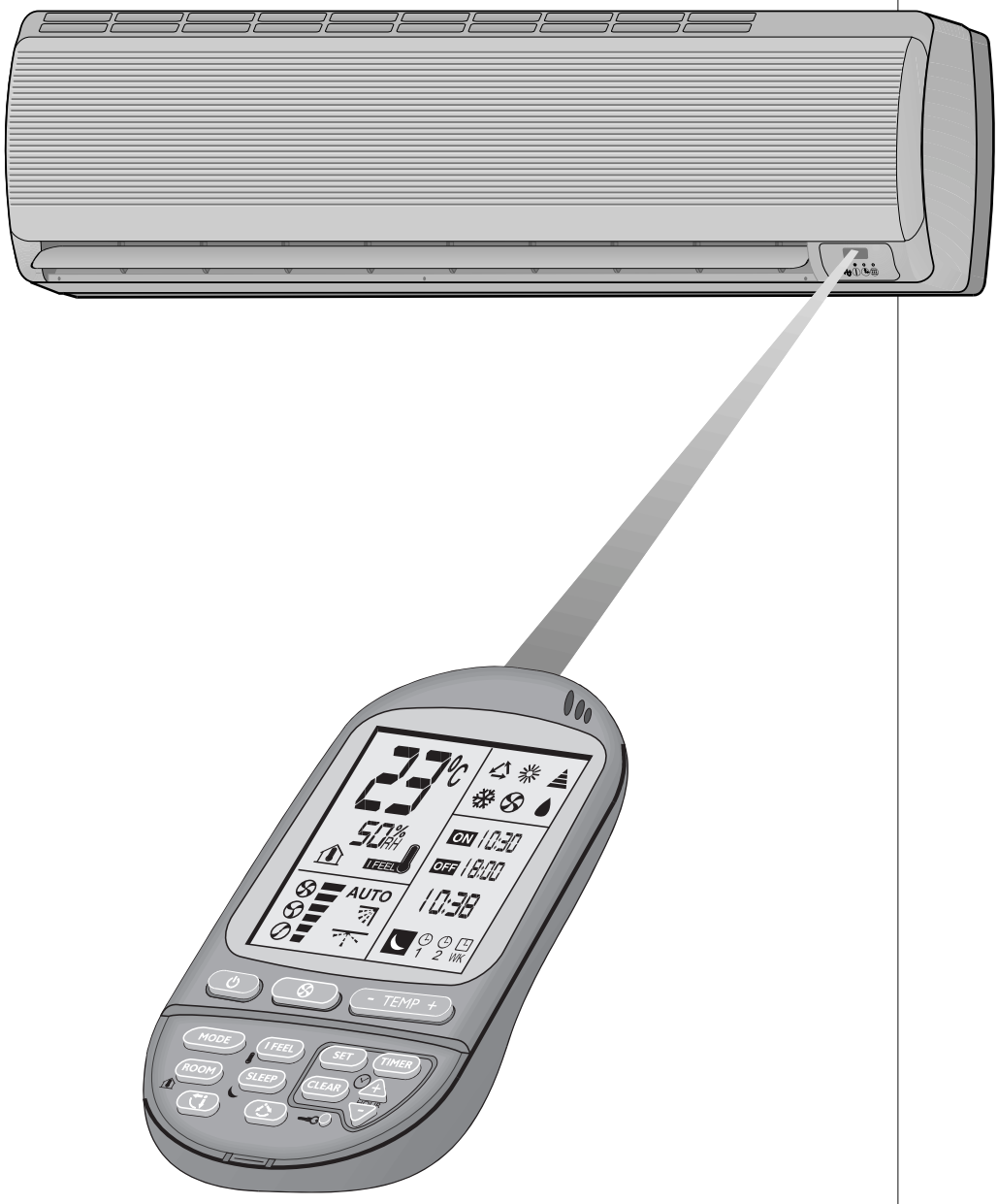
SPLIT WALL-MOUNTED
AIR CONDITIONER



XLM17RCA / GCXLM17RCA & XLM24RCA(STA) / GCXLM24RCA(STA)-S

PROGRAMING AND OPERATION MANUAL

INSTALLATION INSTRUCTIONS

Airwell
From EMAILAIR

CONTENTS

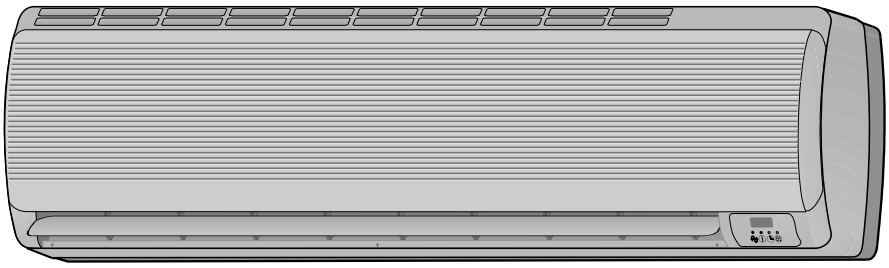
IF YOUR AIR CONDITIONER IS FOR COOLING ONLY, PLEASE DISREGARD THE HEATING INSTRUCTIONS

*PLEASE READ THESE INSTRUCTIONS **BEFORE** OPERATING THE AIR CONDITIONER*

INTRODUCTION

This Split Air Conditioner is designed for versatile applications:

	● Cooling air in the summer.
	● Dehumidifying the air at high humidity conditions.
	● Heating.
	● Air Filtration.
	● Ventilation.



OPERATING TEMPERATURE RANGE:

(According to T1 temperature condition)

Cooling	21°C ~	43°C
Heating	-7°C	21°C

IMPORTANT NOTICE:

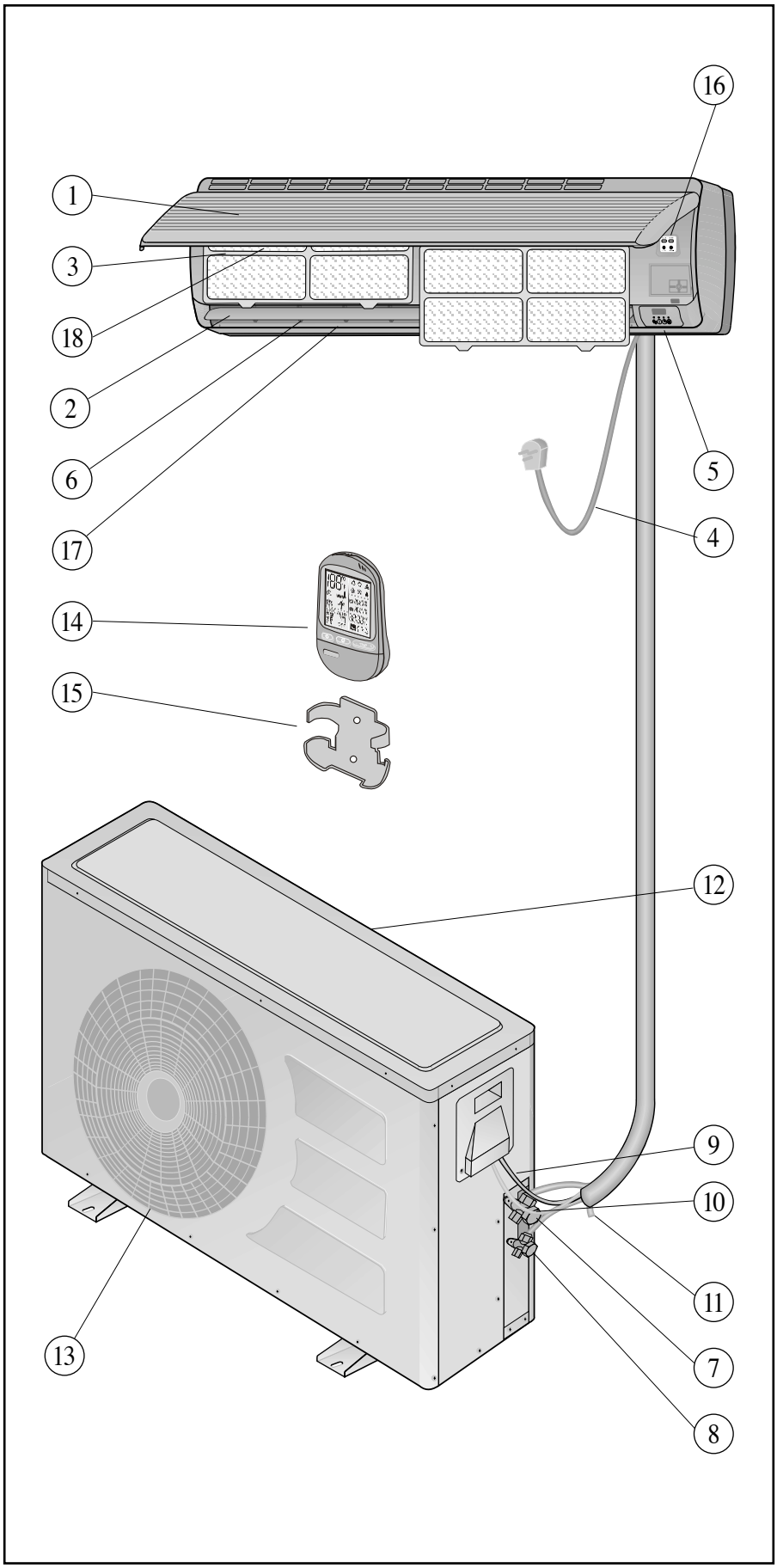
● *This air conditioner must be grounded to protect against electrical shock.*

● *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 grille*
2. *Supply air flap (louver)*
3. *Air filter*
4. *Power cord*
5. *Unit's indicators*
6. *Horizontal Air Flow Deflecting Louvers*
7. *Suction line*
8. *Liquid line*
9. *Power cable*
10. *Control wire*
11. *Condensate tube*
12. *Outdoor unit air intake*
13. *Outdoor unit air outlet*
14. *Remote control*
15. *Remote control holder*
16. *On unit controls*
17. *Air outlet*
18. *Air purifying filter (optional)*

MODES OF OPERATION, FUNCTIONS AND FEATURES

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

HEAT Heats and filters the room air. Maintains 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 with 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 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. (Generally the temperature sensor is located behind the intake grille of the air conditioner). This function is designed to provide a personalized environment by transmitting the temperature control command from the location 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, up 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 seven hours. The result is a more comfortable and invigorating sleep, which leaves you feeling fresh and energetic in the morning.

%RH HUMIDITY MEASUREMENT (OPTIONAL)	Measures and displayes relative humidity between 30% and 90% at a temperature range of 15°C to 45°C.
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.
Horizontal swing key	Auto swing and fixed direction is circle and modulators;When press key once,fan direction board will be automatic,press again and fan direction board will be fixed.It retains when mode is switchover.
Vertical swing key (A1 & A2)	Vertical swing is controlled by 2 step motors A1 & A2.There are 7 kinds of modes:1) A1 & A2 at left together,2) A1 & A2 at left-middle together,3) A1 & A2 at middle together,4) A1 & A2 at right-middle together,5) A1 & A2 at right together,6) A1 at left and A2 at right,7) A1 & A2 auto swing.
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 conditoner can be turned ON for COOLING or HEATING or be turned OFF directly form 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 (optional)	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 (optional)	Ionizer make the air more fresh and more comfort. Slide switch (M) to the ON position and use the remote control to activate the ionizer. The blue light indicator (L) 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.

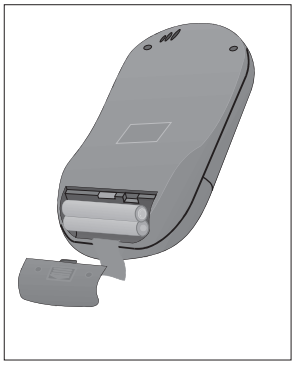
USE OF WIRELESS REMOTE CONTROL

WIRELESS REMOTE CONTROL PUTS ALL FUNCTIONS AT YOUR FINGERTIPS

PRIOR TO OPERATION

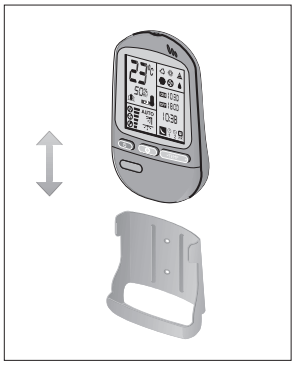
Prior to operating your air conditioner, make sure that:

- *The red tab protecting the remote control battery has been removed.*
- *For clock setting see page 11.*



REMOTE CONTROL HOLDER

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



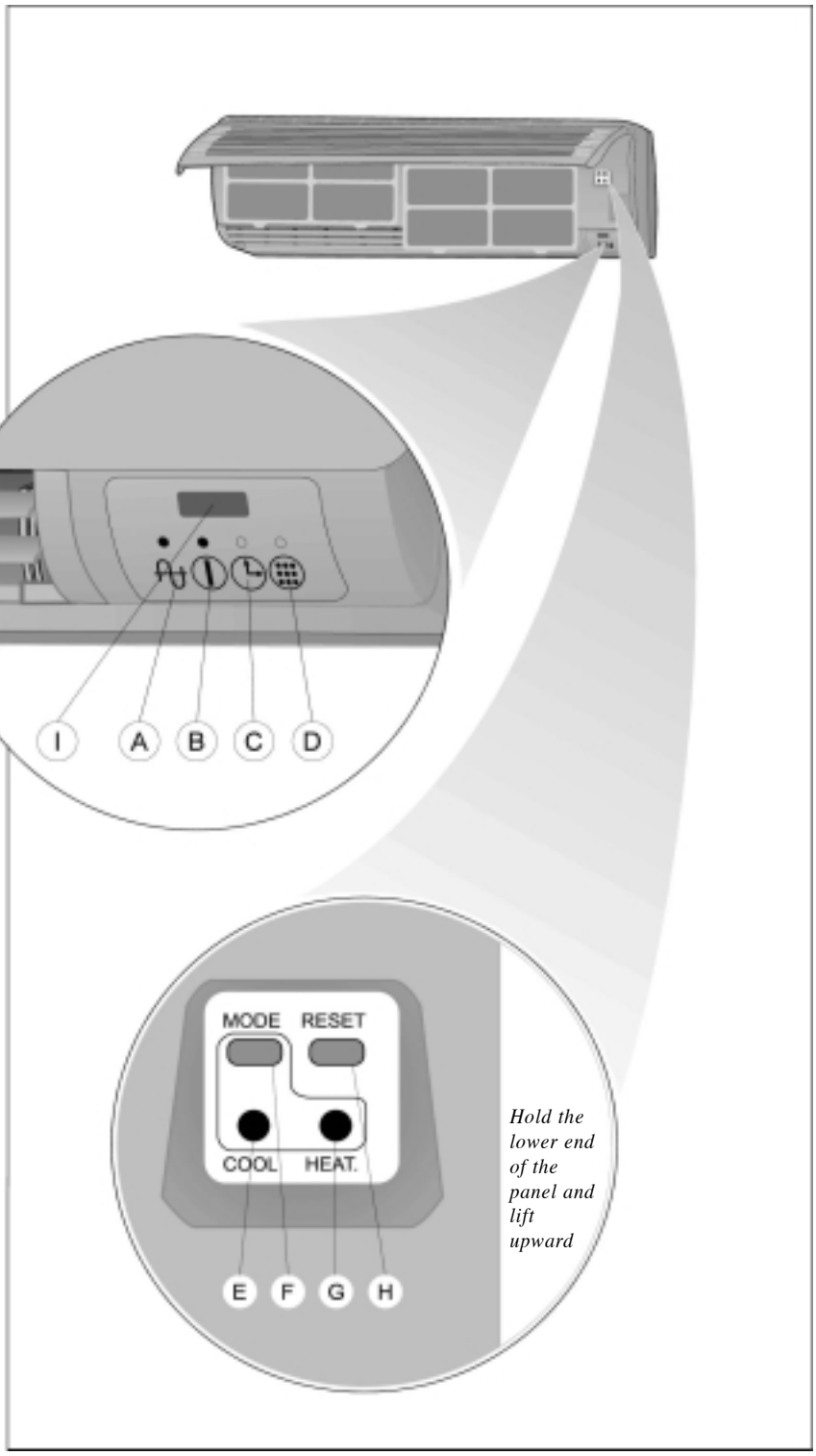
- Aim at the infrared signal receiver on the room air conditioner when operating.
- The remote control signal can be received at a distance of up to about 8 m.
- Ensure that there are no obstructions between the remote control and the signal receptor.
- Do not drop or throw the remote control.
- Do not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

REMOTE CONTROL BATTERY CHANGE

- Remove the batteries from the remote control as shown.
- Use two 1.5 volt size AAA batteries
- For protecting the enviroment, please, return used batteries for recycling process.

ON-UNIT INDICATORS AND CONTROLS

SERIES: WS 022C - 069C / WS 022H - 069H



A *STAND-BY INDICATOR*

Lights up when the air conditioner is connected to power and ready to receive the remote control commands.

B *OPERATION INDICATOR*

Lights up during operation. Blinks once to announce that the remote control infrared signal has been received and stored. Blinks continuously in protection mode.

C *TIMER INDICATOR*

Lights up during timer and sleep operation.

D *FILTER INDICATOR*

Lights up when air filter requires cleaning.

E *COOLING INDICATOR*

Lights up only when Mode (F) is pressed.

F *COOL / HEAT / OFF / ON UNIT OPERATION BUTTON*

Used to switch the unit OFF or to turn it ON for COOLING or HEATING without the use of the remote control.

G *HEATING INDICATOR*

Lights up only when Mode (F) is pressed.

H *RESET BUTTON*

- *Press to turn off the FILTER indicator and to reset the filter function, after the clean filter has been reinstalled.*
- *Press to cancel the buzzer announcer, if elected.*

I *SIGNAL RECEIVER*

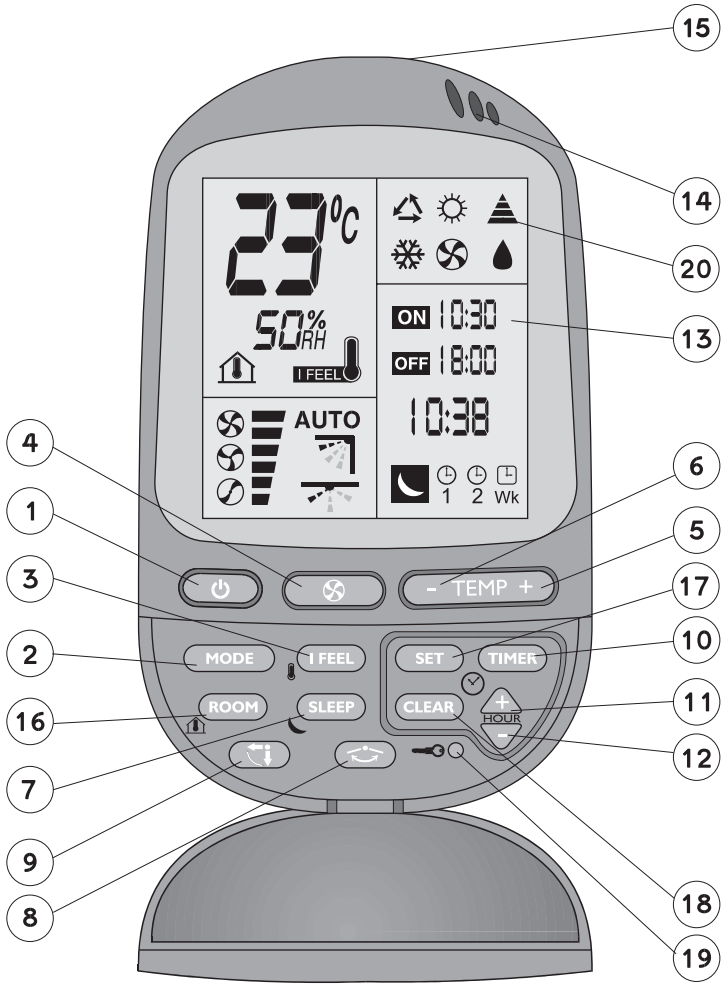
- *Receive signals from the remote control.*

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 (F) 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 (E), (G) or (A) 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.

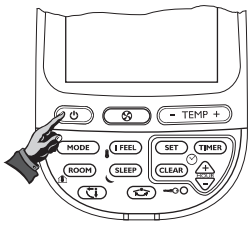
REMOTE CONTROL



***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 MANUAL positioning control button*
9. *Airflow direction AUTO-CONTROL button*
10. *TIMER button*
11. *TIMER UP button*
12. *TIMER DOWN button*
13. *LCD operation display*
14. *I FEEL sensor*
15. *Infrared signal transmitter*
16. *ROOM temperature button*
17. *TIMER SET button*
18. *TIMER CLEAR button*
19. *LOCK button*
20. *Transmission sign*

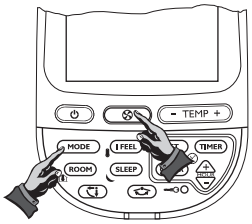
OPERATION PROCEDURE



TURNING ON THE AIR CONDITIONER

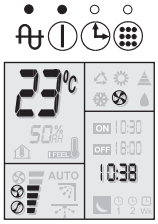
Press START/STOP button (1) to turn the air conditioner on. The operation indicator on the air conditioner will light up, indicating that the unit is in operation. Note that the LCD operation display (13) will always show the last mode of operation and previous function used.

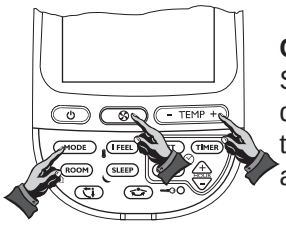
Follow the instructions if you choose to change the control settings; otherwise, the air conditioner will start and operate in the same mode and functions prior to being turned off.



VENTILATING OPERATION

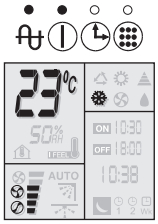
Select the ventilating mode by pressing MODE button (2). Switch to the desired fan speed by pressing FAN speed button (4).

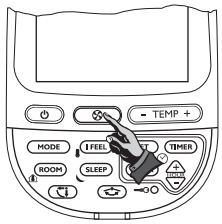




COOLING OPERATION

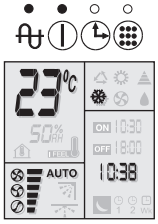
Select the COOLING mode by pressing MODE button (2). Switch to the desired FAN SPEED or to AUTO FAN by pressing button (4). Select suitable temperature setting. By selecting the COOLING mode, the air flap will move automatically to horizontal air delivery position, optimal for cooling.

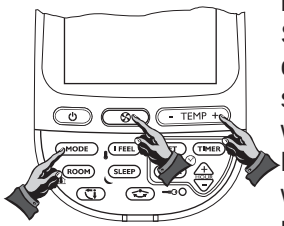




COOLING OPERATION WITH AUTO FAN MODE

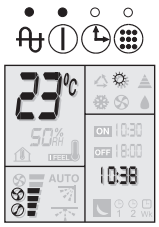
This operation starts with the highest air flow in order to quickly lower the room temperature. It will then automatically switch to the low air flow to quietly maintain the selected temperature.

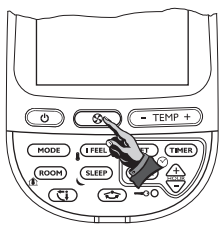




HEATING OPERATION

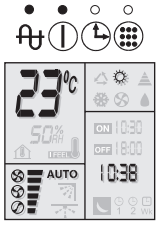
Select the HEATING mode by pressing MODE button (2). Switch to the desired FAN SPEED or to AUTO FAN by pressing FAN button (4). Select suitable temperature setting. By selecting the HEATING mode, the air flap will move automatically to vertical air delivery position, optimal for heating.The HOT KEEP function is provided. The fan will be turned off when the indoor coil temperature is not sufficiently hot to prevent uncomfortable cold air drafts. In some models the HOT KEEP function is operating in AUTO FAN mode only.

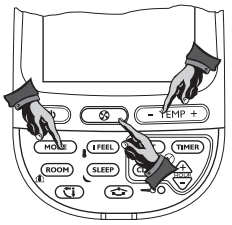




HEATING OPERATION WITH AUTO FAN MODE

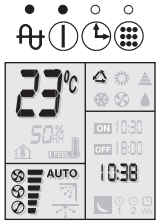
This operation starts with the highest air flow in order to quickly raise the room temperature. It will then automatically switch to a lower air flow to quietly maintain the selected temperature.

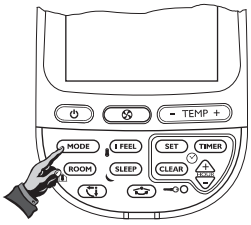




AUTO COOLING / HEATING OPERATION

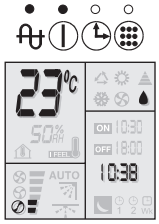
Select the AUTO mode by pressing MODE button (2). Switch to the desired FAN SPEED or to AUTO FAN by pressing button (4). Select suitable temperature setting. The air flap will automatically move to either horizontal air delivery for cooling or to vertical air delivery for heating. At start, the air conditioner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

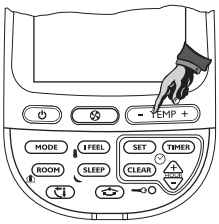




DRY OPERATION

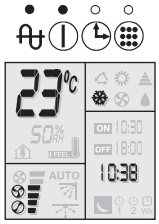
Select the DRY mode by pressing MODE button (2). Select the suitable temperature setting. While in DRY mode, the air conditioner will operate at low fan speed, regardless of the fan setting on the LCD operation display. Fan might terminate operation from time to time to prevent from over cooling. By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

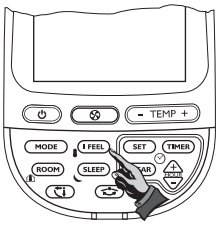




SELECTING THE TEMPERATURE

Press TEMP buttons (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

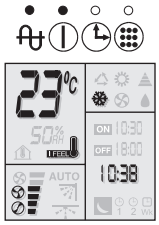




I FEEL FUNCTION

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 SLEEP button (7) to select the SLEEP function.

The sleep icon light while the sleep OFF time icon and the time which is 7 hours after current time blink as deafult. The default setting can be changed from 3 hr. to 12 hr. by pressing up and down buttons HOUR+ (11) and HOUR- (12) respectively.(The sleep timer will display the default time or the setting time plus the current time initially in the display).

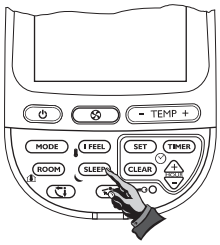
For example : currrent time is 23:00 and the sleep mode is set , the sleep mode OFF time will be 6:00 . If the sleep off time is set to 10 hr, then the sleep mode OFF time will be 9:00.All other timers will temporarily be suspended during the activation of the sleep timer.

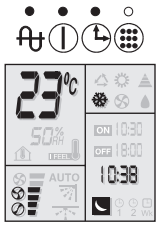
The other timers will resume operation at the end of the SLEEP time.

To cancel the SLEEP function press one of the following:

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

NOTE: In some models the SLEEP icon lights only and the OFF time is set for seven hours as default.





TIMER OPERATION

There are four timers that can be selected on the remote control.Two daily timers (designated as T1,T2) ,and two optional weekend timers (designated as WKTI, WKT2) .Each timer can be selected by pressing TIMER button (10). To set each timer use time adjust up and down buttons Hour+ (11) and Hour- (12) respectively. SET button (17) to enable the timer and/or CLEAR button (18) to disable the timer.
Indicator (c) on the air conditioner will light up during timer operation.

NOTE: After a power, failure the timer operation is cancelled, timer indicator on the air conditioner will blink, the unit will be automatically turned to stand-by mode and STAND-BY indicator lights. To resume the timer operation, follow the instructions below.

A. DAILY TIMER

The daily timers T1 and T2 can be set for ON and OFF separately for two different time periods. Once the timer is set it will resume operation when initiated.

B. WEEKEND TIMER (OPTIONAL)

The weekend timers WKT1 and WKT2 can be set for ON and OFF separately
for two different time periods for two days only.
It will be effective on the day of setting and on the day after only.
At 24:00 on the second day, the WK timer will not be effective anymore and the daily timer will resume its effectiveness.

WKTI - effective on the setting day
WKT2 - effective one day after the setting day.

NOTE:
1. During the weekend timer operation, the daily timers will be disabled.
2. The WK timers must be reactivated before every weekend.

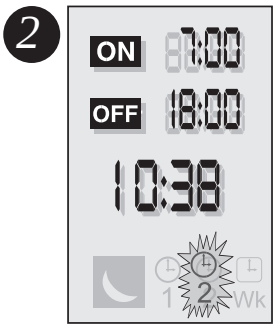
C. SELECTING A TIMER

Press the TIMER button (10) to select a timer. Each time the TIMER button (10) is pressed, one of the four following timer icons will appear on the LCD display.

Press TIMER button to select daily timer T1.

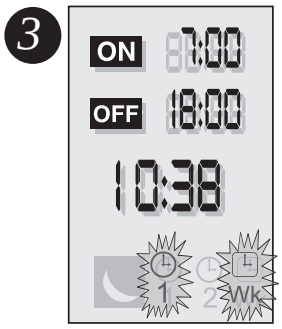
Icon 1 of Timer T1 will blink

Press TIMER button to select daily timer T2.



Icon 2 of Timer T2 will blink

Press TIMER button to select weekend timer WKT1



Icons 1 and WK will blink

Press TIMER button to select weekend timer WKT2

Icons 1 and WK will blink.

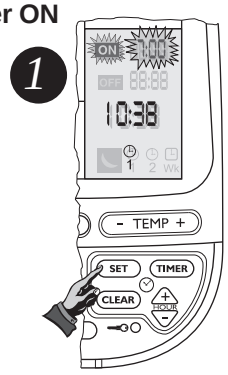
TIMER OPERATING MODES

SETTING THE ON TIMER

Undertake the following steps after selecting a timer - T1,T2 or WKT1, WKT2, to set a timer for the start time of operation.

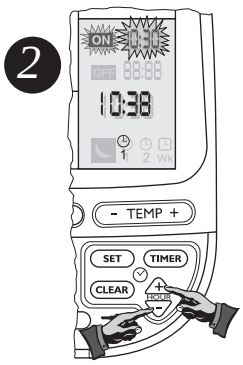
EXAMPLE: Turning the air conditioner ON at 10:30.

Press the SET. button.



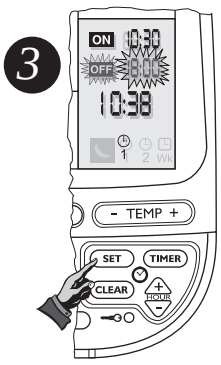
The ON icon & ON time digits will blink

Set the hours and minutes.



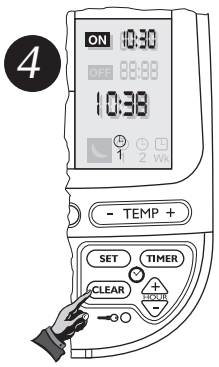
1.Set the ON time at 10:30 .
2.Press the (HOUR+) up button to advance the time, and press the (HOUR-) down button to retract.

Press the SET button



1. The ON time is activated at 10:30 (the time ON icon will light)
2. Time OFF icon & OFF time digits will blink.

Press the CLEAR button.



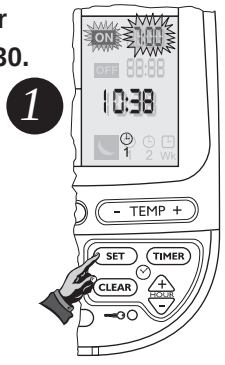
Timer OFF is cleared.

SETTING THE OFF TIMER

Undertake the following steps after selecting a timer - T1,T2 or WKT1, WKT2, to set a timer for the stop time of operation.

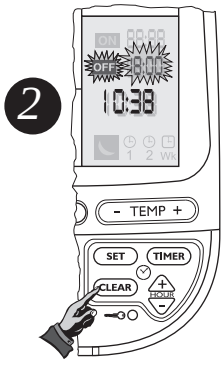
EXAMPLE: Turning the air conditioner OFF at 18:30.

Press the SET. button.



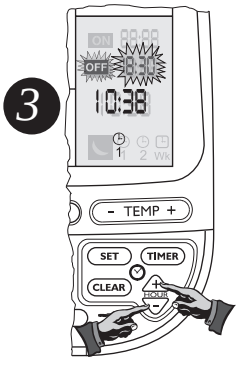
The ON icon & ON time digits will blink.

Press the CLEAR button.



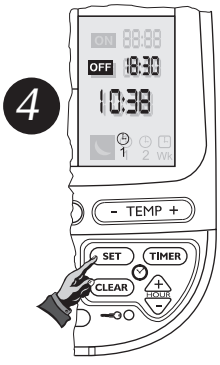
1. The ON time is cleared.
2. OFF time icon & OFF time digits will blink.

Set the hours and minutes.



1.Set the OFF time at 18:30 .
2.Press the (HOUR+) up button to advance the time, and press the (HOUR-) down button to retract

Press the SET button



OFF time is activated at 18:30 (the (timer OFF icon will light)

NOTES:
1.The default setting for the timers are 7:00 and 18:00 for ON and OFF, respectively.
2. The timer mode will display always the last ON and OFF settings on the LCD display

SETTING THE ON AND OFF TIMERS

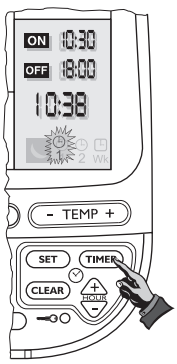
Undertake the following steps after selecting a timer - T1,T2 or WKT1, WKT2, to set a timer for the start and stop time of operation.

EXAMPLE: Turning the air conditioner ON at 10:30 and OFF at 18:30.

1	2	3	4	5
Press the SET button	*Set the hours and minutes.*	*Press the SET button*	*Set the hours and minutes.*	*Press the SET. button.*
				
The ON icon & ON time digits will blink.	*1. Set the ON time at 10:30. 2.Press the (HOUR+) up button to advance the time, and press the(HOUR-) down button retract.*	*1.The ON time is activated at 10:30 (the time ON icon will light) 2.Timer OFF icon & OFF time digits will blink.*	*1. Set the OFF time at 18:30. 2.Press the (HOUR+) up button to advance the time, and press the (HOUR-) down buttton retract.*	*OFF time is activated at 18:30 (the timer OFF icon will light)*

TO CHANGE THE TIME SETTING

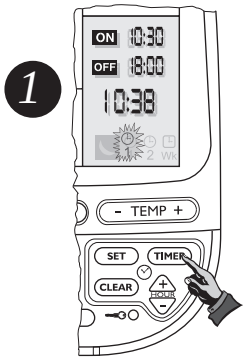
EXAMPLE: To change the ON time setting from 10:30 to 9:20 (while preserving the OFF time setting)

1	2	3	4	5
Press the TIMER button until the selected timer icon blinks.	*Press the SET button to enter edit mode*	*Change the setting time to 9:20 by pressing on HOUR-.*	*Press the SET button to save the new setting.*	*Press the SET button to confirm the previous timer OFF setting*
				
Note that the corresponding formerly set timer digits will display without blinking.	*ON icon & ON time digits blink*	*ON icon & ON time digits blink*	*ON icon & ON time digits light while OFF icon & OFF time digits blink.*	*ON & OFF icons and time digits of the consequent timer light*

TO CANCEL THE TIMER SETTING FOR A PARTICULAR TIMER

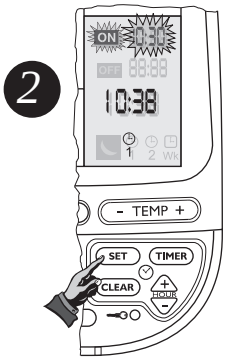
To cancel the ON time while keeping the OFF time setting.

Press TIMER button to select a timer.



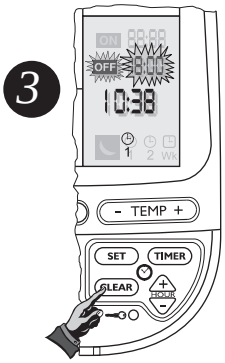
The selected timer icon blinks & the correspending previous timer ON, OFF settings light.

Press SET button .



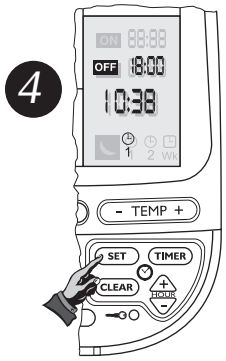
ON icon & ON time digits blink.

Press CLEAR button



ON time is cleared, OFF icon & OFF time digits blink.

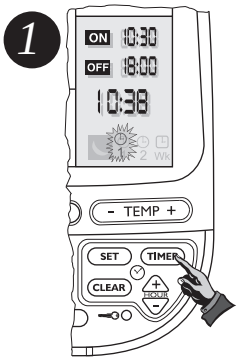
Press SET button



Confirm the new setting.

TO CANCEL THE ON & OFF TIME SETTINGS

Press TIMER button to select a timer.



The selected timer icon blinks & the correnspending previous time ON, OFF settings light .

Press CLEAR button

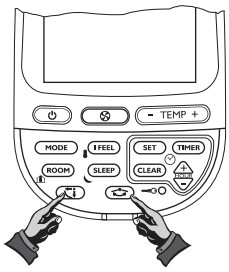
All settings of the selected timer are cleared.

NOTES:

1 .The default settings for the timers are 7:00 and 18:00, for ON and OFF respectively.

2. The timer mode will always display the last ON and OFF settings on the LCD display.

3. Pressing CLEAR button (18) for 5 seconds will cancel all timer settings and clear timer display.



AIR DIRECTION OPERATION

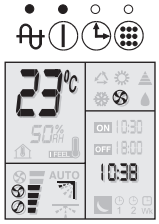
1. Automatic Vertical Air Swing
Press button (9) to activate the auto air swing. Press button (9) again to deactivate this function

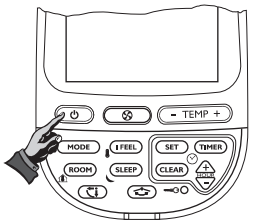
2. Air Direction Positioning (See Option 1 on page 2)
Press button (8) to position the air flap to any desired angle.

3. Horizontal air flow control (See Opion 2 on page 2)

A. AUTOMATIC HORIZONTAL AIR SWING
Press button (8) to activate the auto swing
The horizontal swing icon will light on the LCD display

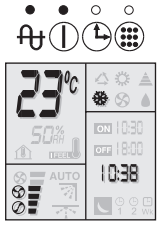
B. MANUAL AIR DIRECTION POSITIONING
Press button (8) once again to position the air blades at any desired

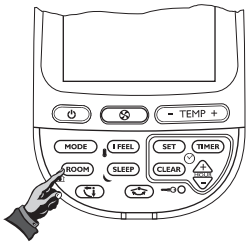




TURNING OFF THE AIR CONDITIONER

Press START/STOP button (1) to turn off the air conditioner. Indicator (B) on the air conditioner will be turned off. Indicator (A) 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.



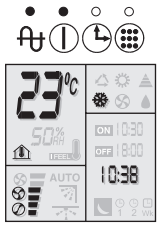


ROOM TEMPERATURE DISPLAY

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:

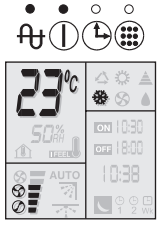
- Press again on ROOM temperature button (16).
- Change of MODE button (2)

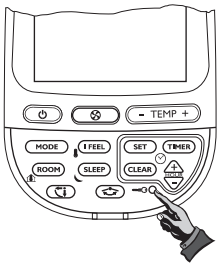
NOTE: Room temperature range is between 0°C and 36°C in 1°C increments. Display should show "HI" or "LOW" to represent temperature that is above 36°C or below 2°C.



CURRENT CLOCK TIME SET

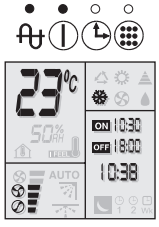
Clock setting is performed when batteries are inserted. The remote control displays the setting and the clock display will blink "0:00" or "12:00" AM (AM sign will blink, too) till a new time is set.
For clock setting, use buttons (11) and (12) for setting the hours and minutes, respectively, and then press timer SET button (17). The clock setting can be also performed by pressing timer 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.



PROTECTION MODES

Your air conditioner includes several automatic 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 outdoor fan and compressor when approaching freezing conditions Resumes operation automatically.
	High outdoor temperature	Outdoor coil overheating	Stops compressor when approaching over heating conditions. Resumes operation automatically. Operating indicator (B) blinks.
Heating	Low outdoor temperature	Outdoor coil ice build up	Reverses operation from heating to cooling for short periods to de-ice outdoor coil. Operating indicator (B) blinks.
	High indoor or outdoor temperature	Indoor coil overheating	Stops outdoor fan and compressor when approaching high indoor coil temperature. Resumes operation automatically.

CARE AND MAINTENANCE

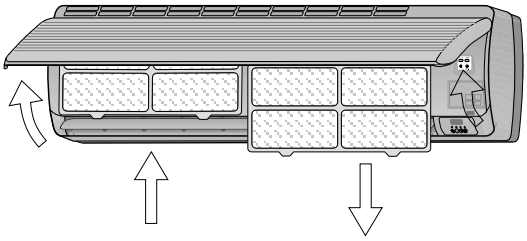
Before performing any maintenance procedure, make sure to disconnect the air conditioner from the power.

CLEANING THE AIR FILTER

● Your air conditioner is provided with a filter cleaning indicator. When the indicator (D) 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 thorougly. Align and fit the filters in place. Close the panel by pushing it in the center to lock it in place.

● Reset button (H) to turn off indicator (D).



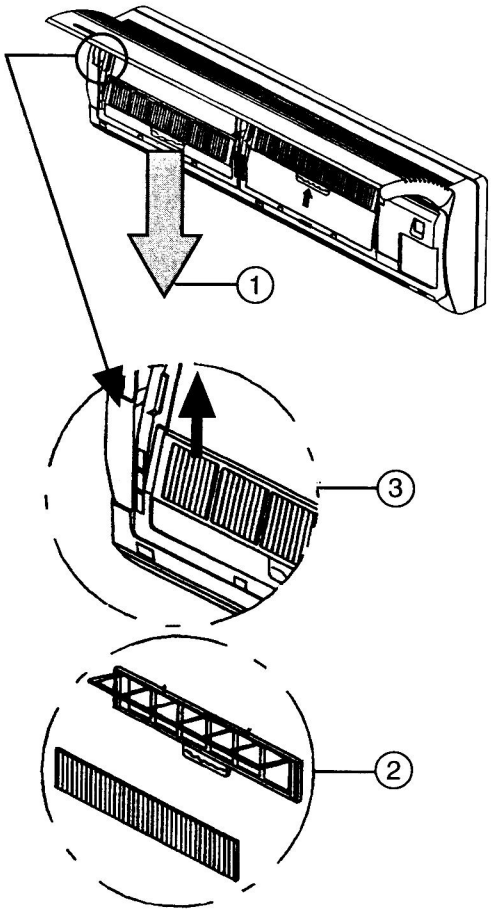
DO NOT OPERATE THE UNIT WITHOUT FILTERS!

PURIFYING FILTER REPLACEMENT

The air purifying filter should be removed from the unit and replaced once a year, as shown in figures 1, 2 and 3.

1. Pulling out the filter
2. Replacing and securing the filter in its frame
3. Sliding the filter back in its place

Note: The above procedure is used for replacing the active carbon filter (when supplied).



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.

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° and 27°C. When used out of this range, the unit may protect itself and become inoperative.

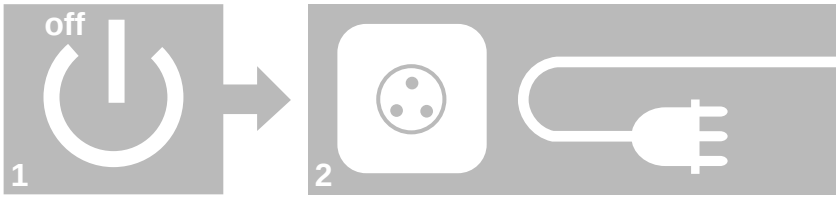
● When COOL or DRY modes are used, make sure that the room's relative humidity is below 78% If the unit is used for a prolonged periods of time in high humidity, moisture may form on the air outlet and drip down.

● 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.

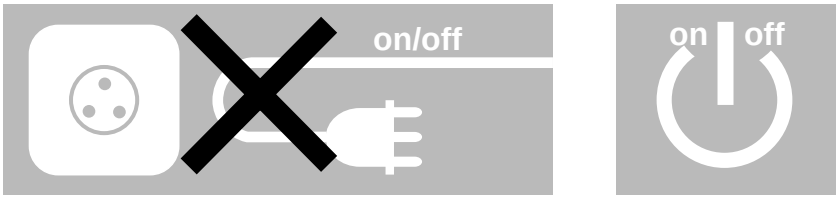
● The remote control is operative in a range of 8 meters. If you are out of range, the remote control may have difficulties in transmitting signals.

PRECAUTIONS

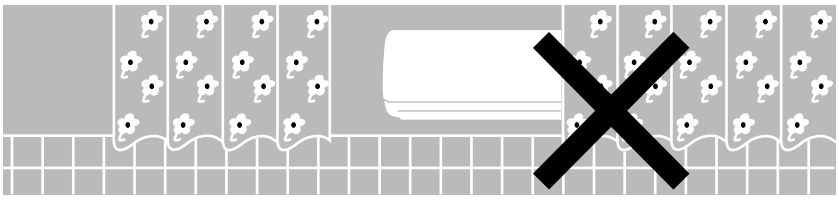
● Use the proper electrical fuse.
Do not pull out the power cord unless the unit is turned off.



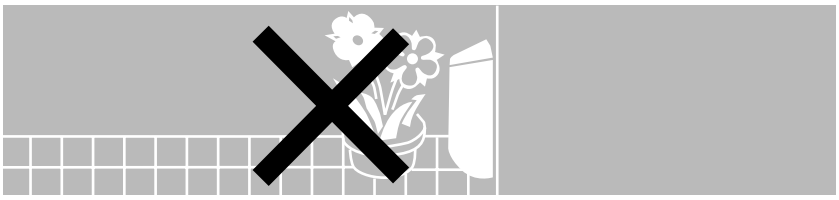
● Do not start or stop operation by disconnecting the power cord.



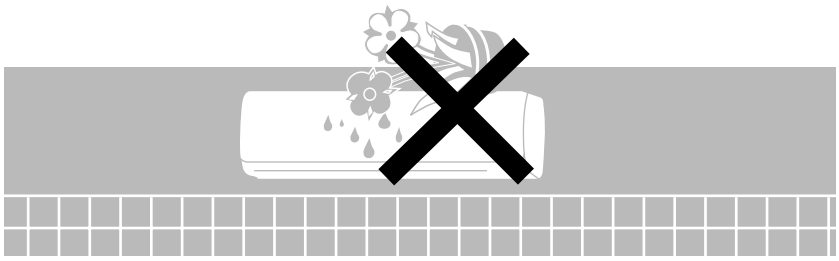
● Do not obstruct or block the air inlet or air outlet of the air conditioner.



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



● Do not splash water on the 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 as needed.

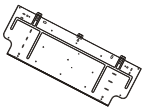
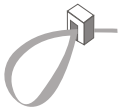
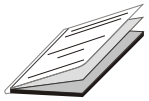
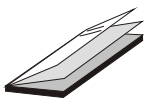
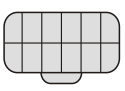
Problem	Cause	Remedy
● Unit does not operate. Stand-by indicator does not light up	❑ Unit not connected to power ❑ Power failure	■ Plug in the power cord ■ Check main fuse
● Unit does not operate. Stand-by indicator lights.	❑ Remote control malfunctions	■ Check remote control batteries ■ Try to operate from a closer distance ■ Start from on-unit controls ■ Perform reset operation by pressing buttons:(11)(12)(17)(18) for 5 sec.
	❑ The remote control is locked	■ Unlock the remote control
● 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	■ Get closer to unit
	❑ IR receiver on-unit exposed to strong light source	■ Dim lights, fluorecents especially
● Air does not blow out from indoor unit	❑ De-icing protection mode is activated ❑ Unit 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 ❑ Unit capacity insufficient for load or room size	■ Reset temperature ■ Consult your dealer
● Filter indicator lights up	❑ Air filter needs cleaning.	■ Clean filter, reinstall and reset indicator

INSTALLATION INSTRUCTIONS

The appliance shall not be installed in the laundry

1

ACCESSORIES SUPPLIED WITH THE AIR CONDITIONER

Shape	Name	Qty	Used for
	*Mounting rail*	1	*Wall mounting of indoor unit*
	*Remote control with batteries*	1	*Operation of unit*
	*Remote control bracket*	1	*Wall mounting of remote control*
	*Screws washers Dowels*	8	*Wall mounting of indoor unit*
	*Screws, Dowels*	2	*Wall mounting of the remote control bracket*
	*Outdoor unit drain connector*	1	*Outdoor unit water drain*
	*Mounting pads*	4	*Padding of outdoor unit bottom supports*
	*Cable ties*	4	*Securing wires in the indoor and outdoor unit*
	*Cable terminals*	2	*Securing of grounding wire on the indoor and outdoor unit*
	*Operation instructions*	1	*Users´ reference*
	*Installation instructions and template*	1	*Installers´ reference*
	*Air purifying filter (optional)*	1	*Cleaning the air*

2

LOCATION OF INDOOR AND OUTDOOR UNITS

Select the location considering the following:

INOOR 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 draingage 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 vibration-generated noise.
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. Before 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 as shown.

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

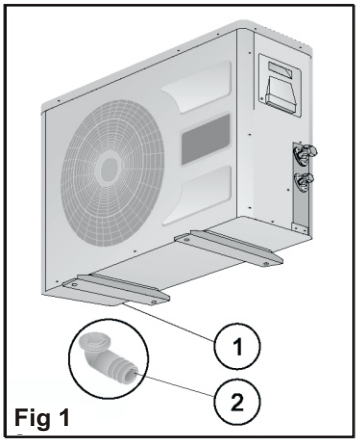


Fig 1

Fig.2
Drain installation Example

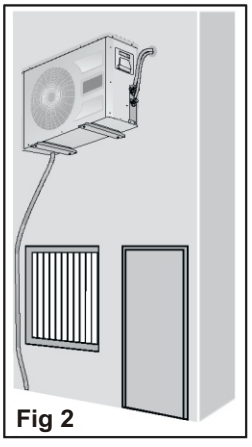


Fig 2

Fig 3

Length of electric cable to mains

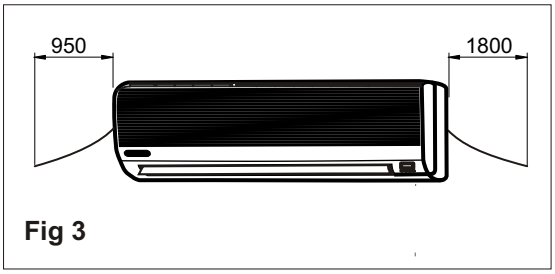


Fig 3

Fig 4

Direction of tubing

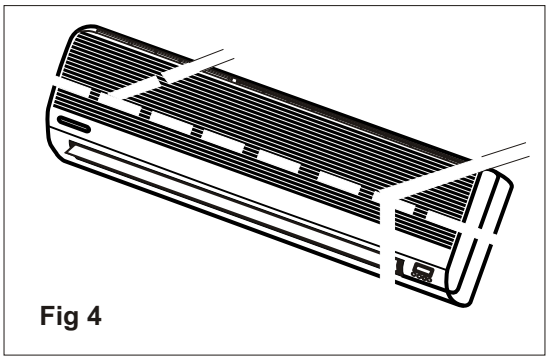


Fig 4

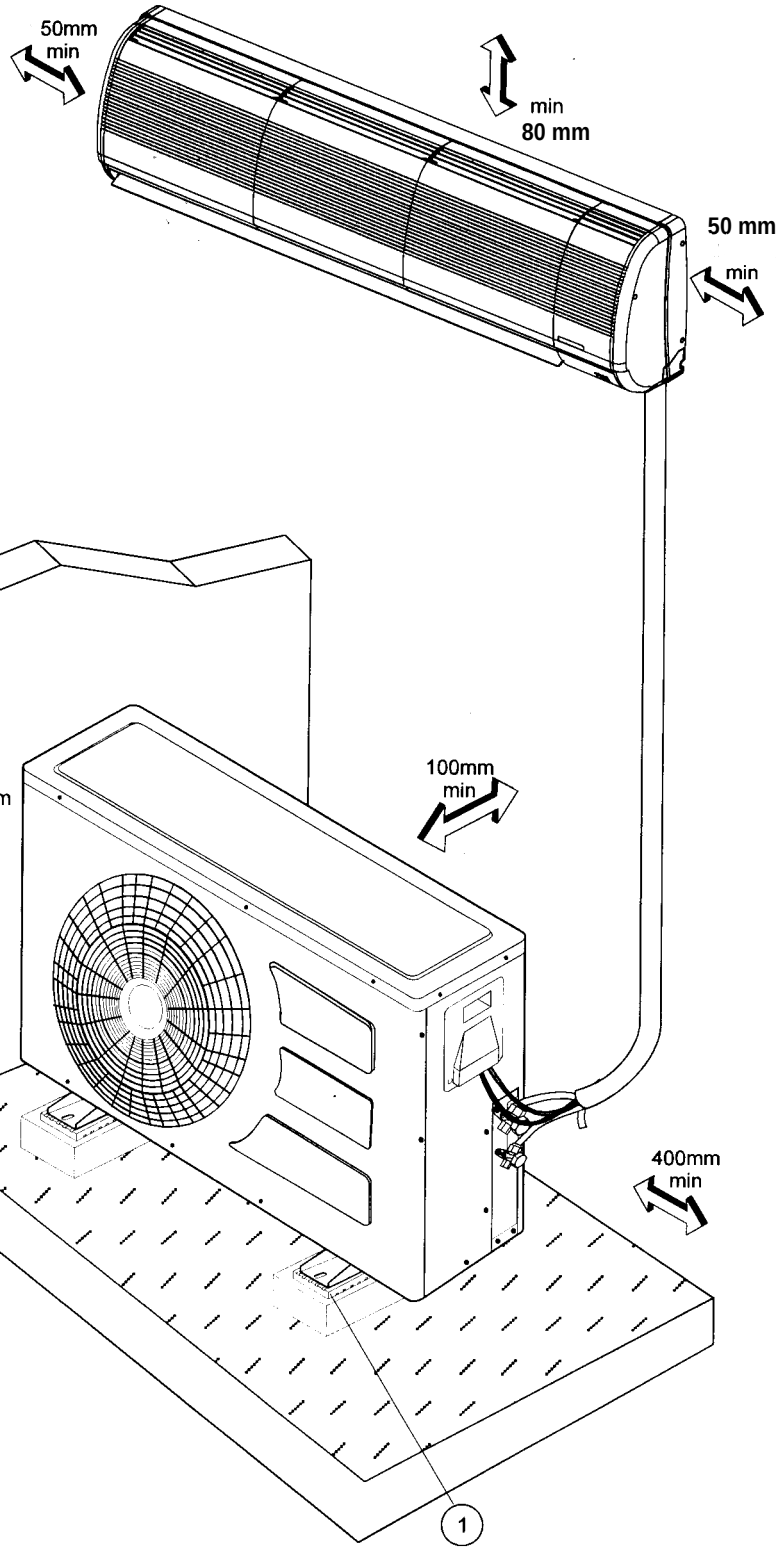


Fig 6

Fig. 6

1. Mounting pads (x4)

Fig. 3

1. To attach

2. To remove

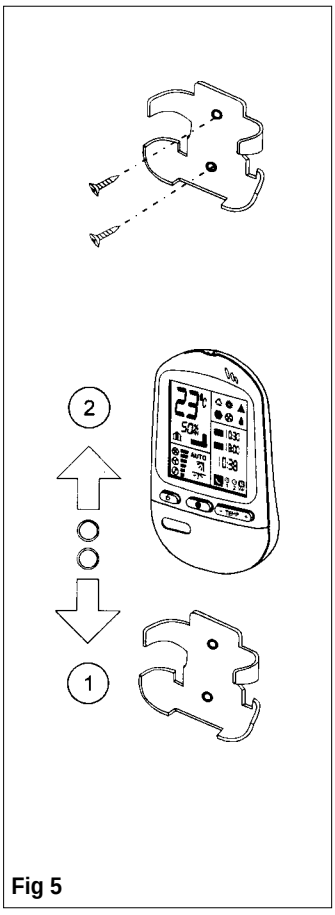


Fig 5

3
ELECTRICAL REQUIREMENTS

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 ±10% of the rated voltage.

4
INSTALLATION OF THE INDOOR UNIT

REMOVAL AND INSTALLATION OF THE FRONT PANEL

1. Open the front panel.
2. Place the horizontal deflection louvers in a horizontal position.
3. Open the screw caps on the panel front.
4. Unscrew the screws to release the front panel.
5. Remove the front panel by lifting it in the direction indicated by arrows.
6. After installation of the indoor unit, reinstall the front panel. Place the top end of the panel onto the top end of the indoor unit, press on the upper part of the panel, and at the same time push the bottom toward the indoor unit.
7. Replace the screws and their caps.

Fig.5
1. Lift front panel
2. Screw caps
3. Screw
4. Horizontal deflection levers
5. Screws
6. Front panel

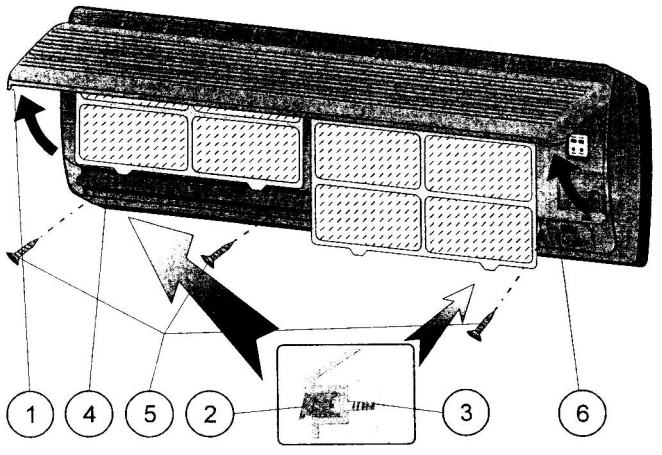


Fig 7

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

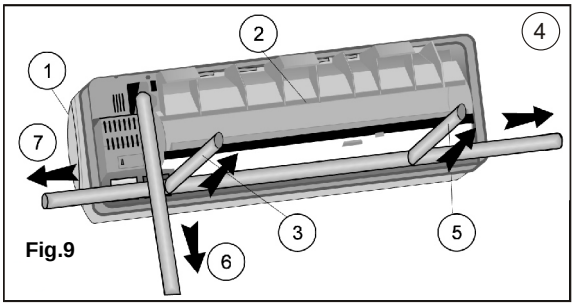


Fig.9

INSTALLATION OF THE MOUNTING PLATE

1. Figure 7 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.

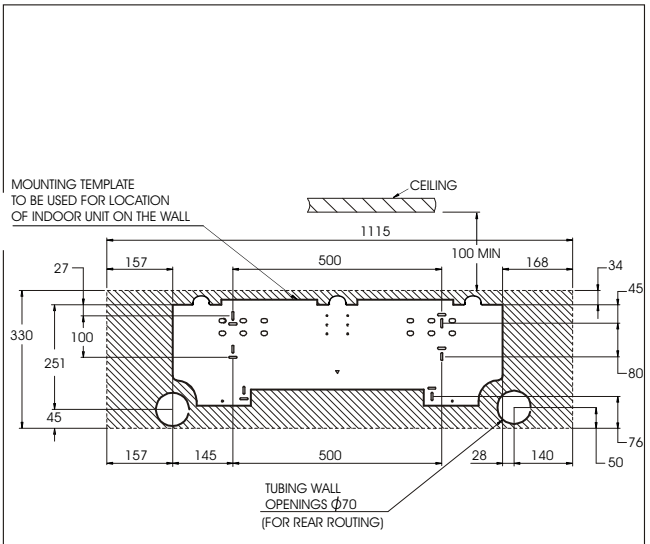


Fig 9

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 Ø70 mm commercial plastic tube.

Fig. 10
A.OUTDOOR SIDE *1.Drill Ø70 mm*
B.INDOOR SIDE *2.Wall*

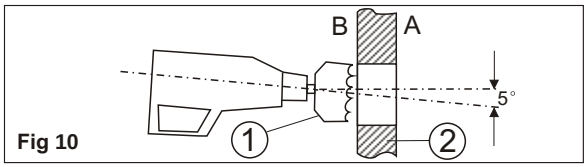


Fig 10

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 mouting 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.11
1.Indoor unit *3.Top hooks*
2.Snap catches *4.Botoon hooks*

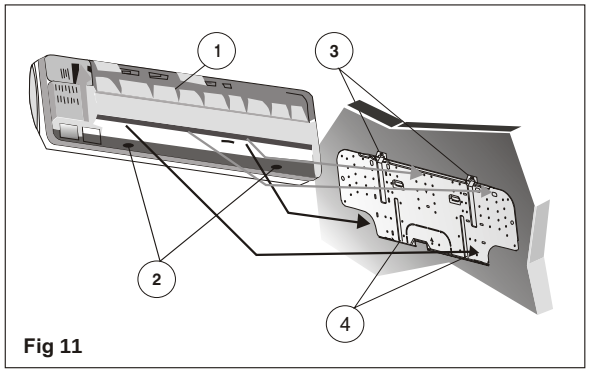


Fig 11

Fig.12
1.Mounting plate *3.Lift up*
2.Lower hook *4.Pull*

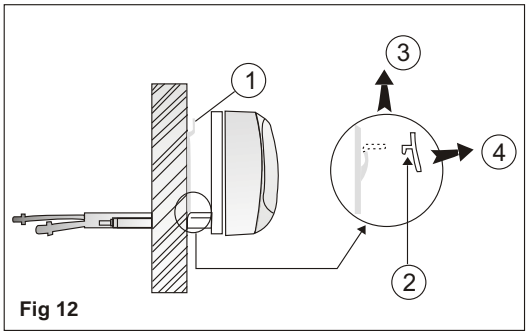


Fig 12

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.

Fig.13
1.Drain hose
2.Clamp
3.Downward slope

3. Ensure that the condensate drain hose is installed at all points in a downward slope manner.

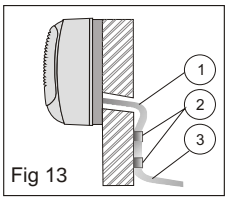


Fig 13

Fig.14
1.Trap
2.U-bend
3.End immersed in water

4. When installing the drain hose avoid traps and U-bends. The end of the drain hose should not be immersed in water.

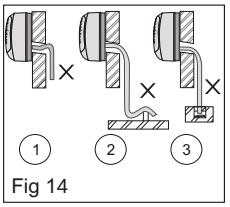


Fig 14

Fig.15
1.Electric calbe
2.Refrigerant tubing
3.Condensate drain hose

5. For a lefthand outlet, lay the drain hose on the bottom of the indoor unit rear groove.

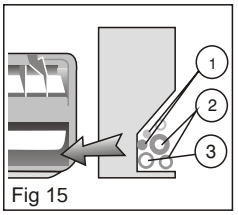


Fig 15

Fig.16
1.Vent
2.Downword 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.

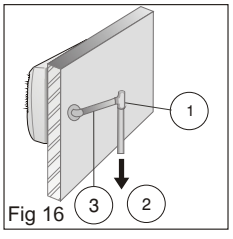


Fig 16

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 (240V, 50Hz)
5 wires x 1.5 mm^2- For units up to 1.8kW input
5 wires x 2.5 mm^2- For units up to 3.5kW input
Twin wire cable
2 wires x 0.5 mm^2 - for low voltage

Cooling only models:
Multiple wire cable (220 - 240V, 50Hz)
4 wires x 1.5 mm^2- For units up to 1.8kW input
4 wires x 2.5 mm^2- For units up to 3.5kW input
Twin wire cable
2 wires x 0.5 mm^2 - for low voltage

2. Prepare inter unit cable ends for connection.
3. Connect the cable ends to the terminals of the indoor and outdoor units, as shown in Fig 20.
   Be sure to match the colored wires with the numbers shown on the indoor and outdoor unit terminal board.
4. Connect the yellow / green ground wire to the ground terminal screw. In the indoor unit, shape a loop and clamp with cable tie, as shown in Fig 20a
5. Secure the multiple wire power cable with the cable clamps.
6. Fasten the twin wire cable to the power cable with cable ties.

Fig. 17
1. Terminal 2. Cover 3. Cable tie

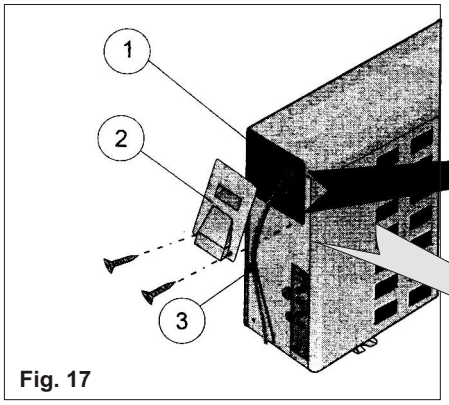


Fig. 17

NOTES:

1. The wire color code can be selected by the installer
2. Wires leading terminal (8) and (9), must be in a separate twin wire cable, otherwise the electronic controls will be subjected to operational malfunctions.
3. For cooling only model, Wire (5) should not be Connected to terminal No 5.
4. In some models the twin wire cable is Factory connected to the indoor unit.

MULTIPLE WIRE POWER CABLE

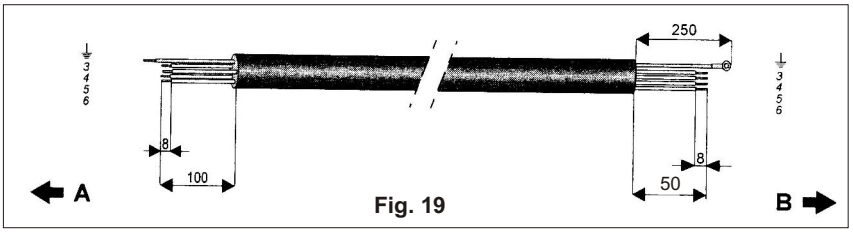


Fig. 19

Fig. 18 A. OUTDOOR B. INDOOR

TWIN WIRE LOW VOLTAGE CABLE

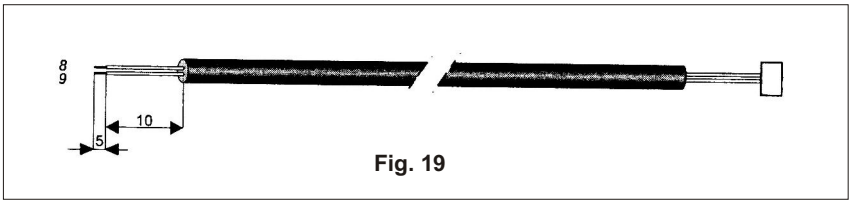
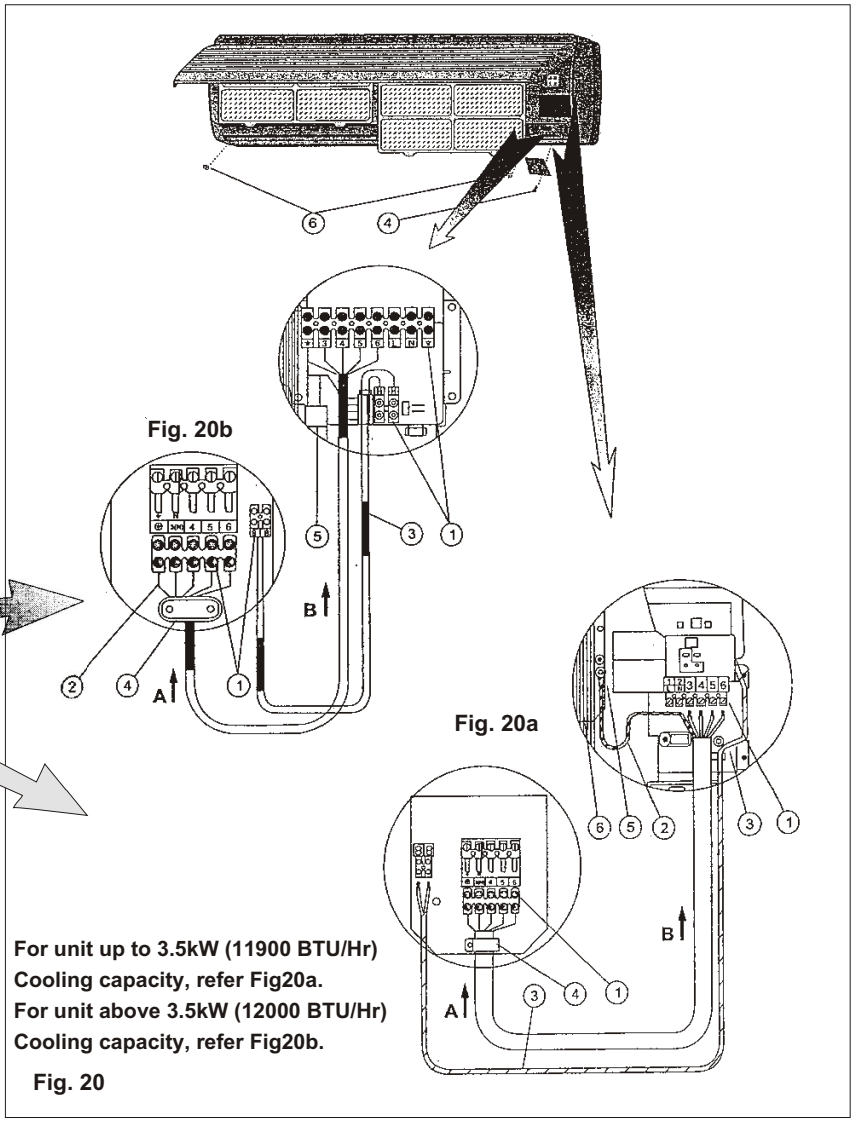


Fig. 19



For unit up to 3.5kW (11900 BTU/Hr) Cooling capacity, refer Fig20a.
For unit above 3.5kW (12000 BTU/Hr) Cooling capacity, refer Fig20b.

Fig. 20

Fig.20
1. Terminal
2. Ground wire
3. Control cable
4. Cable clamp
5. Indoor coil. Screw cover

A. OUTDOOR B. INDOOR

7

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).

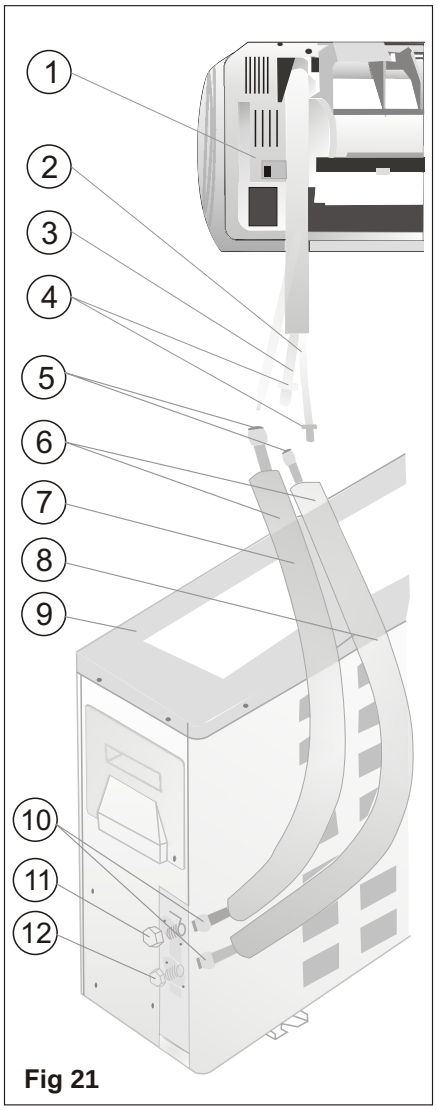


Fig 21

Caution!
When unscrewing the valve caps, do not stand in front of them or the spindles at any time, as the system is under pressure.

Fig.21
1.INDOOR UNIT
2.Liquid tube (small dia.)
3.Suction tube (large dia.)
4.Plugs
5.Flare nuts
6.Tubing insulation
7.Suction tube
8.Liquid tube
9.OUTDOOR UNIT
10.Flare nuts
11.Suction valve (larger)
12.Liquid valve (small)

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.

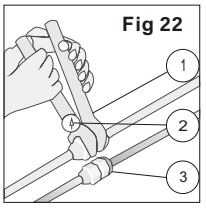


Fig 22

Fig.22
1.Wrench
2.Torque wrench
3.Union

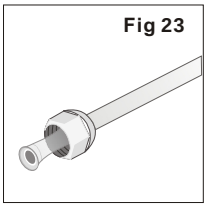


Fig 23

Fig.23
To prevent refrigerant leakage, coat the flared surface with refrigeration oil

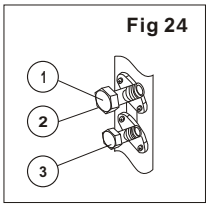


Fig 24

Fig.24
1.Suction valve
2.Service port
3.Liquid valve

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.

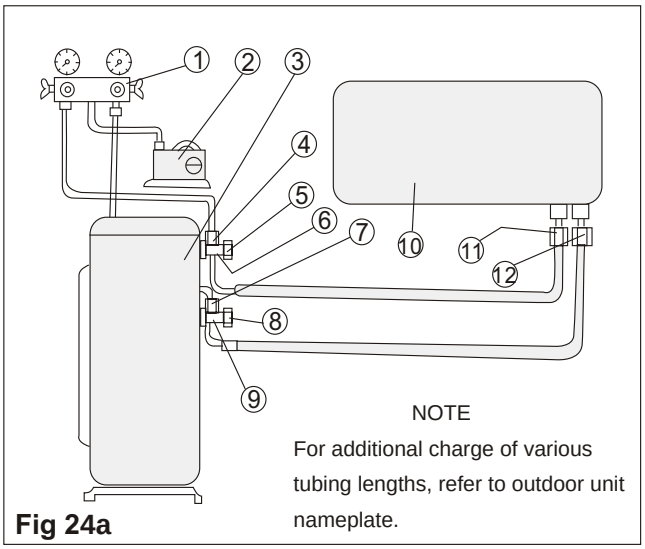


Fig 24a

Fig.24a

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

**In some models only*

8

FINAL TASKS

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	SERVICE / WARRANTY
1800 1800 04	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

Offices on the parkSuite 27, 8 Greenhill Road Wayville SA 5034	TEL: (08) 8372 7866	FAX: (08) 8372 7816

PERTH

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