioner meets strict safety and operating standards. The installer of this unit must install or service this unit so it operates safely and efficiently.

IMPORTANT NOTES

- Adhere to all safety instructions and warnings throughout this manual.
- Read this manual carefully before installing or operating this unit to become familiar with its features and obtain the performance that will bring you continued enjoyment for many years.
- Follow each installation or repair step exactly as shown in the manual.
- Observe all local, state and national electric codes. Contact your local government for more information on electrical codes.



The lightning flash with the arrowhead symbol, within an equilateral triangle is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Contact Installer if Necessary:

The installation instructions are for a experienced installer. If you are not an experienced installer, contact a local installer for help. If you require help with service, contact your certified dealer or Turbo-Air Inc. for additional instructions.

If Unit is Installed Improperly:

The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this manual.

WARNING:

- ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELECTRICIAN/INSTALLER SHOULD ATTEMPT TO WIRE THIS SYSTEM.
- THE APPLIANCE IS NOT INTENDED FOR USE BY CHILD OR INFIRM PERSONS WITHOUT SUPERVISION.
- YOUNG CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE

Precautions When Wiring:

- Do not plug in the unit until all connections (tubing, drain hose, mounting, etc.) have been made and double-checked.
- High voltages are present in this unit and are very dangerous. Please refer to these instructions and diagrams when wiring. Improper connections or inadequate grounding can cause accidental injury.
- This unit must be grounded in accordance with local electrical codes.
- Connect wires and pipes securely and tightly as loose connections/wiring may cause overheating at connections and a possible fire hazard.

Precautions When Transporting:

- When transporting the unit, be very careful and get help because the units are heavy. Be careful of sharp edges on the units also.

Precautions When Installing:

- **When installing in a ceiling or wall**, make sure the ceiling/wall is strong enough to hold the unit's weight. A frame may be necessary for added support.
- **When installing in a room**, make sure the tubes become well insulated to protect the walls and furniture from sweating of the tubes.
- **When installing in moist or uneven locations**, make sure to use a raised level concrete pad or concrete blocks to provide a level, solid foundation for the outdoor unit; this prevents water damage and vibration.
- **When installing in an area of high winds**, make sure to securely anchor the outdoor unit down with bolts and a metal frame.

When Connecting Refrigerant Tubing:

- Keep all tubing as short as possible.
- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten, making sure not to overtighten.
- Check the tubes carefully for leaks before starting the test run.

When Servicing:

- Make sure the power is off and the unit is unplugged before opening the unit to troubleshoot or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the sight after you finish, making sure no metal scraps and wiring are left in the unit.
- The Air conditioner shall be installed in accordance with the national wiring regulation.
- The equipment fulfills the requirements in EN 61 000-3-11 and is subject to conditional connection to the mains.
- It may be connected in consultation with the supply authority.
- The equipment may only be connected to a mains supply with a system impedance of less than 0.3 ohm.
- The system impedance in the interface point may be obtained from the supply authority.
- If the mains supply has a higher system impedance, short voltage dips may appear when the equipment is started or during operation.
- This may influence or disturb the operation of other apparatuses, e.g. flickering lamps, especially those connected to the same supply mains.

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.

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