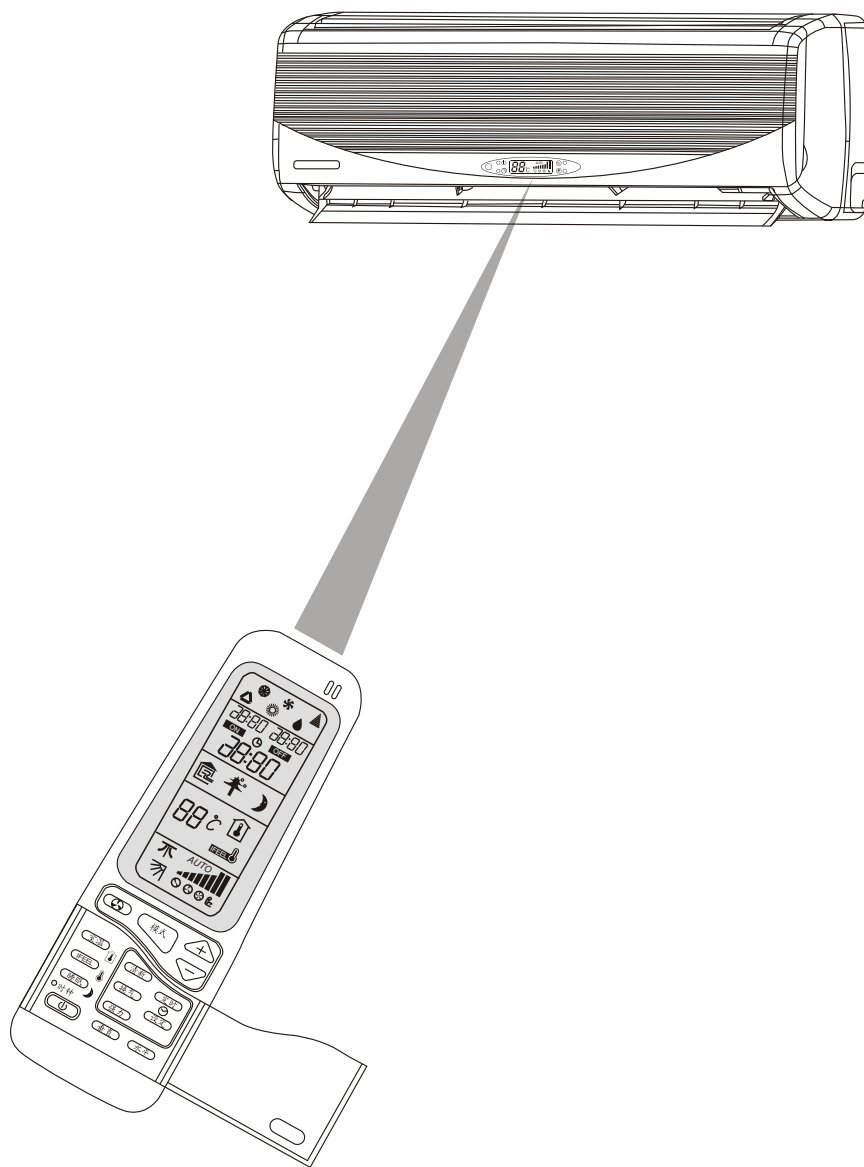


AIR CONDITIONER SPLIT WALL MOUNTED



XLM9 TO 14 RCA(STA) / GCXLM9 TO 14RCA (STA)

PROGRAMMING AND OPERATION MANUAL INSTALLATION INSTRUCTIONS

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If your air conditioner is for cooling only, please disregard the heating instructions

Please read these instructions before operating the air conditioner

INTRODUCTION

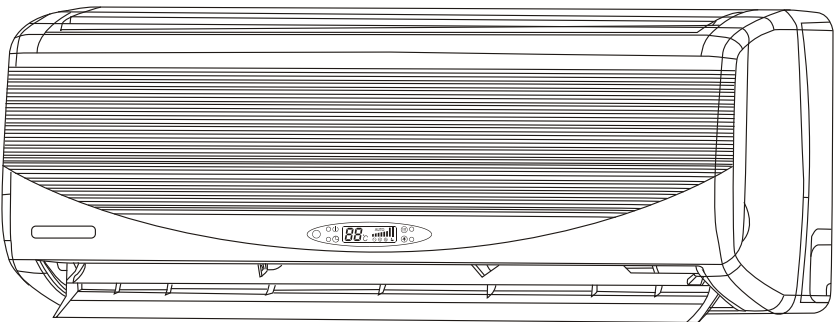
The air conditioner is designed for various uses:

| | |
|---|--|
|  | • Cooling in summer. |
|  | • Dehumidifying at high humidity conditions. |
|  | • Heating. |
|  | • Ventilation |

OPERATING TEMPERATURE RANGE:
(According to T_i temperature condition)

Cooling: $21^{\circ} \sim 43^{\circ}\text{C}$

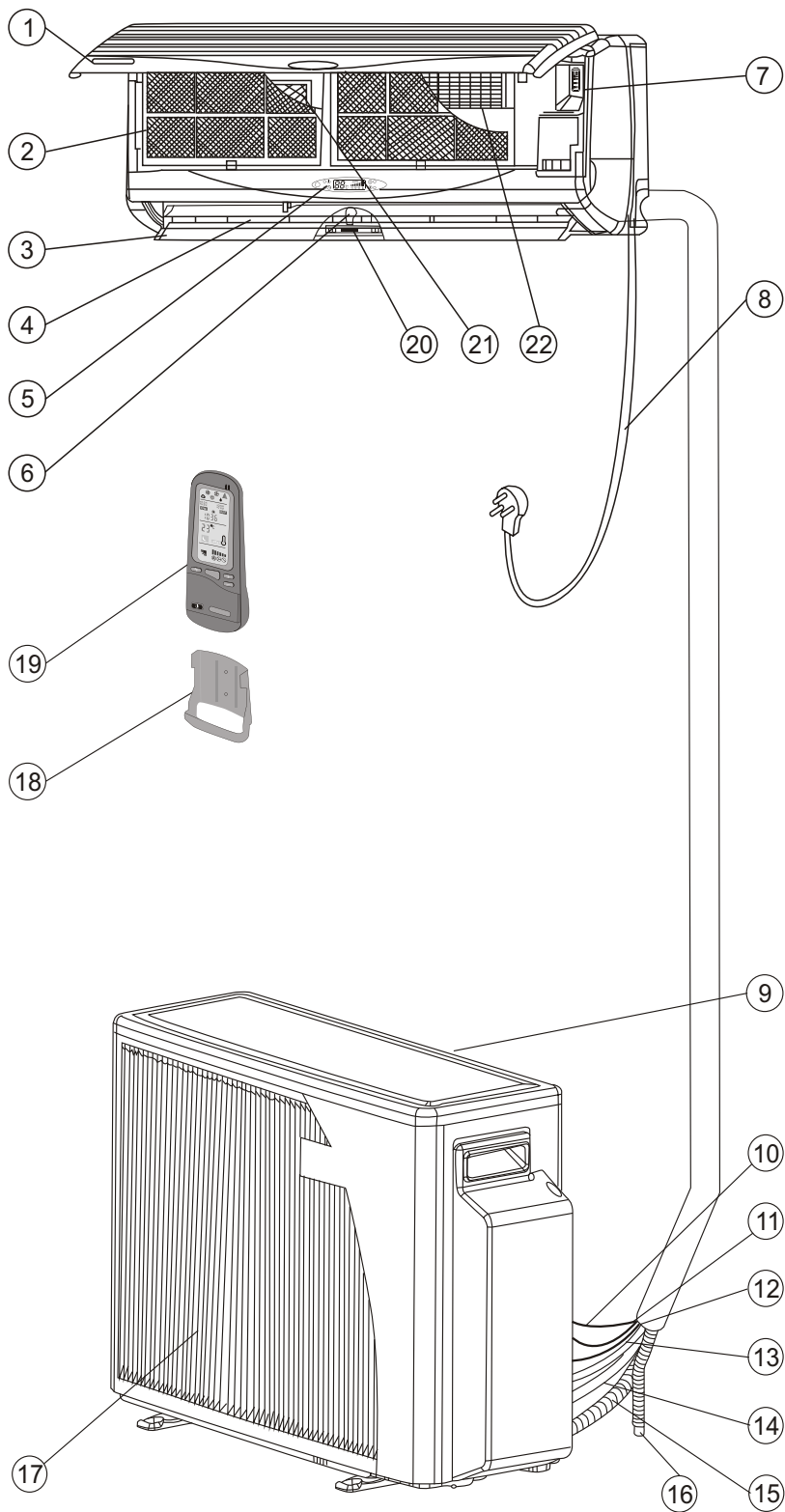
Heating: $-7^{\circ} \sim 21^{\circ}\text{C}$



IMPORTANT NOTICE:

- This air conditioner must be grounded to protect against electrical shock.
- Installation of the air conditioner must be performed by an experienced air conditioning installer, observing good refrigeration practice.
- Electrical connections and power cord replacement should only be made by authorized electricians and in accordance with electrical regulations and local codes.
- Failure to comply with the manufacturer's installation and operation instructions could affect the performance of the air conditioner and the validity of the warranty.

SYSTEM DESCRIPTION



1. Air intake grill
2. Air filter
3. Supply air flap
4. Air outlet
5. Unit's indicators
6. Horizontal Air flow Deflecting louvers
7. On unit's controls
8. Power cord
9. Outdoor unit air intake
10. Power cable
11. control wire
12. Air-fresh controls wire (optional)
13. Liquid line
14. Suction line
15. Air-fresh hose (optional)
16. Drain hose
17. Outdoor unit air outlet
18. Remote controls holder
19. Remote control
20. Ionizer
21. Air purifying filter
22. Electrostatic filter

MODES OF OPERATION, FUNCTIONS AND FEATURES



COOL

Cools, dehumidifies and filters the room air. Maintains desired room temperature.



HEATING

Heats and filters the room air. Maintains the desired room temperature.



AUTO

Automatically switches from COOLING to HEATING or from HEATING to COOLING, maintaining the desired temperature according to the room conditions.



DRY

Dehumidifies and softly cools the room In DRY Mode, the air conditioner operates at an increased dehumidifying power. This function is recommended to be used when temperature is rather low but the humidity is high.



FAN

Recirculates and filters the room air. Maintains constant air movement in the room.



AUTO FAN

The air conditioner automatically selects the FAN speed in accordance to the room temperature. At the start, the unit operates at high fan speed. As the room air approaches to the desired temperature, the fan switches automatically to a lower speed for quieter operation.

HOT KEEP

In HEATING and in AUTO FAN, the fan will be turned off when the compressor is not in operation and will not be restarted, unless the indoor coil reaches adequate temperature. This HOT KEEP feature prevents uncomfortable cold air drafts. Use of AUTO FAN is, therefore, recommended when the air conditioner is in HEATING mode.



I FEEL

Switches the temperature sensing point to the place where the remote control is located. (For general air conditioner, the temperature sensor is only located behind the air intake grille). This function is designed to provide a personalized by transmitting the temperature control command from the location Remote Control and the unit is done by infra-red signal. Therefore, in using next to you. The communication between the Remote Control and the unit is done by infra-red signal. Therefore, in using this function, the Remote Control should always be aimed, without obstructions at the air conditioner.







TIMER

Real time control and display, automatically turns the air conditioner ON and OFF according to the time of day setting, ensuring comfort conditions before returning home, without wasting electricity. It turns the air conditioner off automatically when sleeping.

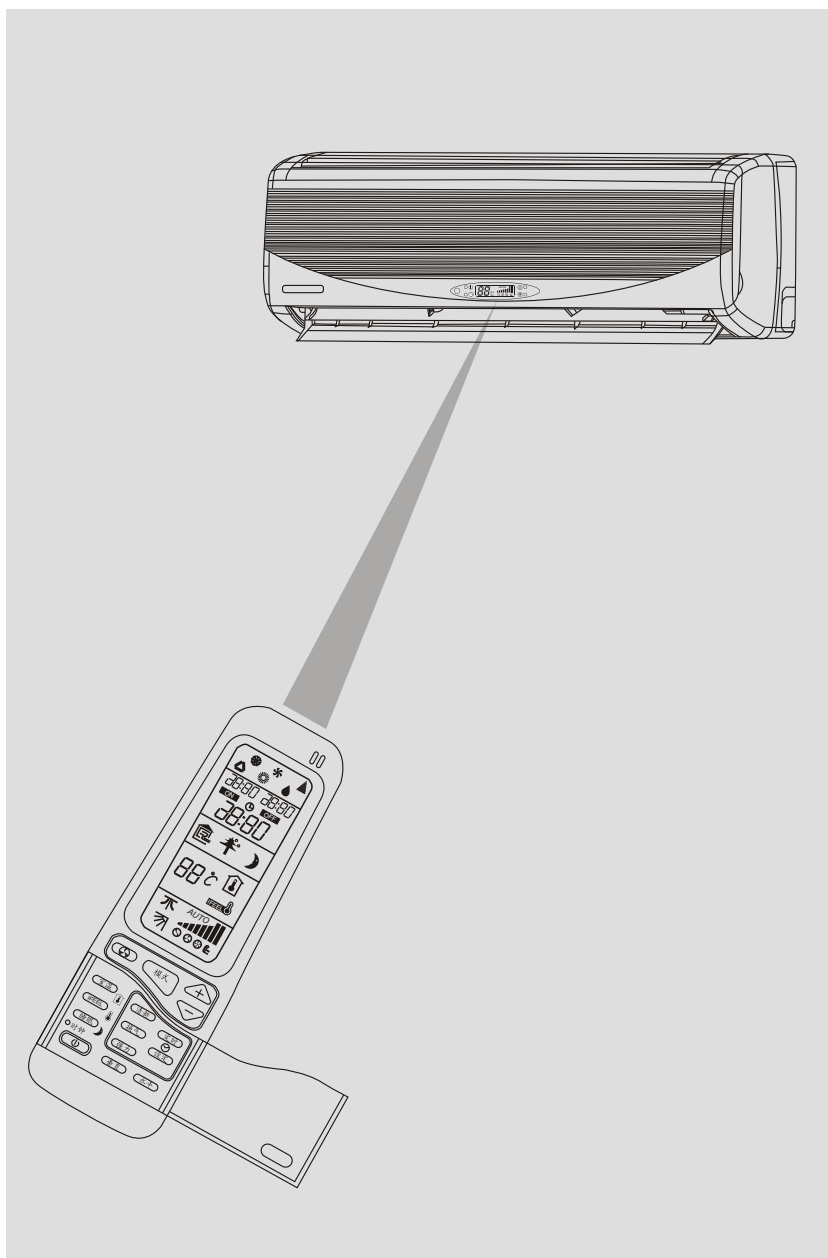


SLEEP

Designed to create comfortable sleeping conditions. When in COOLING mode, the temperature rises one degree centigrade after each consecutive hour, for to three hours, from the start of the mode. The temperature rise prevents the feeling of over-cooling while sleeping (when your body is at rest). In HEATING mode the reverse occurs; the air conditioner lowers its temperature one-degree every hour. When in SLEEP mode, the air conditioner will be automatically turned off after have operated for seven hours. The result is a more comfortable and invigorating sleep, which leaves you feeling fresh and energetic on the next morning.

| | | |
|---|-----------------------------|---|
| | AUTO FLAP | The air flap (louvers) is automatically positioned for the most suitable blow-out angle, when COOL, HEAT, DRY or FAN modes are selected. When the air conditioner is turned off, the flap will close automatically for an aesthetic appearance. |
|  | VERTICAL AIR SWING | Automatic swing of supply air in vertical direction. The flap moves automatically in upward and downward direction to spread the conditioned air evenly throughout the room. |
|  | HORIZONTAL AIR SWING | Automatic swing of Horizontal air flow in Horizontal direction. The flap move automatically in right and left direction to spread the conditioned air evenly throughout the room. |
|  | ROOM TEMPERATURE | Measures and displays room temperature. |
|  | BUZZER | A soft buzzer will sound from the indoor unit display to indicate that a command sent by the remote control has been accepted and stored in the unit's memory. This feature may be easily cancelled by the user from the display panel. |
| | ON UNIT OPERATION | The air conditioner can be turned ON for COOLING or HEATING or be turned OFF directly from the indoor unit display panel without the use of the remote control. |
| | 3-MIN DELAYED RUN | This compressor is protected by a three-minute delayed restart. |
| | LOCK | Freezes the last operation setting on the remote control. When LOCK is activated, the remote control will not be able to control the air-conditioner. |
| | MEMORY | The microprocessor retains the last data entry whether or not the unit is plugged in. Therefore, when the unit restarts after a power disruption or failure, it will resume operating in the same mode as before the power was disrupted. |
| | ELECTROSTATIC FILTER | They are capable of capturing small particles down to 0.1 microns, Such as atmospheric and house hold dust, coal dust, insecticide dust, mites, pollen, pet dander, tobacco smoke particles, cooking smoke and grease, mold fungi, bacteria, viruses and more. |
| | IONIZER | Ionizer make the air more fresh and more comfort. Slide switch (O) to the ON position to activate the ionizer. The blue light indicator (N) on the unit will light up indicating the ionizer in operation. To cancel the operation set slide switch to OFF position. Important Notice: When the air-conditioner is turned OFF or if the indoor fan stops operation the IONIZER stops automatically. |

USE OF WIRELESS REMOTE CONTROL



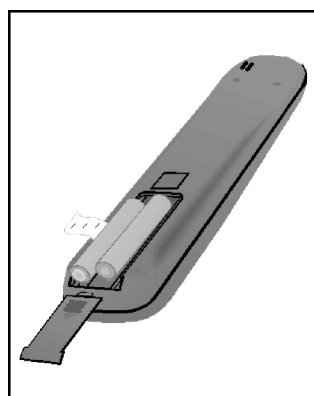
WIRELESS REMOTE CONTROL PUTS ALL FUNCTIONS AT YOUR FINGERTIPS.

- Aim at the infrared signal receiver on the room air conditioner when operating.
- The remote control signal can be received at a distance of up to about 8m.
- Be sure that there are no obstructions between the remote control and signal receiver.
- Do not drop or throw the remote control.
- Do not place the remote control in a location exposed to direct sunlight, or next to a heating unit, and/or other heat sources.
- Do not expose the signal receiver (D) on the display panel of the air conditioner to a strong light such as fluorescent lamp or sunlight.

PRIOR TO OPERATION

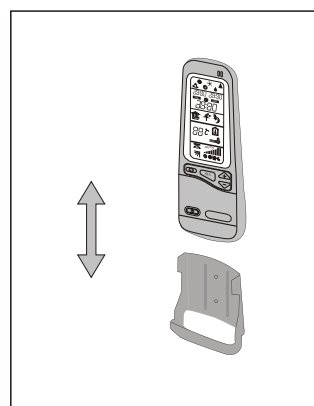
Prior to operating your air conditioner, make sure of the following procedures:

- Insert the plug of indoor unit to power supply properly.
- Indicator (C) on air conditioner lights on, indicating air conditioner is ready to receive signals from remote control.
- The red tab protecting the remote control batteries has been removed.
- For clock setting, see page 11.

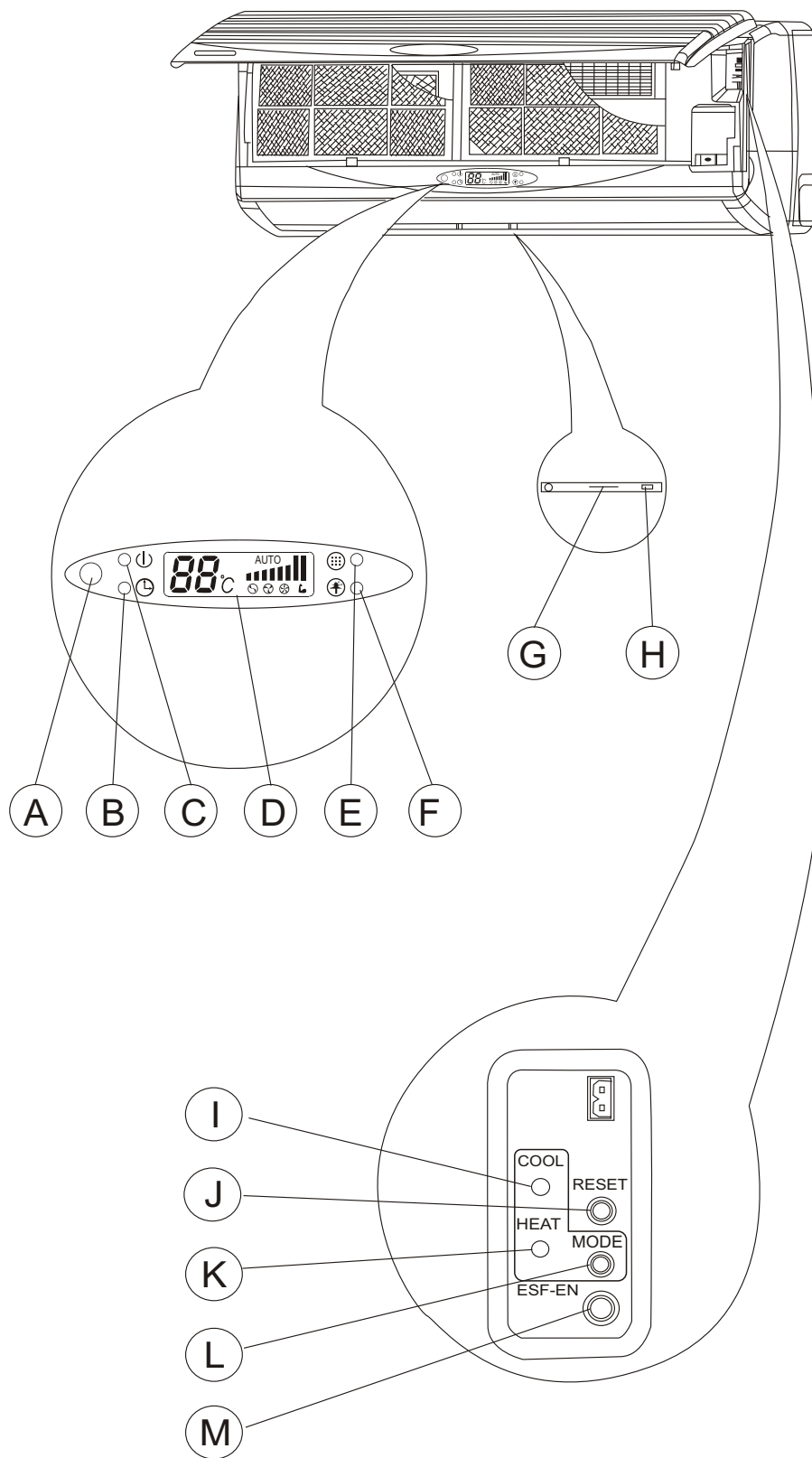


REMOTE CONTROL HOLDER

Use the remote control in the holder when unit is not in use. Remote control can be slipped in or out of its holder.

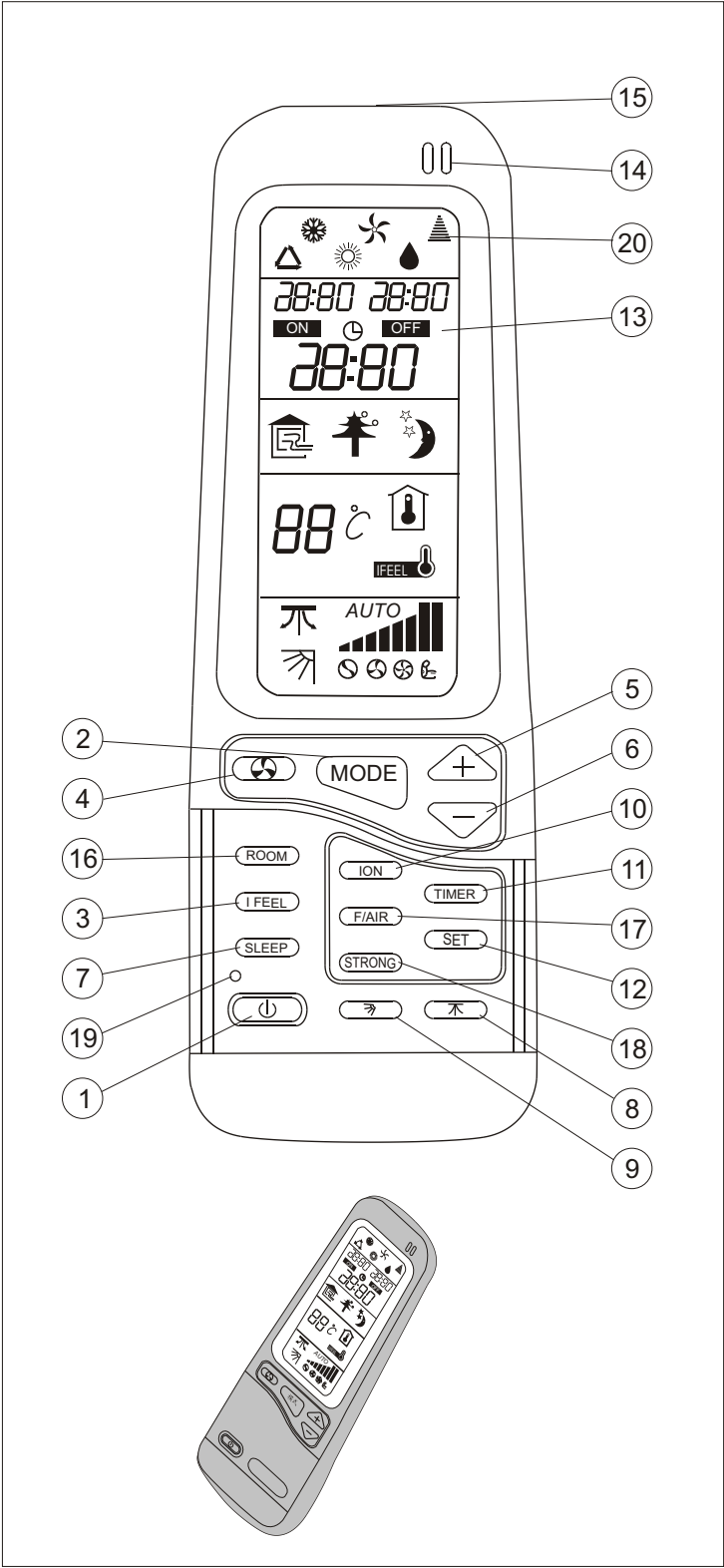


ON-UNIT INDICATORS AND CONTROLS



- A. Signal receiver
Receiver signals from the remote control.
- B. Timer indicator
Lights up during timer and sleep operation.
- C. Stand-by indicator
Lights up when the unit is connected to power.
- D. LCD operation display
- E. Filter indicator
Lights up when air filter requires cleaning.
- F. Fresh-air indicator
Lights up when the fresh-air operation.
- G. Ionizer indicator
Lights up during the ionizer is open.
- H. Ionizer on/off
Used to switch the ionizer.
- I. Cooling indicator
Lights up only when mode (L) is pressed.
- J. Reset button
Press to turn off the filter indicator or cancel the buzzer announcer.
- K. Heating indicator
Lights up when mode (L) is pressed.
- L. Unit mode button
Used to switch the unit for cooling or heating without the remote control.
- M. Electrostatic filter safety button
Turn off the Electrostatic filter when you open the grille.

REMOTE CONTROL



Note: Open the cover to reach the control buttons.

- 1 START/STOP button
 - 2 Operation mode selection button
 - COOLING
 - HEATING
 - AUTO COOL/HEAT
 - DRY
 - FAN
 - 3 I FEEL temperature sensing mode button
 - 4 FAN SPEED and AUTO FAN button
 - 5 Room temperature Up button
 - 6 Room temperature DOWN button
 - 7 SLEEP button
 - 8 Airflow direction AUTO-CONTROL button
 - 9 HORIZONTAL Airflow direction AUTO-CONTROL button
 - 10 IONIZER button
 - 11 TIMER button
 - 12 TIMER SET button
 - 13 LCD operation display
 - 14 I FEEL sensor
 - 15 Infrared signal transmitter
 - 16 ROOM temperature display button
 - 17 FRESH AIR button
 - 18 STRONG button
 - 19 CLOCK button
- Transmission sign

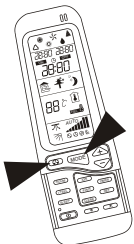
OPERATION PROCEDURE



TURNING ON THE AIR CONDITIONER

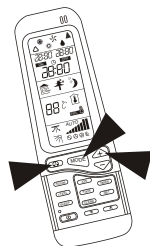
Press START/STOP button (1) to turn on the air conditioner on. Indicator (A) on the air conditioner will light up, indicating that the unit is in operation. Note that the LCD operation display (13) will always show the last mode of operation and previous function used.

Follow the instructions if you choose to change the control settings; otherwise, the air conditioner will start and operate in the same mode and functions prior to being turned off.



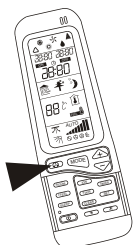
VENTILATING OPERATION

Select the ventilating mode by pressing MODE button (2). Switch to the desired fan speed by pressing FAN speed button (4).



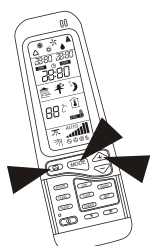
COOLING OPERATION

Select the COOLING mode by pressing MODE button (2). Switch to the desired FAN SPEED or to AUTO FAN by pressing button (4). Select suitable temperature setting.



COOLING OPERATION WITH AUTO FAN MODE

This operation starts with the highest air flow in order to quickly lower the room temperature. It will then automatically switch to the low air flow to quietly maintain the selected temperature.



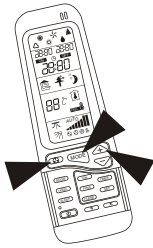
HEATING OPERATION

Select the HEATING mode by pressing MODE button (2). Switch to the desired FAN SPEED or to AUTO FAN by pressing FAN button (4). Select suitable temperature setting.



HEATING OPERATION WITH AUTO FAN MODE

This operation starts with the highest air flow in order to quickly raise the room temperature. It will then automatically switch to a lower air flow to quietly maintain the selected temperature. HEATING with AUTO FAN will automatically provide the user with the HOT KEEP function. The fan will be turned off when the indoor coil temperature is not sufficiently hot to prevent uncomfortable cold air drafts.



AUTO COOLING/HEATING OPERATION

Select the AUTO mode by pressing MODE button (2). Switch to the desired FAN SPEED or to AUTO FAN by pressing button (4). Select suitable temperature setting. The air flap will automatically move to either horizontal air delivery for cooling or to vertical air delivery for heating. At start, the air conditioner will select its mode of operation according to the room temperature and the temperature setting.



DRY OPERATION

Select the DRY mode by pressing MODE button (2). Select the suitable temperature setting. While in DRY mode, the air conditioner will operate at low fan speed, regardless of the fan setting on the LCD operation display. Fan might terminate operation from time to time to prevent from over cooling.



SELECTING THE TEMPERATURE

Press TEMP button (5) or (6) to change the temperature setting in the LCD operation display (13). The temperature setting is shown in degrees centigrade. A higher number indicates a higher room temperature. A lower number indicates a lower room temperature.



I FEEL FUNCTION

Press I FEEL button (3) to activate the I FEEL function. Thermometer sign will appear on the LCD operation display (13). Select suitable temperature setting. Make sure that the remote control unit is aimed at the air conditioner, with the I FEEL sensor (14) in front. Prevent the I FEEL sensor from being affected by heat sources such as lamps, heaters, direct sun, etc. or from being directly affected by the air conditioner air flow. These may cause the sensor to transmit the wrong temperature data, thereby disturbing the performance of the I FEEL function.



SLEEP FUNCTION

Press the SLEEP button (7) to select the SLEEP function. When the sleep function is activated the air conditioner will be automatically turned OFF after seven hours. If at the same time TIMER is activated, as well, the air conditioner will be turned ON and OFF according to the TIMER setting.

To cancel the SLEEP function press on one of the following:

- START/STOP button (1)
- SLEEP button (7)



TIMER OPERATION

Press TIMER select button (11) to activate the timed operation mode. Each time you press TIMER button (11), one of the following four operation modes will appear on the LCD display. The operation modes are sequenced in turn in the direction of arrow. During Timer operation, the indicator on the air conditioner will light up.

Note: After the power is off (when the air-conditioner is in Timer mode), the air conditioner will automatically switch to stand-by mode and the Timer operation will also be cancelled. To resume the Timer operation, please follow the above instructions.

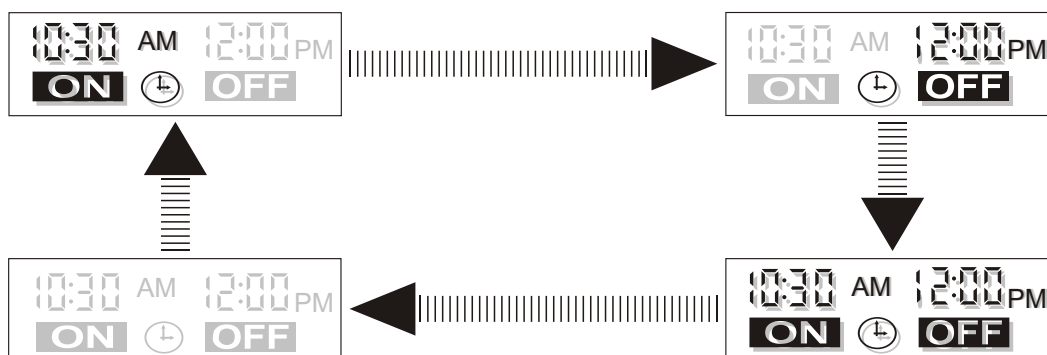
TIMER OPERATING MODES

I. TIMER ON

This mode enables you to set a start time. Press Timer button (11) till ON sign blinks. Star time can be adjusted using up and down buttons (5) and (6) respectively. Press Set button (12) to activate the timer.
Example: Operation is restored at 10:30 a.m.

II. TIMER OFF

This mode enables you to set the stop time of operation. Press the Timer button (11) till the OFF sign blinks. Time can be adjusted using up and down buttons (5) and (6) respectively. Press Set button (12) to activate the timer.
Example: Operation stops at 12:00 p.m. (24:00 hours).



IV. CLEAR

Use this mode to cancel timer operation. Press TIMER button (11), timer operation will terminate and the LCD display will be cleared for each timer mode.

Note: If timer button (11) is selected and neither time adjust, Set, or Clear buttons are not pressed within 15 seconds; the timer operation will be cancelled and the last setup will be displayed

III. TIMER ON/OFF

This mode enables you to set the start and stop time of operation. Press Timer button (11) till the OFF sign blinks. By press again the ON sign blinks. Time can be adjusted by using the up and down buttons (5) and (6) respectively. Press Set button (12) to activate the timer.

Example: Operation is restored at 10:30 a.m. Operation stops at 12:00 p.m. (24:00 hours).

ROOM TEMPERATURE DISPLAY

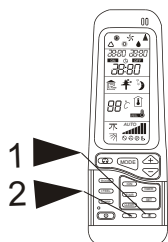
By pressing on ROOM temperature, button (16), the measured room temperature and the room temperature sign will be displayed.

To cancel the ROOM Temperature display press on one of the following:

- Press again on ROOM temperature button (16).
- Change of MODE button (2)

Note: Room temperature range is between 0°C and 36°C in 1°C increments. Display should show "HI" or "LOW" to represent temperature that is above 36°C or below 2°C.





AIR DIRECTION OPERATION

1.Air Direction Positioning

Press button (8) to position the air flap to any desired angle.

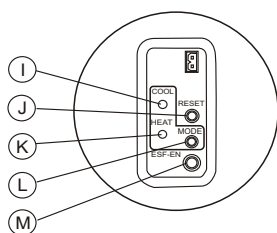
2.Automatic Vertial Air Swing

Press button (9) to activate the auto air swing.Press button (8) to deactivate this function.



TURNING OFF THE AIR CONDITIONER

Press START/STOP button (1) to turn off the air conditioner.Indicator (A) on the air conditioner will be turned off.Indicator (G) will stay lit,indicating that the air conditioner is in STAND-BY mode and ready to accept any new command from the remote control The remote control LCD will display the clock time.The last operating set-up will be kept for the next operation.

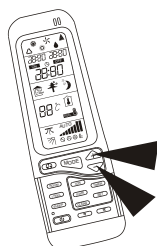


ON-UNIT OPERATION

If the air-conditioner cannot be operated by the Remote Control unit,it can be turned on for cooling or heating,or completely turned off,by pressing MODE button (L) on the air-conditioner.The MODE button will change the operating status of the unit between-COOLING-HEATING-STAND-BY positions, every time it is pressed.Indicators (I) (K) or (G) will light up respectively,to indicate in which mode the air-conditioner operates.

On units for Cooling only,do not set MODE switch on HEAT position.

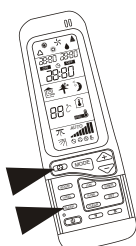
CURRENT CLOCK TIME SET



Clock setting is performed when batteries are inserted. The remote control displays the setting and the clock display will blink " 0:00 " or " 12:00 " AM(AM sign will blink, too) till a new time is set.

For clock setting, use buttons (11) and (12) for setting the hours and minutes, respectively, and then press timer SET button (17). The clock setting can be also performed by pressing time Set button (17) for 5 seconds.

The clock display will blink, for new setting follow the steps described above.



LOCK FUNCTION

By pressing LOCK button (19),the remote control will lock the last operation program.All the function buttons will be inoperative,including START/STOP button.By pressing LOCK button (19) again the remote control will be released from its locked position.When lock mode is functioning,the transmission sign (20) will be on.



FRESH AIR FNCTION (optional)

PRESS THE FRESH AIR button (17) to activate the Fresh air function and press the button again to cancel this function.



IONIZER AND ELECTROSTATIC FILTER

Press the IONIZER button (10) to activate the Ionizer and Electrostatic Filter function , if the Ionizer switch at ON position, the blue indicator on the Ionizer lights up. Press the button again,you will cancel the function.



STRONG FUNCTION

Press the STRONG button (18) to activate a strong function, the fan would run at the highest speed. And the fan speed could not change. Press the button again you will cancel this function.

PROTECTION MODES

Your air-conditioner includes several auto protection modes which enables you to use it virtually at any time and in any season regardless of the outdoor temperature. Some of the protection modes are listed below:

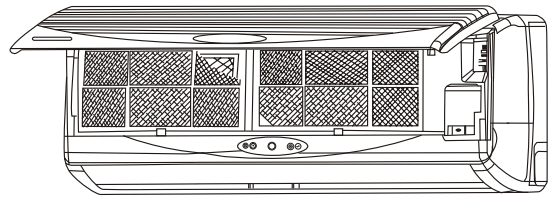
| Mode | Operation conditions | Protection from | Controlled remedy |
|-----------------|------------------------------------|---------------------------|--|
| Cooling and Dry | Low outdoor temperature | Indoor coil freezes up | Stops compressor when approaching freezing conditions. Resumes operation automatically. Operating indicator(A) blinks. |
| | High outdoor temperature | Outdoor coil overheating | Stop compressor when approaching over heating conditions. Resumes operation automatically. Operating indicator (A) blinks. |
| Heating | Low outdoor temperature | Outdoor coil ice build up | Reverses operation from heating to cooling for short periods to de-ice outdoorcoil. Operating indicator (A) blinks. |
| | High Indoor or outdoor temperature | Indoor coil overheating | Stops compressor when approaching high indoor coil temperature. Resumes operation automatically. Operating indicator (A) blinks. |

CARE AND MAINTENANCE

Before performing any maintenance procedure, make sure to disconnect the air conditioner from the power.

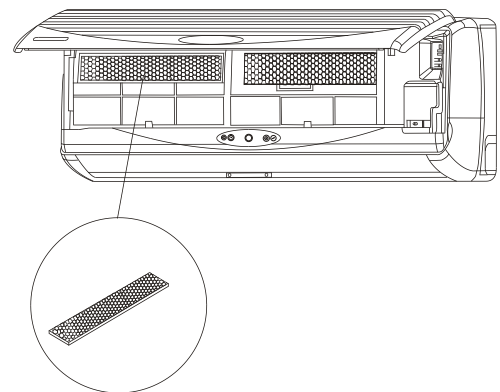
CLEANING THE AIR FILTER

- Your air conditioner is provided with a filter cleaning indicator. When the indicator (E)lights up, the filters should be removed for cleaning
 - To remove the air filters, lift up the panel. push the air filters up slightly to unlock them. pull out the filters, Clean the filter by washing in warm soapy water and dry thoroughly. align and fit the filters in place. Close the panel by pushing it in the center to lock it in place.
 - Reset button (J) to turn off indicator (E).
-



CLEANING THE ELECTROSTATIC FILTER

- The electrostatic filter should be removed from the unit and cleaning once three month. The procedure is shown as following;
 - 1. Open the front panel
 - 2. Push the hook on the filter and pull out the electrostatic filter(Fig ①)
 - 3. Wash the filter with the warm soapy water and dry thoroughly
 - 4. Push the electrostatic filter into the right position
 - 5. Close the front panel
- Note: the above procedure is used for cleaning the electrostatic filter.
-



PURIFICATION FILTER REPLACEMENT

- The air purifying filter should be removed form the unit and replaced once a year, show as following:
- 1. Pulling out the filter(Fig②)
- 2. Replacing the filter in its place.

DO NOT OPERATE THE UNIT WITHOUT FILTERS!

CLEANING THE AIR CONDITIONER

- Wipe the unit with a soft dry cloth or clean it using a vacuum cleaner
 - Do not use hot water or volatile materials which could damage The surface of the air conditioner.
-

AT THE BEGINNING OF THE SEASON

- Make sure there are no obstacles blocking the flow of inlet or outlet air, in both indoor and outdoor units.
 - Make sure the power is properly connected.
-

PROTECT THE ELECTRONIC SYSTEM

- Indoor unit and remote control must be at least 1 meter away from a TV, radio or any other home electronic appliance.
 - Protect the inner unit from direct sun or lighting.
-

REMOTE CONTROL BATTERY CHANGE

- Remove the batteries from the remove control as show.
 - Use two 1.5 volt size AAA batteries.
-

OPERATING TIPS

- Set a suitable room temperature; excessively low room temperature is not good for your health and wastes electricity. Avoid frequent setting of the temperature.
- During cooling, avoid direct sun. Keep curtains and blinds closed. Close doors and windows to keep the cool air in the room.
- Avoid generating heat or using of heating appliances while the air conditioner in cooling mode.
- Make sure that the air flap is positioned properly: horizontal flow in cooling and downward vertical flow for heating.
- Keep the room temperature uniform by adjusting the Left/Right vertical air blades.
- Position the air flap and the left/right air blades in such a manner as to prevent your body from being exposed directly to air drafts.
- During prolonged operation, ventilate the room occasionally by opening a window from time to time.
- In a power failure, the microprocessor memory is retained. When restarted, operation will be resumed in the last mode of operation. However, if the timer was used, the unit will be turned off by the timer only if the remote control is aimed at the unit. Otherwise the power failure will cause the timer data to be erased from the microprocessor memory.
- After turning on, allow more than 3 minutes for cooling, heating or dry operation to start.
- When Dry mode is used, make sure that the room temperature is between 20° to 27°C. When used out of this range, the unit may protect itself and become inoperative.
- When COOL or DRY modes are used, make sure that the room's relative humidity is below 78%. If the unit is used for a prolonged periods of time in high humidity, moisture may form on the air outlet and drip down.
- Remote control signals may not be received if the indoor unit controls cover is exposed to direct sunlight or strong light. In such a case, block the sunlight or dim the lighting.
- The remote control is operative in a range of 8 meters. If you are out of range, the remote control may have difficulties in transmitting signals.

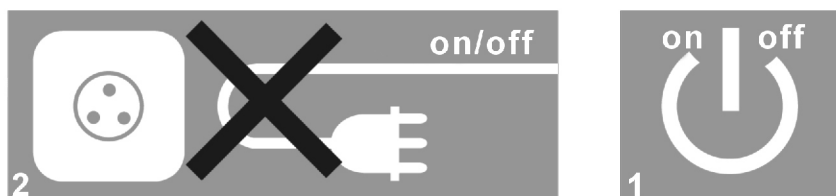
PRECAUTIONS

- Use the proper electrical fuse..

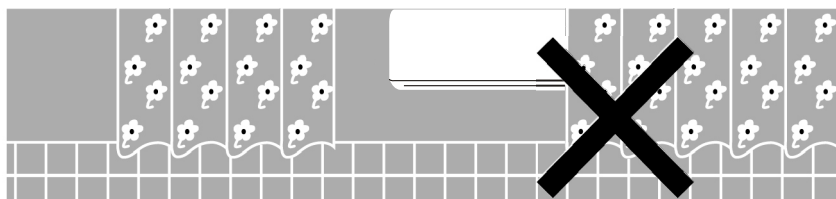
Do not pull out the power cord unless the unit is turned off.



- Do not turn on or off air conditioner by inserting the power cord.



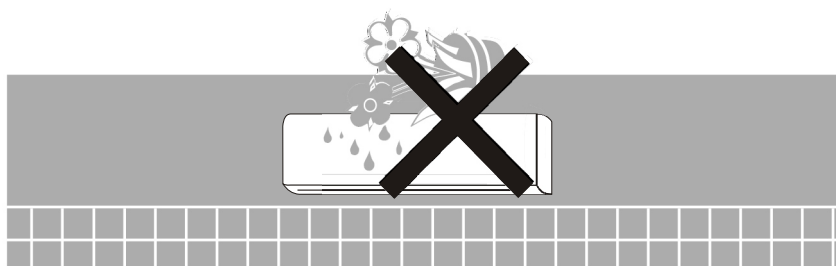
- Do not obstruct or block the air inlet or air outlet of the air conditioner.



- Do not insert any objects in the air outlet of the indoor or outdoor units.



- Do not splash water on air conditioner.



IF NOISE IS HEARD

There may be hissing sound during operation or just after shut down. This is caused by the refrigerant that is circulating inside the unit

There may be a cracking sound at starting and stopping the unit's operation. This is caused by heat expansion or contraction of plastics.

BEFORE CALLING FOR SERVICE

Before calling for service, please check the following common malfunctions and correct it as needed.

| Problem | Cause | Remedy |
|--|--|--|
| • Unit does not operate. Stand-by indicator does not light up. | Unit not connected to power | Plug in the power cord. |
| | Power failure | Check main fuse. |
| • Unit does not operate. Standby indicator lights. | Remote control malfunctions | Check remote control batteries. Try to operate from a closer distance. Start from on-unit controls. Perform reset operation by pressing buttons: (11) (12) (17) (18) for 5 sec. Unlock the remote control. |
| | The remote control is locked. | |
| • Unit does not respond properly to remote control command. | IR signal does not reach unit. | Check for obstruction between unit and remote control, Clear if needed. |
| | Distance between remote control and unit too large or aimed at from improper angle. IR receiver on-unit exposed to strong light source. | Get closer to unit. Dim lights, fluorescents especially |
| • Air does not blow out from indoor unit. | De-icing protection mode is activated. Unit is in AUTO FAN mode. Over cooling in DRY. | Normal operation in HEATING mode. Normal operation in DRY mode. |
| • COOLING, DRY or HEATING does not start immediately. | 3-min. Compressor delayed start | Normal operation for these modes. |
| • Unit functions but does not perform sufficiently. | Improper temperature setting. | Reset temperature. |
| | Unit capacity insufficient for load or room size. | Consult your dealer. |

INSTALLATION INSTRUCTIONS

ENGLISH






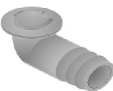




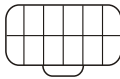
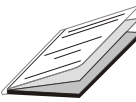
1. ACCESSORIES SUPPLIED WITH AIR CONDITIONER
2. LOCATION OF INDOOR AND OUTDOOR UNITS
3. ELECTRICAL REQUIREMENTS
4. INSTALLATION OF THE INDOOR UNIT
5. CONDENSATE HOSE CONNECTION
6. ELECTRICAL CONNECTIONS BETWEEN INDOOR AND OUTDOOR UNITS
7. REFRIGERANT TUBING
8. INSTALL THE AIR-FRESH HOSE
9. FINAL TASKS

The appliance shall not be installed in the laundry.

INSTALLATION INSTRUCTIONS

FOR SPLIT WALL MOUNTED AIR CONDITIONER

1 ACCESSORIES SUPPLIED WITH THE AIR CONDITIONER

| Shape | Name | Qty | Used for |
|---|---|-----|---|
|  | Mounting Plate | 1 | Wall mounting of the indoor unit |
|  | Remote control With batteries | 1 | Operation of Unit |
|  | Remote control bracket | 1 | Wall mounting of the remote control |
|  | Screws washers dowels | 4 | Wall mounting of indoor unit |
|  | Screws, Dowels | 1 | Wall mounting of remote control bracket |
|  | Outdoor unit drain connector | 1 | Outdoor unit water drain |
|  | Mounting pads | 4 | Padding of outdoor unit bottom support |
|  | Cable ties | 4 | Securing wires in the indoor and outdoor unit |
|  | Cable terminals | 1 | Securing of grounding wire on the indoor and outdoor unit |
|  | Twin wire cable (for heat pump units) | 1 | Transmitting signals |
|  | Air purifying filter (optional) | 2 | Cleaning the air |
|  | Operation and installation instructions | 2 | Users and installers reference |

2 LOCATION OF INDOOR AND OUTDOOR UNITS

Select the location considering the following:

INDOOR UNIT

1. Choose a location which will provide good air circulation. ensure that no objects or furnishings prevent air circulation.
2. Do not install the unit near a heat source or where it will be exposed to direct sunlight.
3. The location must allow convenient electrical drainage and tubing connections.
4. Installation site should provide an easy passage to outdoors.
5. The unit must be mounted on a strong wall that will withstand the generated vibrations.
6. Install the mounting plate as shown.

OUTDOOR UNIT

1. The location must allow easy servicing and provide good air circulation.
2. The unit may be suspended from a wall by a bracket (Optional) or located in a free standing position on the floor (preferably slightly elevated).
3. if the unit is suspended, ensure that the bracket is firmly connected and the wall is strong enough to withstand vibrations.
4. Unit location should not disturb neighbors with noise or exhaust air stream.
5. Place the mounting pads under the unit legs.
6. Install the outdoor unit as shown. Refer to the technical and service manual for allowed distances.
7. When the unit is installed on a wall, install the drain connector hose and drain plug as shown.

Fig.1
1. Bottom of outdoor unit
2. Drain connector

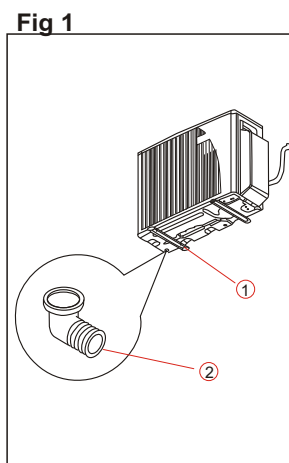


Fig.2
Drain installation Example

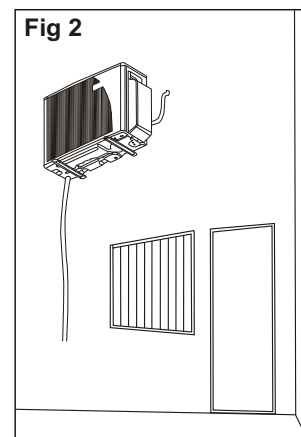


Fig.3
Length of electric cable to mains

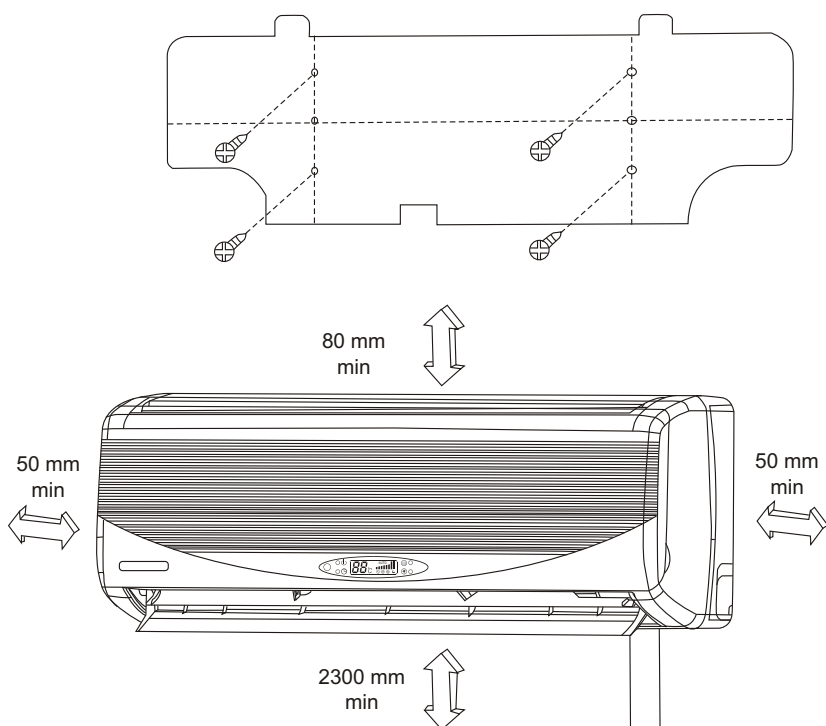
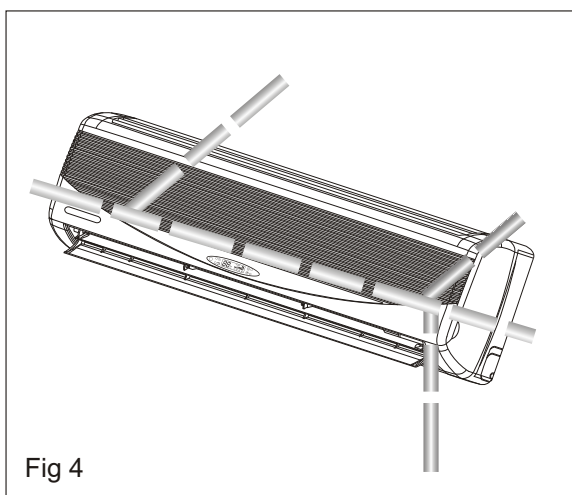
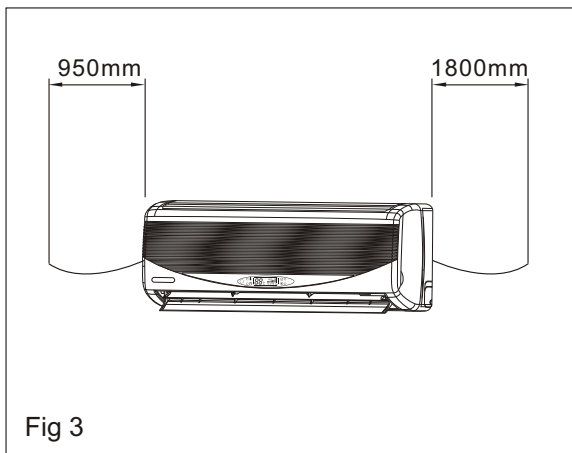


Fig.5
1. To attach
2. To remove

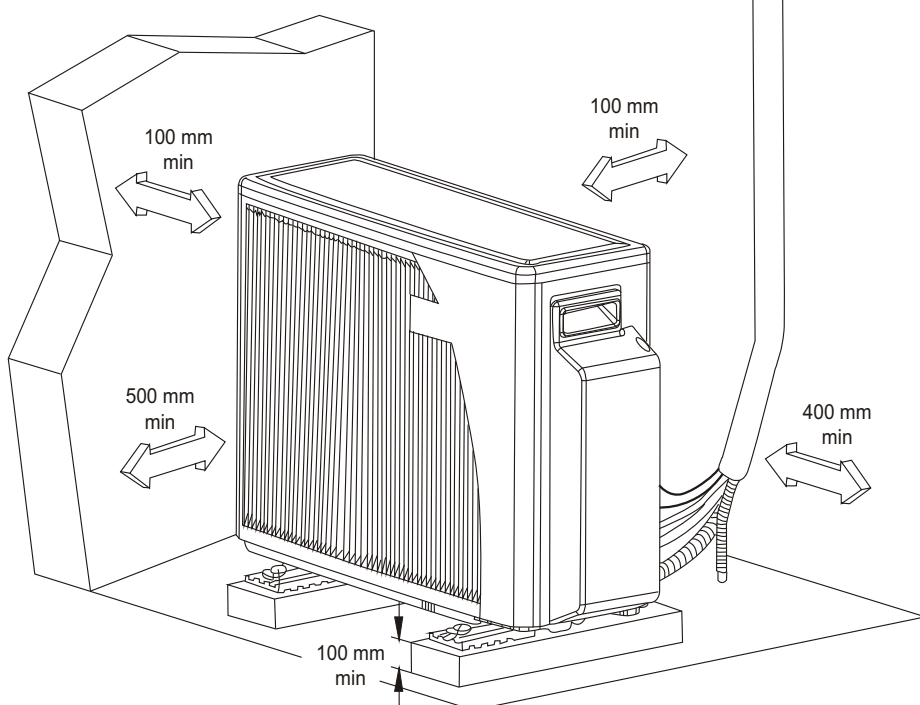
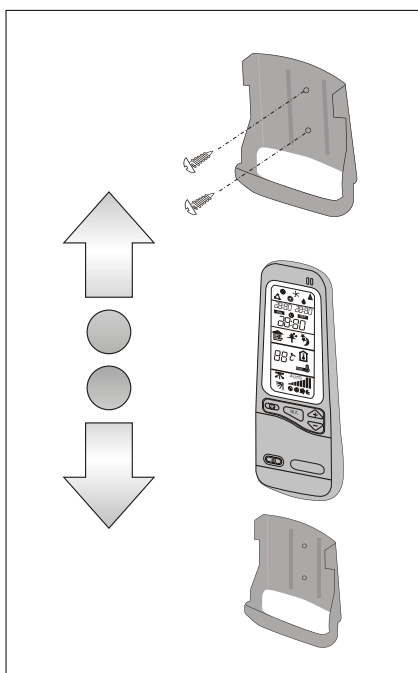


Fig.6
1. Mounting pads(x4)

3

Electrical wiring and connections should be made by qualified electricians and in accordance with local electrical codes and regulations. The air conditioner units must be grounded.

The air conditioner unit must be connected to an adequate power outlet from a separate branch circuit protected by a time delay circuit breaker, as specified on unit's nameplate.

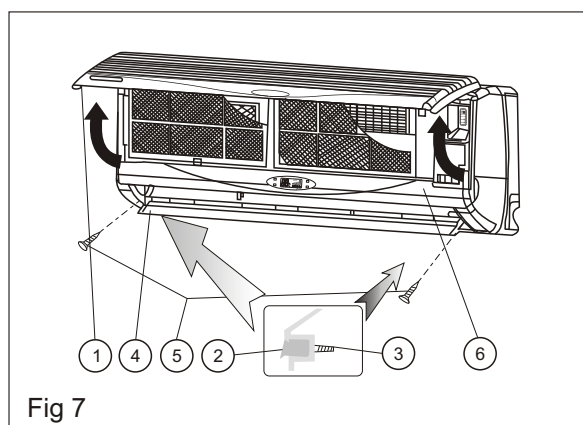
Voltage should not vary beyond $\pm 10\%$ of the rated voltage.

4

REMOVAL AND INSTALLATION OF THE CONNECTING WIRES

1. Open the grille..
2. Open the terminal cover.
3. After installation of the indoor unit, reinstall the terminal cover.

Fig.7
1. Lift grille
2.Screw

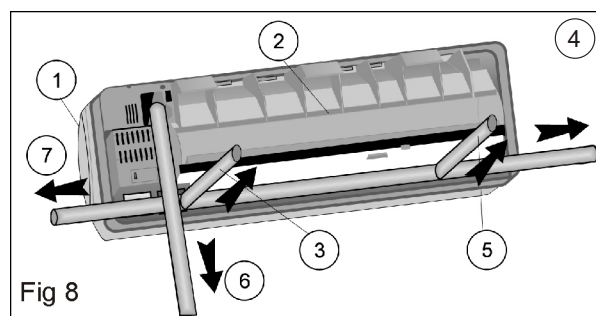


REFRIGERATION TUBE ROUTING

1. There are five possible routes for installing the refrigeration tube as shown.
2. For route (6), cut the bottom notch in the rear.
3. For routes (5) or (7), cut the side notches in the rear and in the front panel.

Fig.8

| | |
|----------------|------------------------|
| 1. Front | 4. Lefthand outlet |
| 2. Rear | 5. Lefthand rar outlet |
| 3. Rear outlet | 6. Bottom outlet |
| | 7. Righthand outlet |



INSTALLATION OF THE MOUNTING PLATE

1. Figure 9 shows the location of the mounting plate relative to the unit size. Refer to one of the drawings, according to your unit length (marked in square).
2. Locate the mounting plate as shown on the wall in a horizontal position, using a spirit level.
3. Mark the position of the four mounting holes on the wall and drill four holes to accommodate the dowels.
4. Mount the mounting plate on to the wall by the four screws. Ensure screws are tightened properly.

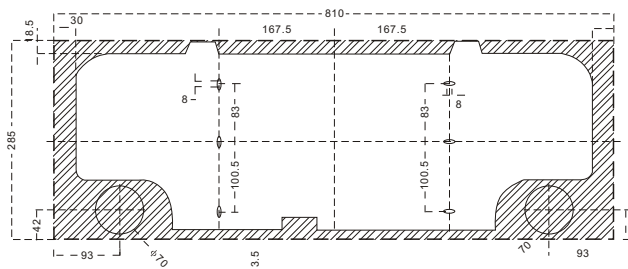


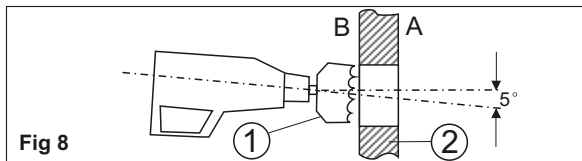
Fig 9

PENETRATION OF WALL FOR TUBING

1. Mark the location of the hole on either side of the mounting plate as shown. and drill it at a 5° downward angle, as shown.
2. The hole is drilled at an angle, to prevent condensed or rain water from penetrating back into the room
3. Trim the hole in the wall with a $\varnothing 70$ mm commercial plastic tube.

Fig. 8

A.OUTDOOR SIDE 1.Drill $\varnothing 70$ mm
B.INDOOR SIDE 2.Wall



SUSPENDING AND RELEASING THE UNIT FROM THE MOUNTING PLATE

1. Make sure that the refrigerant tubes, electric cables and condensate water hose are well insulated with closed cell rubber based insulating tubes(6 mm thickness), are wrapped together with UV stabilized non-adhesive plastic tape, and are passed through the hole in the wall.
2. Hang the indoor unit on the two hooks that are located near the top edge of the mounting plate.
3. Press the lower part of the indoor unit against the mounting plate until the catches snap into the slots and lock the indoor unit to the mounting plate.
4. Check the installation by pulling the unit towards you.
5. To release the unit from the mounting plate, lift up the unit and then pull the unit towards you, to ensure that the hooks are locked.

Fig.9

1.Indoor unit 3.Top hooks
2.Snap catches 4.Botton hooks

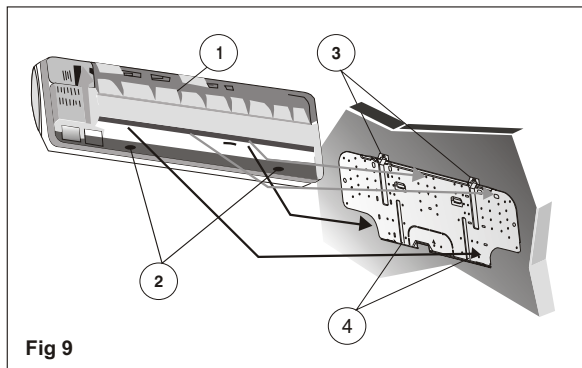
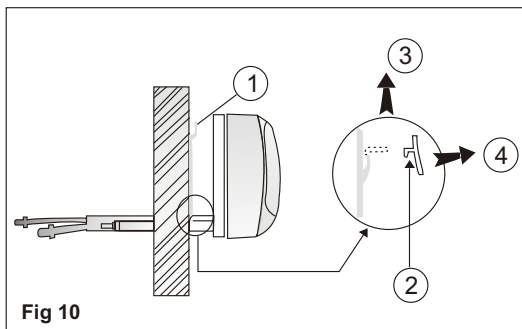


Fig.10

1.Mounting plate 3.Lift up
2.Lower hook 4.Pull



5

CONDENSATE HOSE CONNECTION

1. Attach the condensate drain hose to the corrugated hose in the rear groove of the indoor unit.
2. Wrap the drain hose together with the refrigerant tubes and electrical cables.
3. Ensure that the condensate drain hose is installed at all points in a downward slope manner.

Fig.11

1.Drain hose
2.Clamp
3.Downward slope

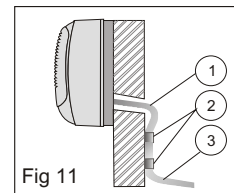


Fig.12

1.Trap
2.U-bend
3.End immersed in water

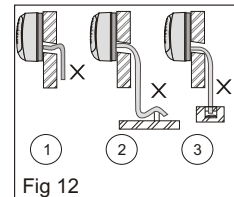


Fig.13

1.Electric cable
2.Refrigerant tubing
3.Condensate drain hose

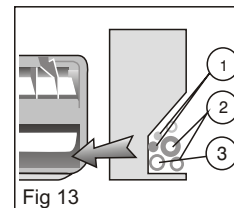
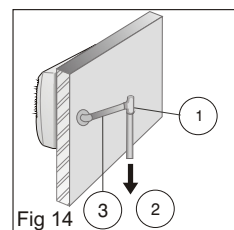


Fig.14

1.Vent
2.Downward drain
3.Water drain hose



6. When the installation location requires long horizontal sections, a vent must be provided at the top of the hose to prevent overflow of the unit drain pan.

7. Upon completing the installation, test the water drain by pouring at least two liters of water into the unit drainpan. Check that the water drains off.

ELECTRICAL CONNECTIONS BETWEEN INDOOR AND OUTDOOR UNITS

1. To connect the indoor unit with the outdoor unit use the following electrical cables, protected for outdoor use:

Cooling and heating model:

Multiple wire cable (220 - 240V, 50Hz)

5 wires x 1.5 mm²

2 wires x 0.5 mm² - for low voltage (supplied with the unit).

Cooling only models:

Multiple wire cable (220 - 240V, 50Hz)

4 wires x 1.5 mm²

2. Prepare the multiple wire (7) cable ends for connection as shown in Fig 18.
3. Connect the cable ends to the terminals of the indoor and outdoor units, as shown in Fig 20.
4. Shape a loop and connect the yellow/green ground wire (2) to ground terminal screw of the indoor unit, as shown in Fig 20.
NOTE: For multi split and cooling only units skip steps 5, 6, 7 and 9.
5. Prepare the twin wire cable end for connection as shown in Fig 19.
6. Disconnect the resistor (5) from the indoor unit twin wire cable (3) and connect the twin wire cable (6) connector instead.
7. Connect the other end of the twin wire cable (6) to the outdoor unit twin wire terminal (9).
8. Secure the multiple wire power cable with the cable clamps.
9. Fasten the twin wire cable to the power cable with cable ties.

Fig. 17

1. Terminal 2. Cover 3. Cable tie

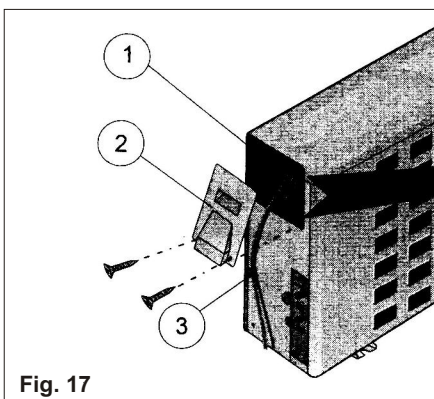


Fig. 17

NOTES:

1. The wire color code can be selected by the installer
2. Wires leading to outdoor unit twin wire terminal (9), must be in a separate twin wire cable, otherwise the electronic controls will be subjected to operational malfunctions.
3. For cooling only model, terminal number 5 should not be connected.

MULTIPLE WIRE POWER CABLE

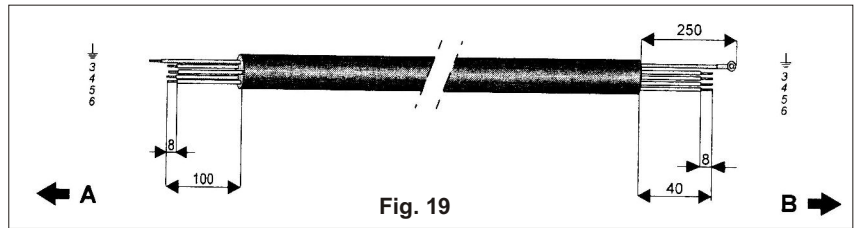


Fig. 19

Fig. 18 A. OUTDOOR B. INDOOR

TWIN WIRE LOW VOLTAGE CABLE

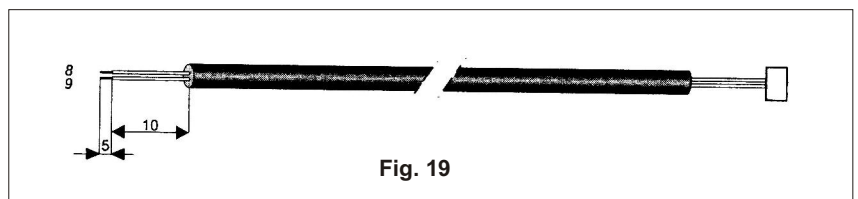


Fig. 19

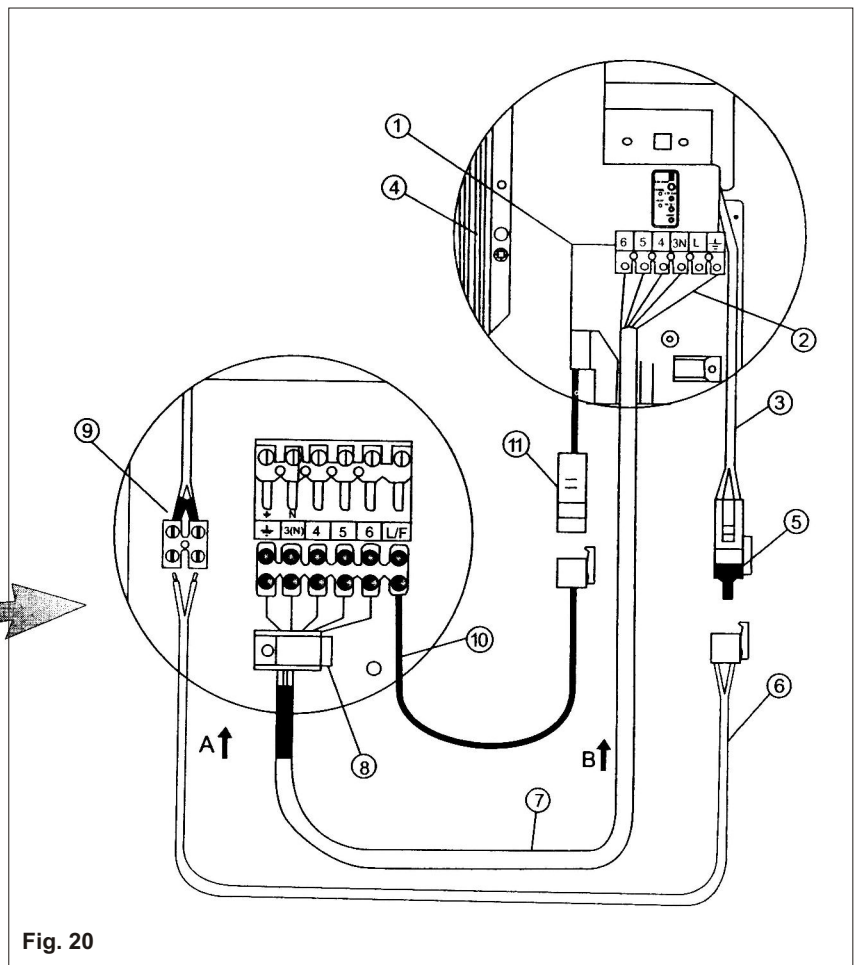


Fig. 20

Fig.20

1. Indoor unit terminal
2. Ground wire
3. Indoor twin wire
4. Indoor coil

5. Resistor
6. Twin wire cable
7. Multi wire cable
8. Cable clamp

9. Outdoor twin wire terminal
10. Fresh air connection wire (optional)
11. Indoor fresh air wire (optional)
A. OUTDOOR B. INDOOR

REFRIGERANT TUBING

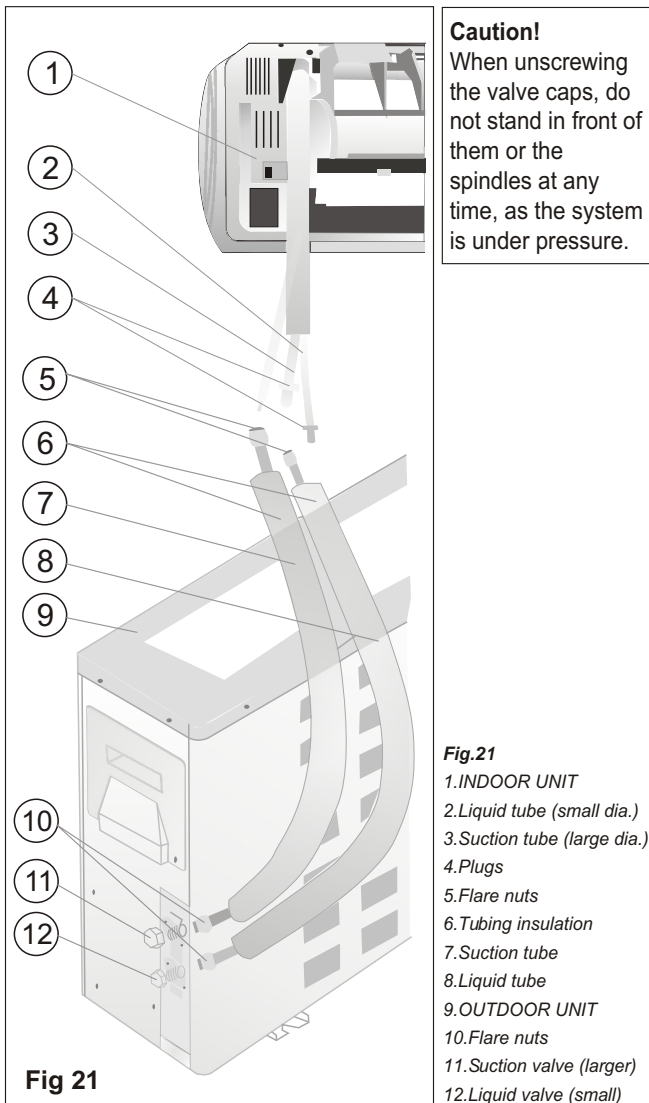
CONNECT THE INDOOR TO THE OUTDOOR UNIT

The indoor unit contains a small quantity of Helium. Do not unscrew the nuts from the unit until you are ready to connect the tubing. The outdoor unit is supplied with sufficient refrigerant charge for a 6 m tubing length. For additional charge, please refer to outdoor unit nameplate.

To prevent crushing, bend tubes using a bending tool.

NOTE: Use refrigeration type copper tubing only.

1. Use tubing diameter that corresponds to the tubing diameter of the indoor and outdoor units. Note that the liquid and suction tubes have different diameters. (See tube size, torque tightening table.)
2. Place flare nuts on tube ends before preparing them with a flaring tool. Use the flare nuts that are mounted on the supplied outdoor and indoor units.
3. Connect the four ends of the tubing to the indoor and outdoor units.
4. Insulate each tube separately, and their unions, with at least 6 mm of insulation. Wrap the refrigerant tubing, drain hose and electric cables together with a vinyl tape (UV protected).



Tightening torques of unions and valve caps:

| TUBE SIZE | TORQUE |
|-------------------|-------------|
| Liquid line 3/8" | 30-35 N.M. |
| Suction line 1/2" | 50-54 N.M. |
| Suction line 5/8" | 75-78 N.M. |
| Suction line 3/4" | 80-100 N.M. |

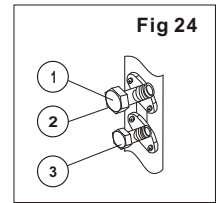
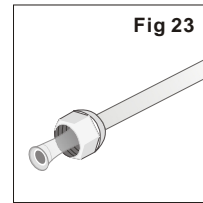
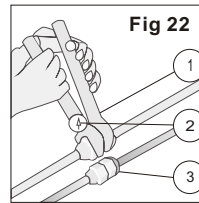


Fig.22

1. Wrench
2. Torque wrench
3. Union

Fig.23

To prevent refrigerant leakage, coat the flared surface with refrigeration oil

Fig.24

1. Suction valve
2. Service port
3. Liquid valve

EVACUATION OF THE REFRIGERATION TUBES AND THE INDOOR UNIT

After connecting the unions of the indoor and outdoor units, purge the air from the tubes and indoor unit as follows:

1. Connect the charging hoses with a push pin to the low and high sides of the charging set and the service port of the suction and liquid valves. Be sure to connect the end of the charging hose with the push pin to the service port.
2. Connect the center hose of the charging set to a vacuum pump.
3. Turn on the power switch of the vacuum pump and make sure that the needle in the gauge moves from 0 Mpa (0cm Hg) to -0.1 MPa (-76cm Hg). Let the pump run for fifteen minutes.
4. Close the valves of both the low and high sides of the charging set and turn off the vacuum pump. Note that the needle in the gauge should not move after approximately five minutes.
5. Disconnect the charging hose from the vacuum pump and from the service ports of the suction and liquid valves.
6. Tighten the service port caps of both suction and liquid valves.
7. Remove the valve caps from both valves, and open them using a hexagonal Allen wrench.
8. Remount valve caps onto both of the valves.
9. Check for gas leaks from the four unions and from the valve caps. Test with electronic leak detector or with a sponge immersed in soapy water for bubbles.

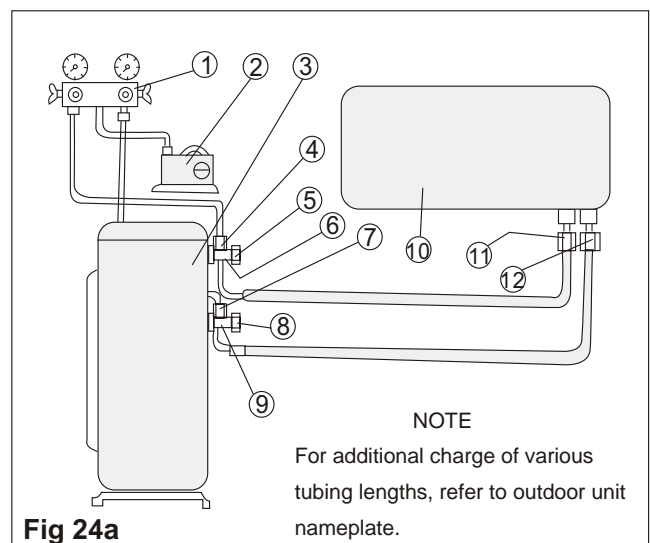
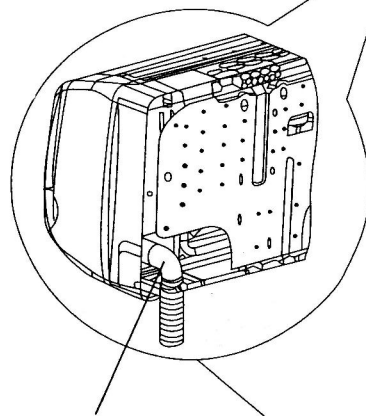
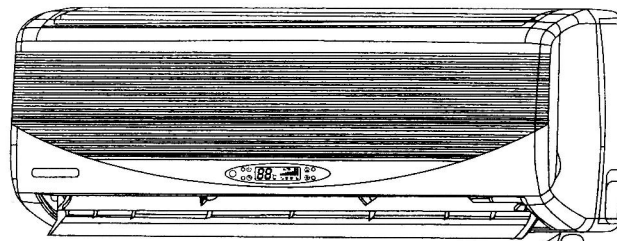


Fig.24a

1. Charging set
 2. Vacuum pump
 3. OUTDOOR UNIT
 4. Service valve
 5. Cap
 6. Suction valve
 7. Service valve*
 8. Cap
 9. Liquid valve
 10. INDOOR UNIT
 11. Suction flare connection
 12. Liquid flare connection
- *In some models only

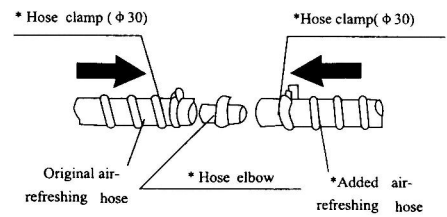
INSTALL THE AIR FRESH HOSE (Optional)



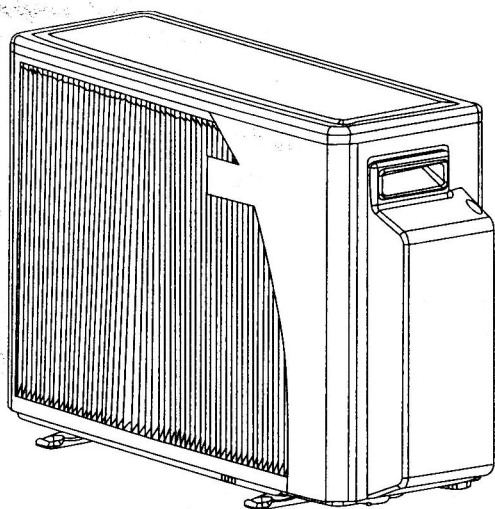
Air pipe joint

Fig 1

A 5 m of air refreshing hose is supplied with this equipment. You can length the hose with another hose supplied by the professional installer in the installation if it is needed. Use the hose elbow and clamps to joint the smaller end ($\phi 30$) of the added hose with the original one, and then fix the other end with the interface of the propeller housing by the outdoor hose clamp ($\phi 30$). (Shown in below diagram).



(The part with * in the diagram will be supplied in the installation if you need to length the air refreshing hose)



Air fresh hose

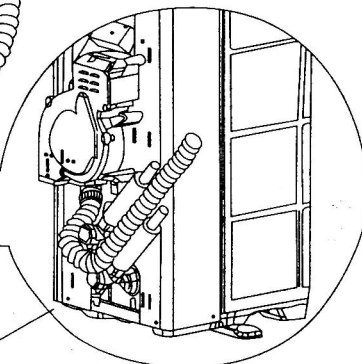


Fig 2

1. Joint the air pipe joint on the outdoor unit.
2. Joint the air fresh hose on the air pipe joint and fix the indoor hose damp ($\phi 30$) (Fig 1).
3. Joint the air fresh hose with the interface of the propeller housing and fix with outdoor hose clamp ($\phi 30$) (Fig 2)

1. Replace all valve caps and ensure that they are tightened properly.
2. Fill gaps on the wall between hole sides and tubing with sealer.
3. Attach wiring and tubing to the wall with clamps where necessary.
4. Operate the air conditioner together with the customer and explain all functions.
5. Explain filter removal, cleaning and installation.
6. Give the operating and installation manuals to the customer.

**TECHNICAL ENQUIRIES****1800 1800 04****SERVICE / WARRANTY****1300 553 000****MELBOURNE**

**745 Springvale Road
Mulgrave VIC 3170****TEL: (03) 9271 3505****FAX: (03) 9271 3540****SYDNEY**

**CNR Marion St & Airport Ave
(P.O. Box. VQ)Banktown
Airport NSW 2200****TEL: (02) 9793 3644****FAX: (02) 9793 3688****BRISBANE**

**Unit 9, 123 Muriel Ave
Moorooka QLD 4105****TEL: (07) 3392 8113****FAX: (07) 3392 8115****ADELAIDE**

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Greenhill Road
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**Suite 23, 350 Cambridge St
Wembley WA 6014****TEL: (08) 9284 0800****FAX: (08) 9284 0600****NEWCASTLE**

**Suite 3, 19 Darby Street
Newcastle NSW 2300****TEL: (02) 4940 4652****FAX: (02) 4940 4653****NEW ZEALAND**

**517A Rosebank Road
Avondale, Auckland NZ****TEL: (09) 820 0333****FAX: (09) 820 0332****NZ Tech Support Freecall****TEL: 0800 180 094****www.airwell.com.au**