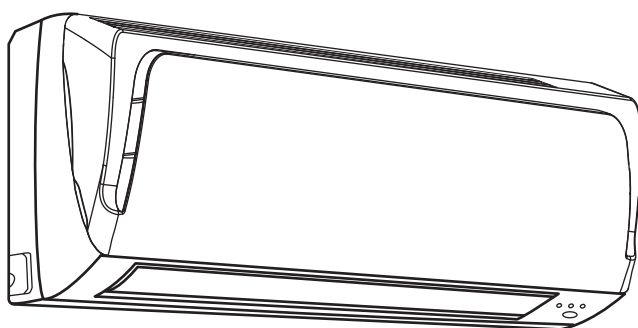
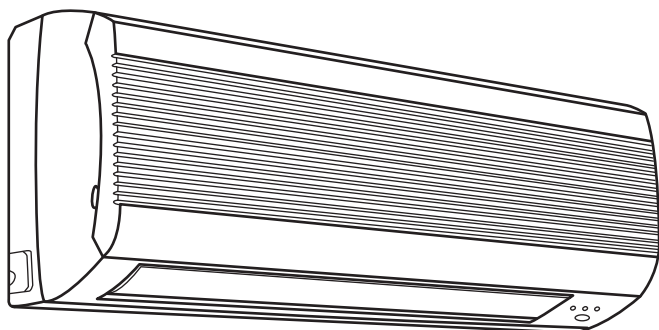
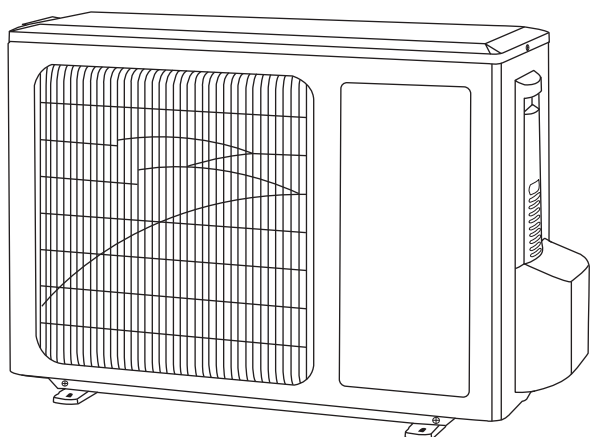


OPERATING AND INSTALLATION MANUAL



SINGLE SPLIT AIR-CONDITIONER
AND HEAT PUMP WITH QUICK
CONNECTOR



R-410A

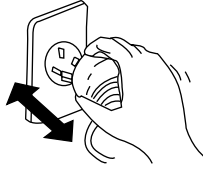
Please carefully read this
manual before operating the
appliance.

U	I	A	Safety standards	2
U	I	A	Identification of the parts	4
U	I	A	Remote control	6
U	I	A	Operating modes	8
U	I	A	AUTO mode	9
U	I	A	TIMER mode	9
U	I	A	DRY mode	10
U	I	A	SLEEP mode	10
U	I	A	Maintenance	11
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	I	A	Installation instructions	13
	I	A	Installation of the indoor unit	15
	I	A	Installation of the outdoor unit	17
	I	A	Installation of the quick connector	18
U	I	A	Note	20
U	I	A	Useful information	20

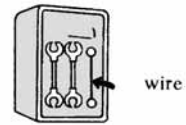
U User I Installer A Service



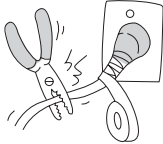
Use the power supply voltage shown on the rating plate. Keep the power switch or plug clean. Connect the power cable correctly and securely to the outlet, avoiding the risk of electric shock or fire due to insufficient contact.



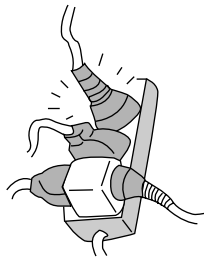
Check that the outlet is suitable for the plug, otherwise have the outlet replaced. Do not use the power switch or pull out the plug to switch the appliance off when operating. This may cause fires due to sparks, etc.



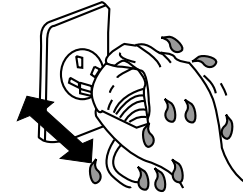
The user must contact qualified personnel to earth the appliance, in compliance with the legislation in force, and to install a thermal-magnetic circuit breaker.



Do not bend, pull or press the power cable, as it may break. Electric shock or fire are usually caused by damaged power cables. The power cable must only be replaced by specialist technicians.



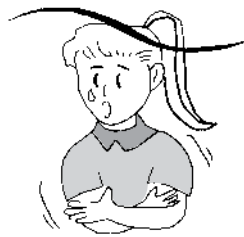
Do not use power supply cables that are too long, or multiple adapters.



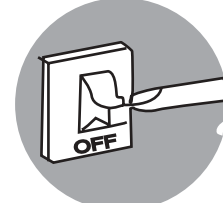
Do not operate the air-conditioner with wet hands; this may cause electric shock.



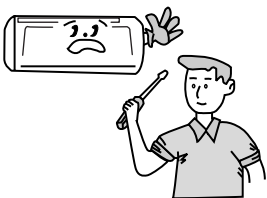
Do not block the air inlet or outlet of either the indoor or outdoor unit.



Extended exposure to cold air is a health risk.



If smoke or a smell of burning is detected, immediately disconnect power and contact the Service Centre.



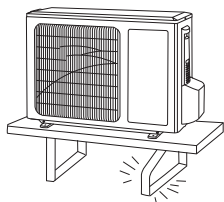
Do not modify or alter the characteristics of the appliance in any way. Contact the Service Centres authorised by the Manufacturer for all repairs. Incorrect repair may cause electric shock, etc.



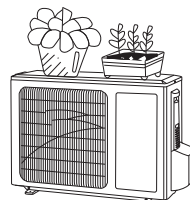
Make sure the appliance is disconnected from the power supply when not used for extended periods, and before performing any cleaning or maintenance operations.



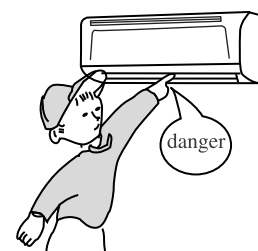
Do not install the appliance in environments where the air may contain gases, oil or sulphur, or near sources of heat.



Check that the base of the outdoor unit is installed securely.



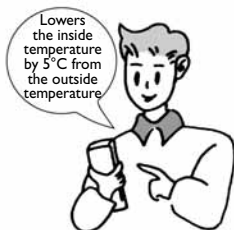
This appliance must only be used by adults; do not allow children to play with the appliance. Do not climb onto or rest objects on the outdoor unit.



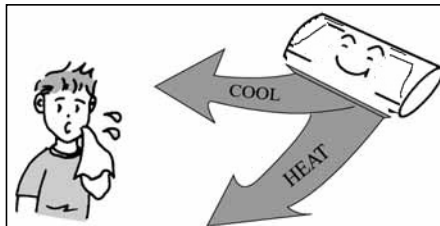
Never insert sticks or tools into the appliance. This may cause injuries.



Keep the appliance at least 50cm from flammable substances (alcohol, etc.) or from pressurised containers (e.g. spray cans).



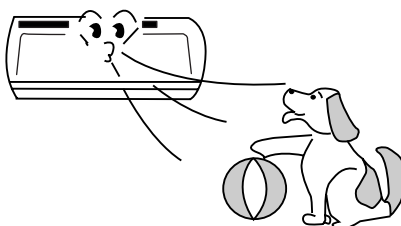
Selecting the most suitable temperature will avoid damaging the appliance.



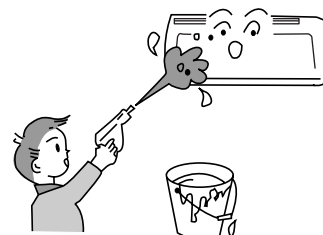
The direction of air flow must be adjusted correctly. The louvers must be adjusted downwards in heating mode, and upwards in cooling mode.



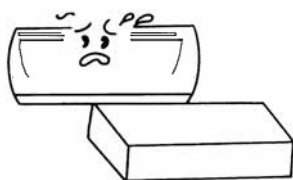
Do not leave doors and windows open when the air-conditioner is operating for long periods.



Do not aim the air stream directly at plants or animals.



Do not spray water onto the air-conditioner.



This appliance has been designed to air-condition the home and must not be used for other purposes, such as drying clothes, cooling food, etc.



If the appliance is used in areas without the renewal of fresh air, precautions must be taken to prevent any leaks of refrigerant gas from stagnating in the environment and creating the risk of fire.



Do not rest heavy or hot objects on the appliance.



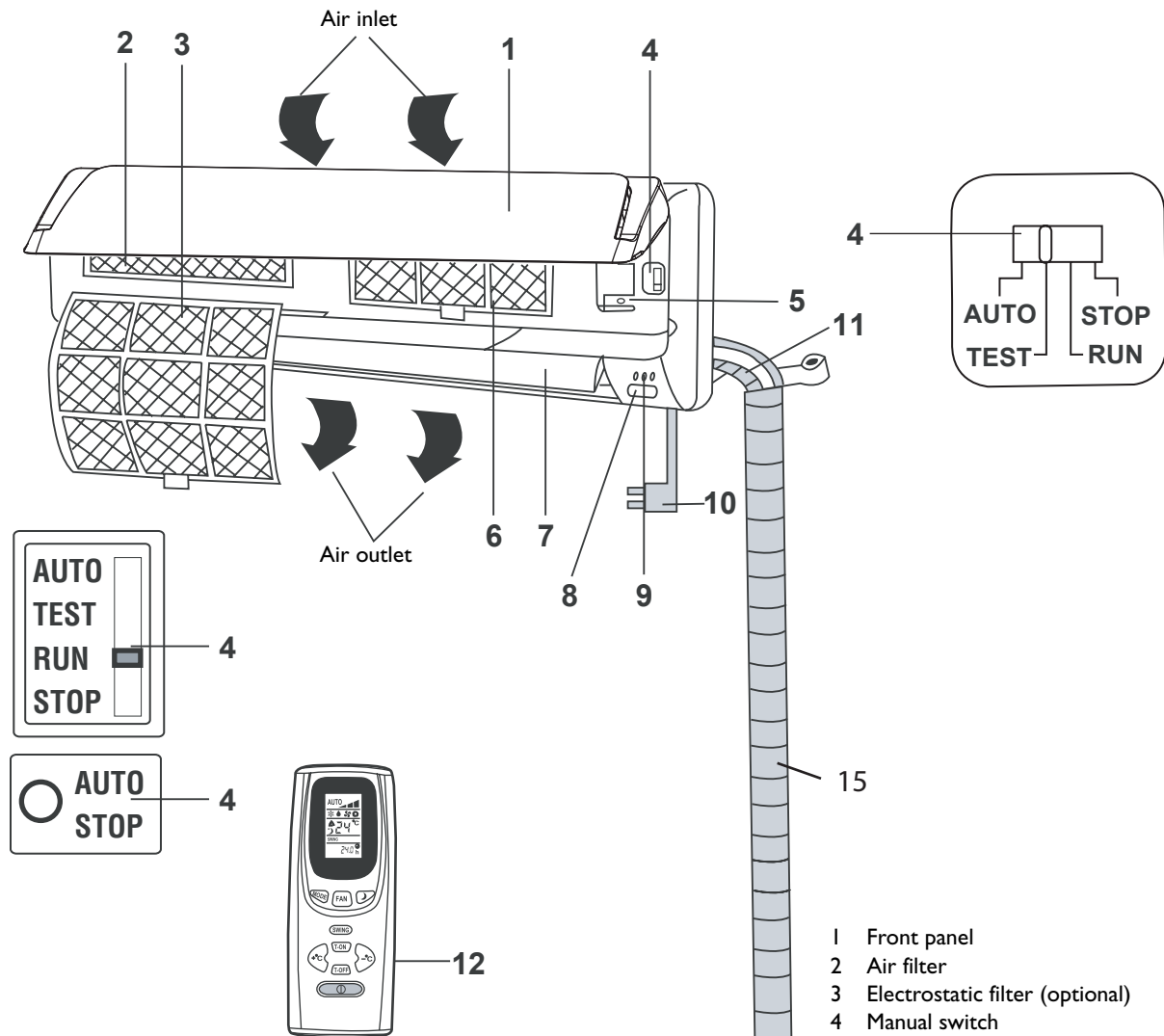
The packing materials are recyclable. It is therefore recommended to place them in suitable containers for separate waste disposal. At the end of its working life, take the air-conditioner to a special waste disposal centre.



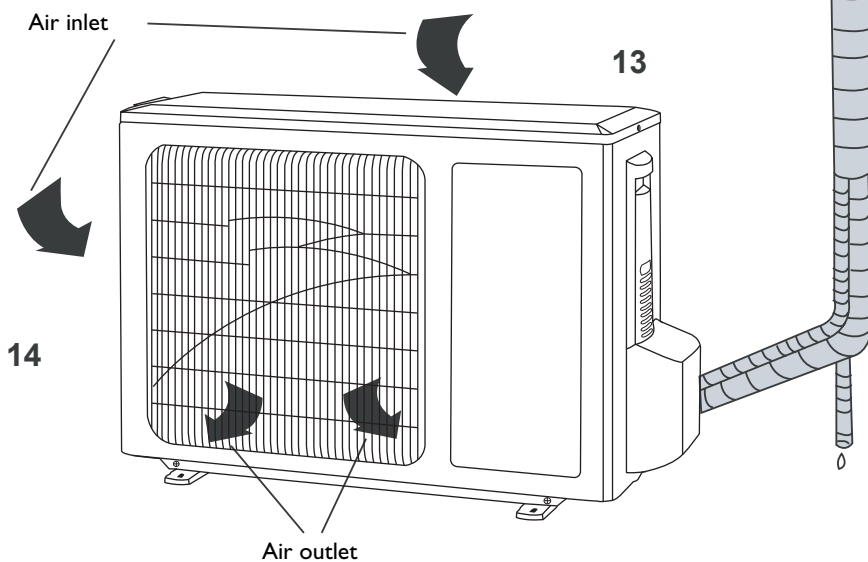
Only use the air-conditioner as shown in this booklet. These instructions are not intended to cover every possible situation that may arise. Common sense and prudence must be applied in the installation, operation and conservation of all household appliances.

※ Working temperature range		
	Indoor side DB (°C)	Outdoor side DB (°C)
Maximum cooling	36	45
Minimum cooling	16	18
Maximum heating	30	27
Minimum heating	16	-10


INDOOR UNIT



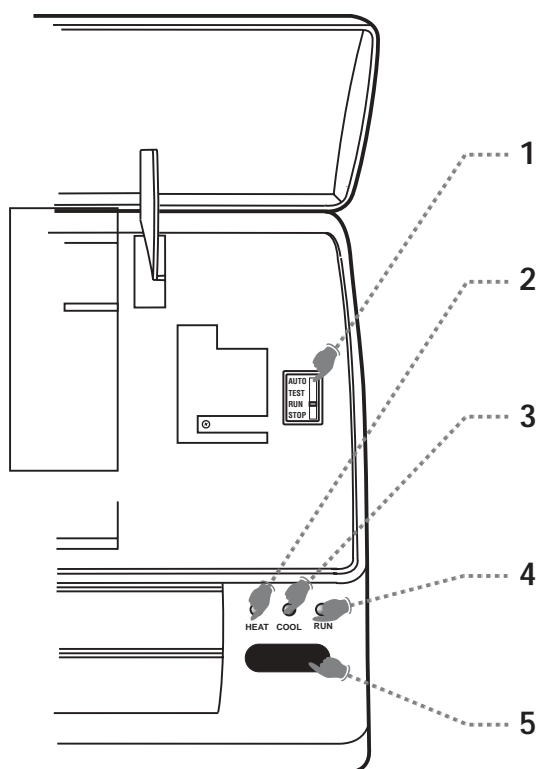
OUTDOOR UNIT



- 1 Front panel
- 2 Air filter
- 3 Electrostatic filter (optional)
- 4 Manual switch
- 5 Cable panel
- 6 Activated carbon filter
- 7 Louvers
- 8 Signal receiver
- 9 LED display
- 10 Power plug
- 11 Drain hose
- 12 Remote control
- 13 Handle
- 14 Air outlet grill
- 15 Flexible 4 meter pre-charged pipe length quick connection system

 The above figure represents a simplified layout of the appliance and may not correspond to the appearance of the unit actually purchased.

OPERATION AND DISPLAY



1. Manual switch

This is used to start the appliance if the remote control is not working.*

2. Heating indicator

This comes on when the appliance is in heating mode.

3. Cooling indicator


This comes on when the appliance is in cooling mode.


4. Operation indicator


This comes on when the appliance is operating.

5. Signal receiver

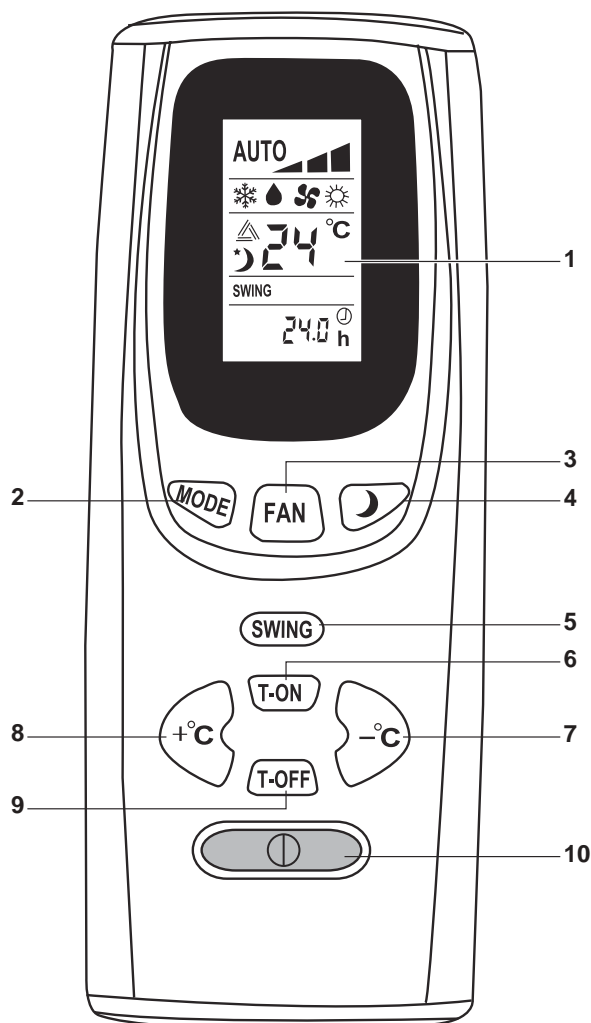
Receives the signals from the remote control.

 The shape and the position of the switches and indicators may change according to the model, however their functions remain the same.

 Power on when grill open.

 *This operation must be carried out by specialist technicians.

The remote control sends signals to the appliance.



1. **Liquid crystal display**
Displays all the operating modes.
2. **MODE button**
Used to select the operating mode.
3. **FAN button**
Used to set the fan speed, in sequence, to automatic, low, medium, high.
4. **SLEEP button**
Used to set or cancel SLEEP mode.
5. **SWING button**
Used to start or stop the movement of the vertical louvers.
6. **TIMER ON button**
When the appliance is off, this button is used to switch the air-conditioner on automatically.
- 7-8. **ROOM TEMPERATURE SETTING buttons**
Used to set the room temperature.
9. **TIMER OFF button**
When the appliance is on, this button is used to switch the air-conditioner off automatically.
10. **⏻ button**
Used to switch appliance on or off.

Meaning of the symbols shown on the liquid crystal display:


- AUTO** Automatic fan speed
- ▬ Low fan speed
 - ▬▬ Medium fan speed
 - ▬▬▬ High fan speed
 - ❄ Cooling indicator
 - 💧 Dehumidification indicator
 - 🌀 Fan only operation indicator
 - ☀ Heating indicator
 - ⚙ Automatic mode indicator
 - 🌙 SLEEP indicator
 - SWING** Louver swing indicator



The display on the remote control remains on even when the unit is off.

HOW TO FIT THE BATTERIES

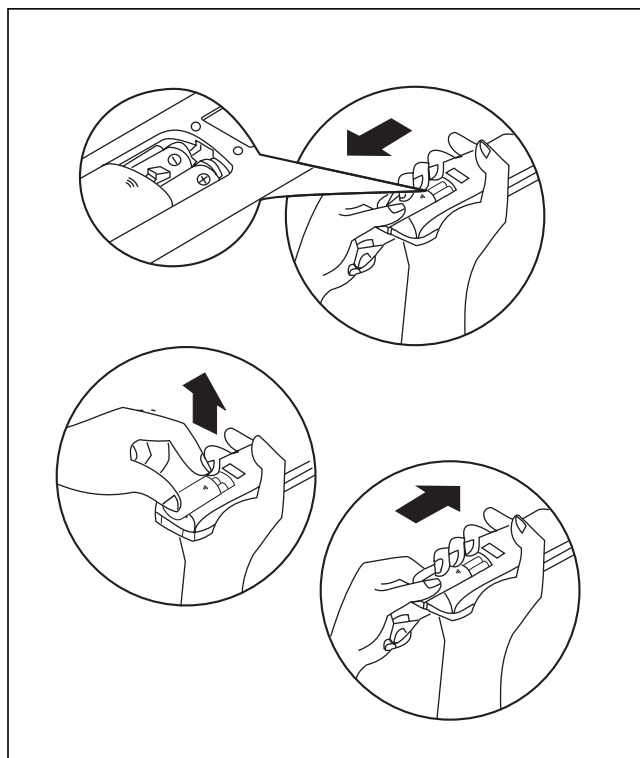
- Remove the cover of the battery compartment in the direction of the arrow.
- Fit the new batteries, making sure the (+) and (-) signs on the battery match correctly.
- Put the cover back on by sliding it into position.

 Use 2 x R03 AAA (1.5 V) batteries. Do not use rechargeable batteries.

Replace the used batteries with new batteries of the same type when the display is no longer visible.

The batteries last around one year.

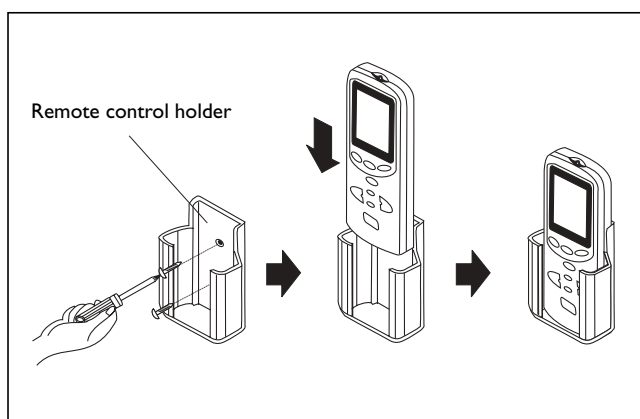
The batteries in the remote control must be disposed of appropriately according to the legislation in force in the country concerned.



TIPS ON STORING AND USING THE REMOTE CONTROL


The remote control can be stored in a special support mounted on the wall.

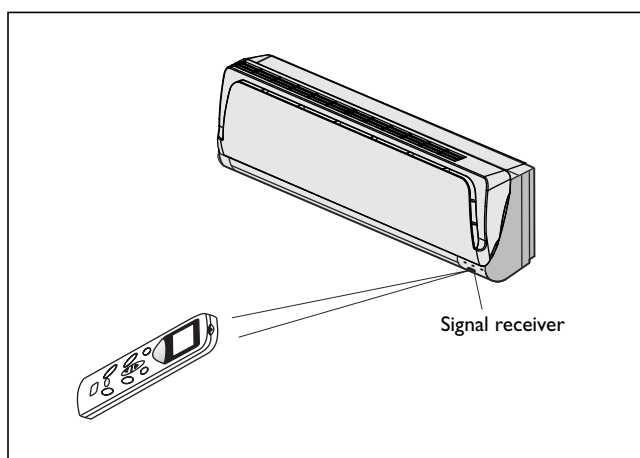
 The remote control holder is standard



HOW TO USE THE REMOTE CONTROL

To switch the air-conditioner on, aim the remote control towards the signal receiver. The remote control will work at a distance of up to 8 metres from the indoor unit.

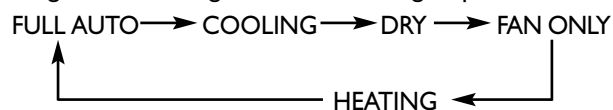
 Store the remote control at least 1m from television sets or other electrical appliances.



OPERATING MODES

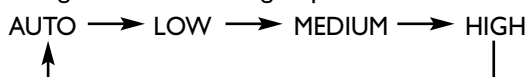
1. Selecting the operating mode

Each time that the **MODE** button is pressed the operating mode is changed, in the following sequence:



2. FAN mode

Each time that the **FAN** button is pressed, the speed is changed, in the following sequence:



3. Setting the temperature

Press once to **increase** the set temperature by 1°C.

Press once to **decrease** the set temperature by 1°C.

Range of temperature settings available:

HEATING	16°C ~ 30°C
COOLING	16°C ~ 30°C
DEHUMIDIFICATION	16°C ~ 30°C
FAN ONLY	no setting allowed

4. Starting the appliance

Press the button .

When the unit is switched on it will start operating in the mode selected prior to being switched off.

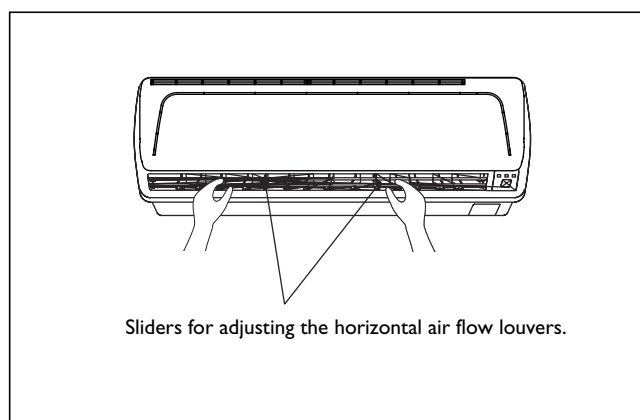
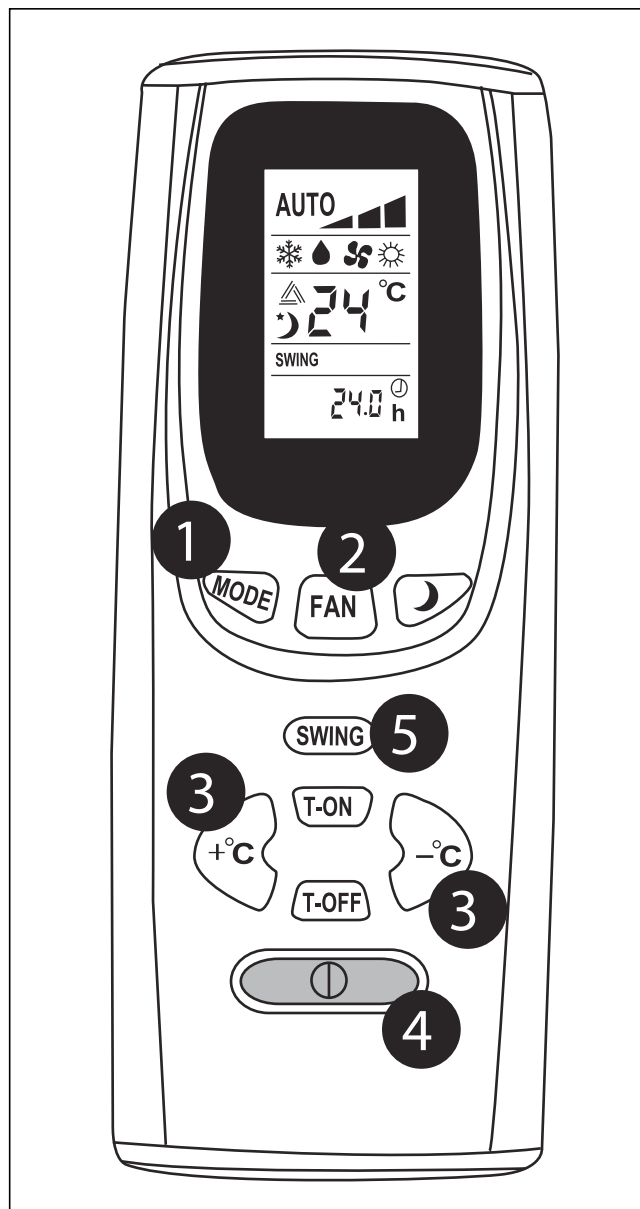
5. Adjusting the air flow

Pressing the “**SWING**” button starts moving the air flow louvers start automatically; pressing the “**SWING**” button again stops the louvers.

Do not move the vertical air flow louvers manually, as this may cause poor operation. If this happens, first turn the appliance off, then disconnect and reconnect it to the power supply.


Adjusting the horizontal air flow (manual)

Turn the louver sliders for the horizontal adjustment of the air outlet to change the angle of the air flow, as shown (the unit illustrated may be different from the air-conditioner you have purchased).



This operation must be carried out by specialist technicians.

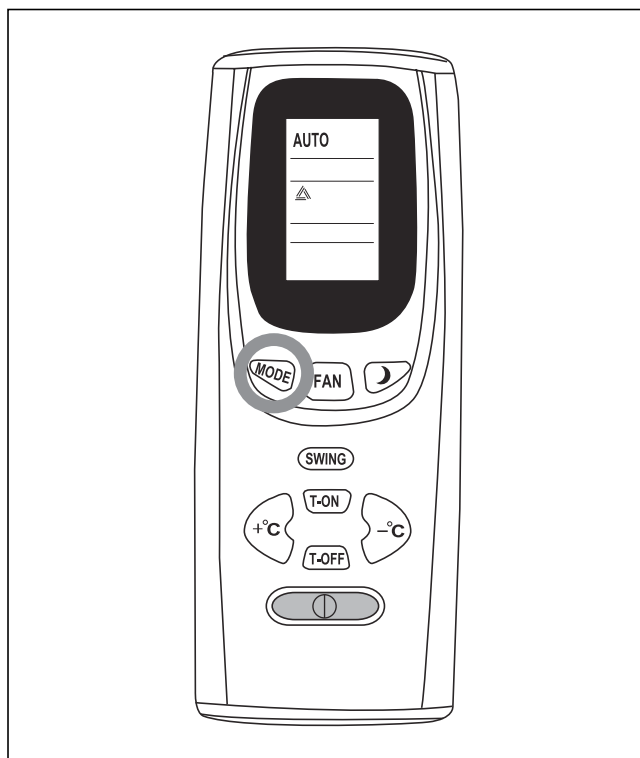
AUTO OPERATING MODES

Press the **MODE** button until displaying **AUTO** (); in this mode, the temperature and the fan speed are set automatically based on the actual room temperature.

The operating mode and the temperature setting depend on the room temperature.

In AUTO mode, the pre-set temperature is 25°C in cooling mode, while the fan speed may change.

Room temperature	Mode
23°C ~ 26°C	FAN ONLY
higher than 26°C	COOLING
Lower than 23°C	HEATING



AUTOMATIC START

After having switched the appliance off, press the **T-ON** button to set the time you want the air-conditioner to switch back on; pressing the T-ON button again increases the time by 30 minutes, until a maximum of 24 hours from when the **TIMER** is set.

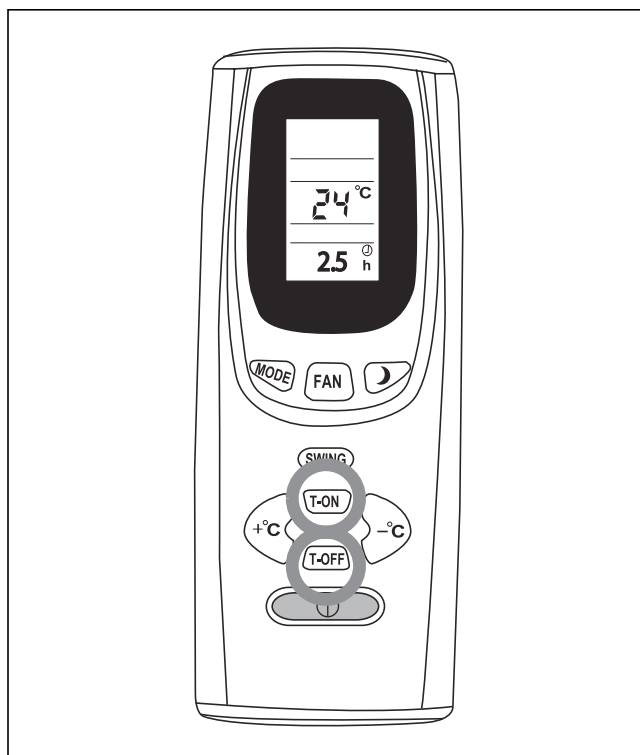
*E.g.: If the setting is performed at 4 p.m. and the **TIMER** is set to 2.5h, the appliance will start at 6.30 p.m.*

When the unit is switched on it will start operating in the mode selected prior to being switched off.

AUTOMATIC STOP

When the appliance is on, press the **T-OFF** button to set the time you want the air-conditioner to switch off; pressing the T-ON button again increases the time by 30 minutes, until a maximum of 24 hours from when the **TIMER** is set.

*E.g.: If the setting is performed at 8.30 p.m. and the **TIMER** is set to 3.5h, the appliance will switch off at midnight.*

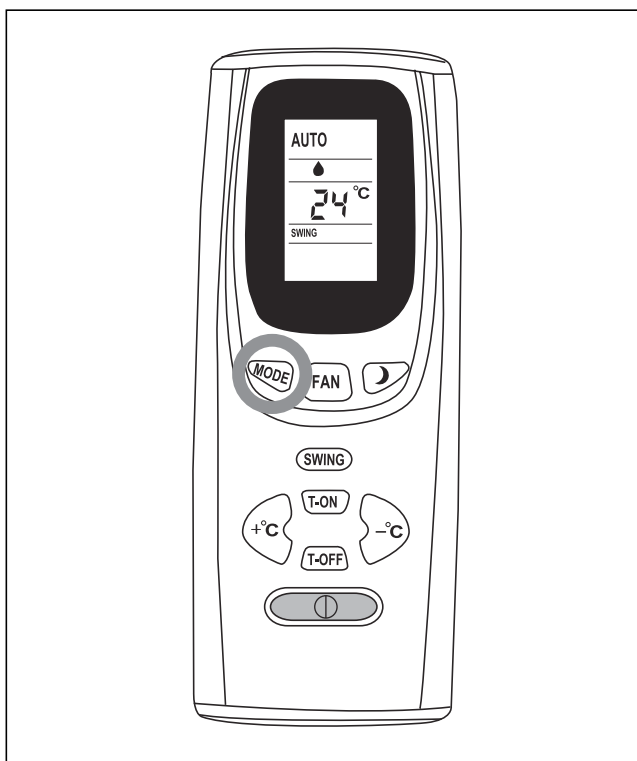


DEHUMIDIFICATION MODE

Press the **MODE** button until displaying the **DRY** (💧) mode.

The appliance will start according to the room temperature and the set temperature:

- If the room temperature is lower than the set temperature, the compressor, the outdoor unit and the indoor unit will stop.
- If the room temperature is within $\pm 2^{\circ}\text{C}$ of the set temperature, the appliance will start in dehumidification mode.
- If the room temperature is more than 2°C above the set temperature, the appliance automatically starts in cooling mode.



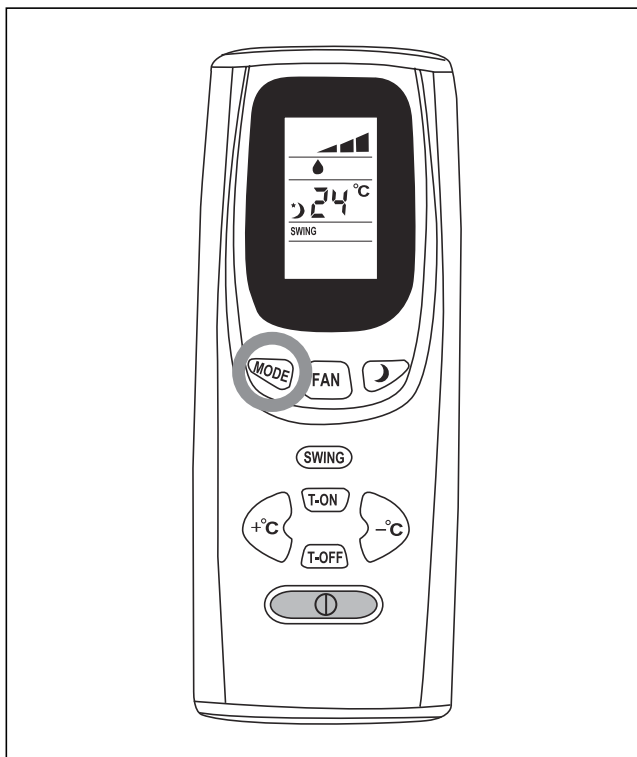
SLEEP MODE

SLEEP MODE

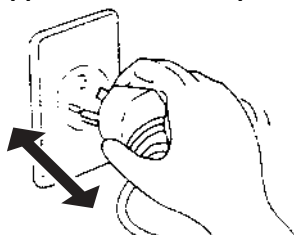
Press the **MODE** button until displaying the **COOL** (❄) or **DRY** (💧) mode.

To set the requested temperature.

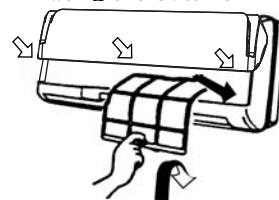
Press the **SLEEP** (🌙) button: the set temperature will be increased by 1°C in one hour and 2°C in two hours. The appliance will then hold the temperature until switching off (after 6 hours).



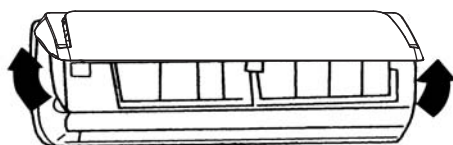
Unplug the appliance from the power outlet



Replace the filters with the side marked as "FRONT" facing the outside



To remove the front panel, pull it outwards, as shown by the arrows in the figure



Installation of the activated carbon filters*

- Remove the air filters
- Remove the new filters from the packaging
- Insert them in the special slots
- Reposition the air filters



Clean with a soft damp cloth, using water or detergent, then dry in the shade.

Never use water at temperatures above 45°C, as the panel may be deformed or fade in colour.

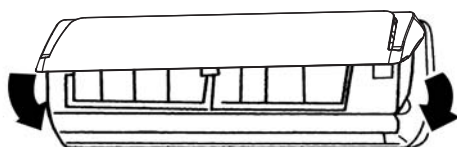


The air filters should be cleaned every 3 weeks

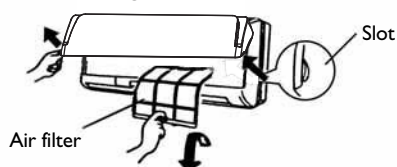
⚠ These operations must be performed by specialist technicians.

*The carbon filters can't be washed.

Insert the front panel as shown by the arrows in the figure

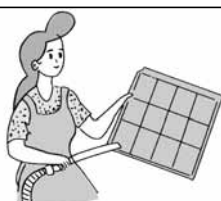


Cleaning the air filters



Open the front panel, grip the filter and lift it slightly, then remove it.

Never use water at temperatures above 45°C, as the panel may be deformed or fade in colour.

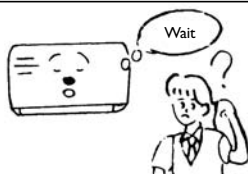


To remove dust from the filter, use a vacuum cleaner or wash the filter in water and then leave it to dry in the shade.

FAULT

POSSIBLE CAUSE

The appliance doesn't work



- Once switched off the air-conditioner cannot be started for around 3 minutes

Strange smell



- This smell may come from other sources, such as furniture or the like.

Sound of running water



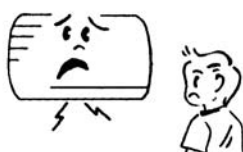
- This derives from the flow of refrigerant in the air-conditioner, and is not a fault.

Sprays of atomised water from the air outlet



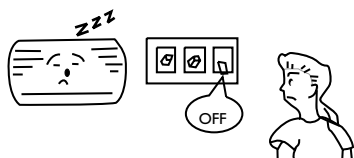
- This occurs when the air in the room cools down very quickly, for example in "COOLING" or "DEHUMIDIFICATION" mode.

Strange noises can be heard



- This noise is produced by the expansion or contraction of the front panel due to the thermal variations, and does not indicate a problem.

The appliance doesn't work



- Are the protection devices or fuses faulty?
- Have the connections come loose or the cable unplugged?
- At times operation is stopped to protect the appliance.
- Is the voltage above 244V or below 206V?
- Is the TIMER-ON functions active?

Insufficient cold or hot air produced



- Is the temperature suitably set?
- Are the outlets and inlets of the air-conditioner blocked?
- Is the air filter dirty?
- Is the fan speed set to the minimum?
- Are there other sources of heat in the room?

The appliance does not respond to the remote control



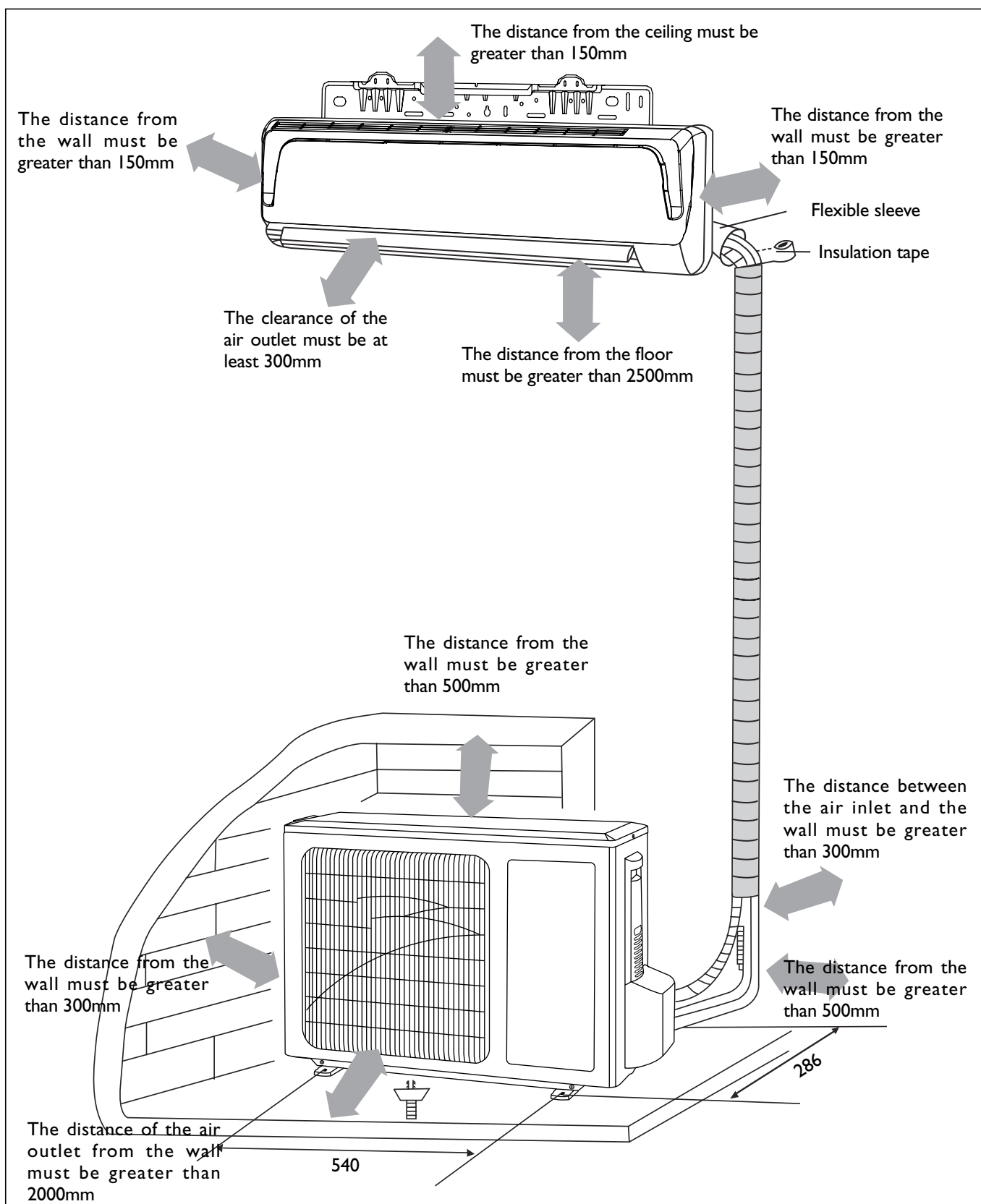
- Is the remote control near the indoor unit?
- Are the batteries in the remote control flat?
- Are there obstacles between the remote control and the signal receiver on the indoor unit?

Immediately switch off the air-conditioner and disconnect the power supply in the event of:



- Strange noises during operation.
- Faulty fuses or switches.
- Sprays of water or objects inside the appliance.
- Hot cables or plugs.
- Very strong smell coming from the appliance.

INSTALLATION DIAGRAM



The above figure represents a simplified layout of the appliance and may not correspond to the appearance of the unit actually purchased.

SELECTING THE BEST SITE

Suitable places for installation of the indoor unit

- Absence of obstacles near the air outlet so that the air can flow freely around the room.
- Places where it is easy to make holes in the wall and lay the pipes.
- Observe the distances from the ceiling and from the wall indicated in the wiring diagram.
- Places where the air filter can be removed easily.
- Place the unit and the remote control 1 metre or more from television sets, radios, etc.
- Keep the appliance as far away as possible from fluorescent lamps, to prevent harmful effects.
- Do not place objects near the air inlet, so as not to block it.
- In a site that can support the weight and not increase the operating noise and vibrations.
- The appliance shall not be installed in the laundry.

■ **Minimum installation height of the indoor unit (Min. 2.5m).**

Places suitable for the installation of the outdoor unit

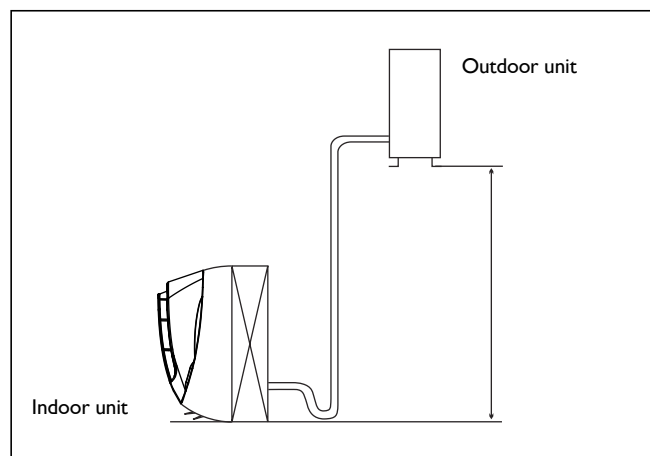
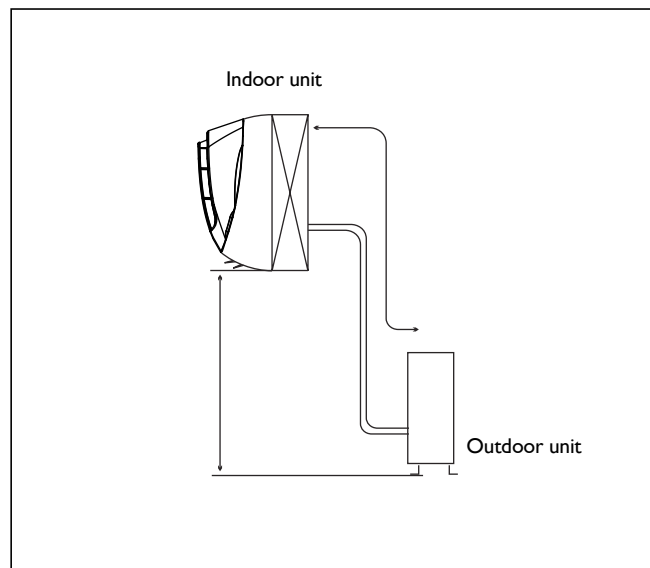
- Install the unit in a suitable and well-ventilated site; avoid installing it in places where there are possible leaks of combustible gases.
- Observe the distance indicated from the wall.
- Do not install the outdoor unit in areas that are dirty or greasy, near gas emissions from vulcanisation or very salty sea areas.
- Avoid installing the unit on the side of a road where it may come into contact with muddy water.
- On a fixed base that does not increase the operating noise.
- In a place where the air outlet is not blocked.

■ **The unit must not be started before having been completely assembled in its place of operation.**

The installation and maintenance of the equipment must be carried out exclusively by qualified technicians.

The appliance must be installed according to the legislation in force in the country concerned.

Before starting the appliance, check that it is correctly earthed, according to the legislation in force in the country concerned.



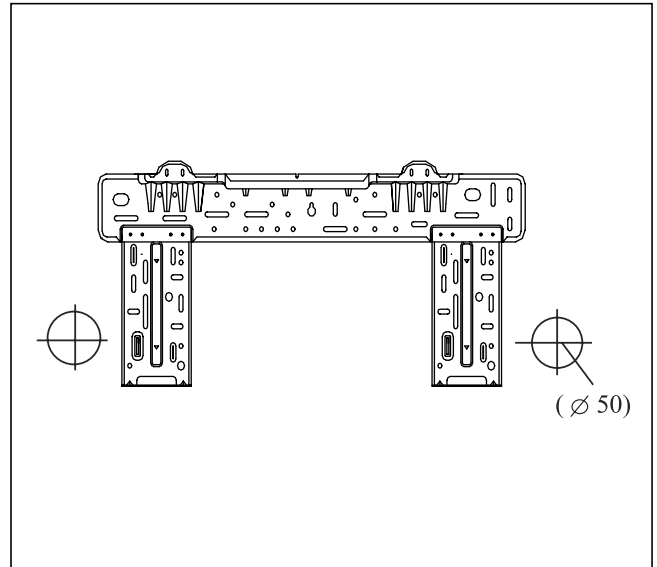
1. INSTALLATION OF THE FASTENING PLATE

Select the position for installing the fastening plate, according to the location of the indoor unit and the layout of the pipes.

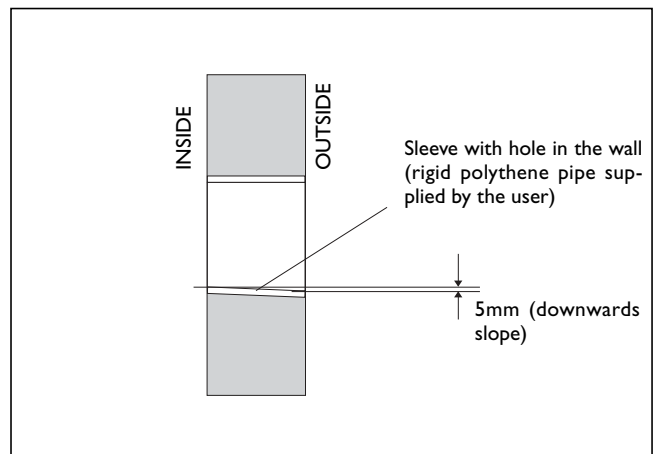
Adjust the level of the fastening plate, using a straight-edge or a plumb line.

Make 32mm deep holes in the wall to mount the plate. Insert the plastic plugs in the holes, then secure the fastening plate using the self-threading screws supplied with the unit.

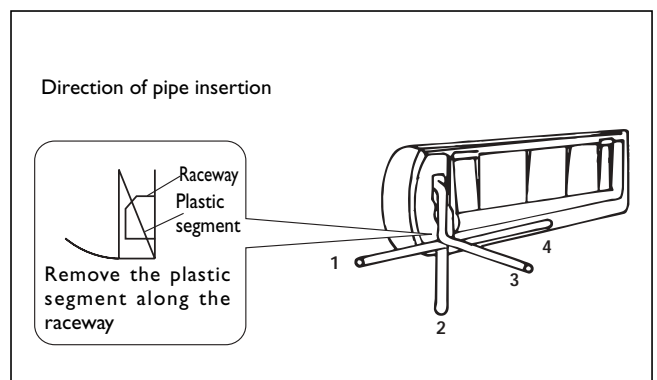
Check that the fastening plate is securely fitted so as to support a 60kg adult.



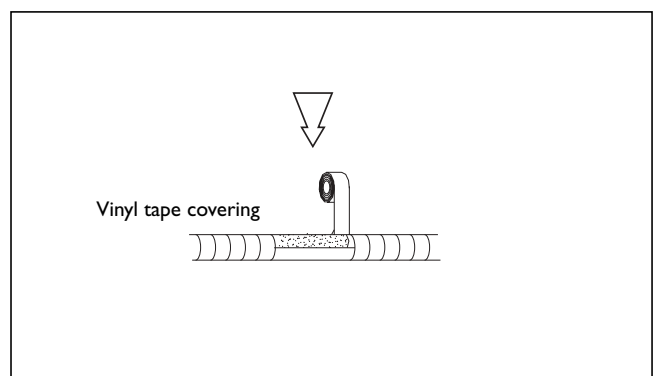
! Your fastening plate may differ from the one described above, yet the installation procedure is the same.



! When the pipe is fastened along the direction 1, 2 or 4, remove the corresponding plastic segment from the base of the indoor unit.



! Line the joints of the pipe with thermal insulation and cover them with vinyl tape.




 **The drain hose must be supplied by the user.**

- The drain hose must run downwards, to assist drainage.
- Do not bend the drain hose, allow it to protrude, twist it or immerse the end in water. If the drain hose is connected to an extension, check that this is thermally insulated when running in the indoor unit.
- If the pipes run to the right, the pipes, the power cable and the drain hose must be thermally insulated and fastened to the rear of the unit by a pipe coupling.
 1. Insert the pipe coupling in the opening.
 2. Press the pipe coupling to secure it to the base.

CONNECTING THE CABLE

Indoor unit

Connect the power cable to the indoor unit by connecting the wires to the terminals on the control panel individually, according to the connection to the outdoor unit.

 **To make the connection to the indoor unit terminal, remove the console.**

Outdoor unit

Remove the access door from the unit by loosening the screw. Connect the wires to the terminal on the control panel with a terminal screw.

Place the access door back in position and tighten the screw.

Use an approved switch between the power supply source and the unit. An isolating device must be fitted to correctly disconnect all the power supply lines.

Use a separate power supply circuit specifically for the air-conditioner. For details on the wiring method, refer to the circuit diagram inside the access door.

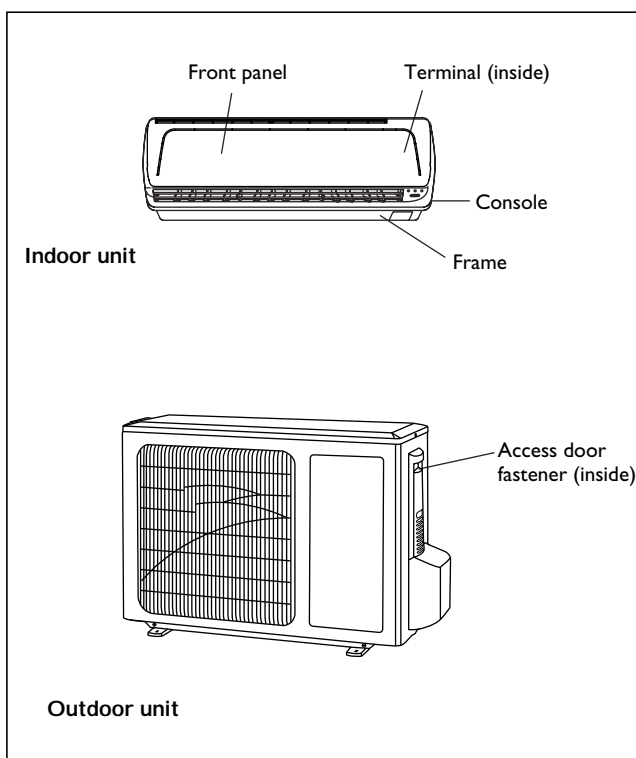
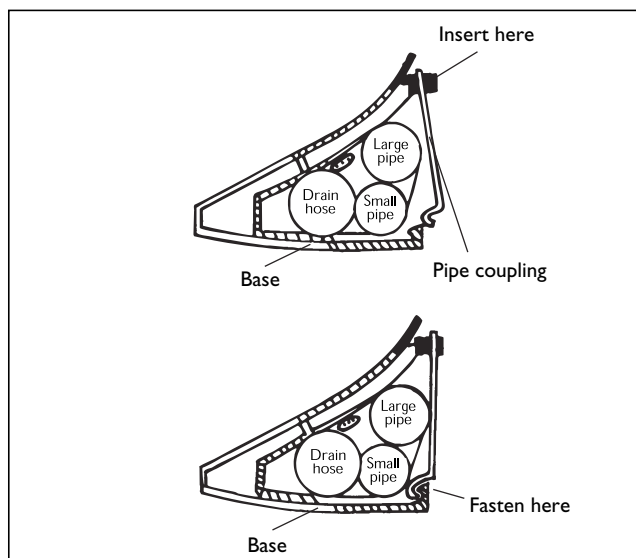
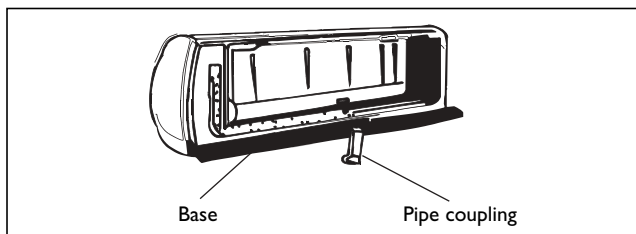
Check that the thickness of the cable complies with the specifications of the power supply.

Check the wires and make sure that they are all securely fastened following the connection of the cable.

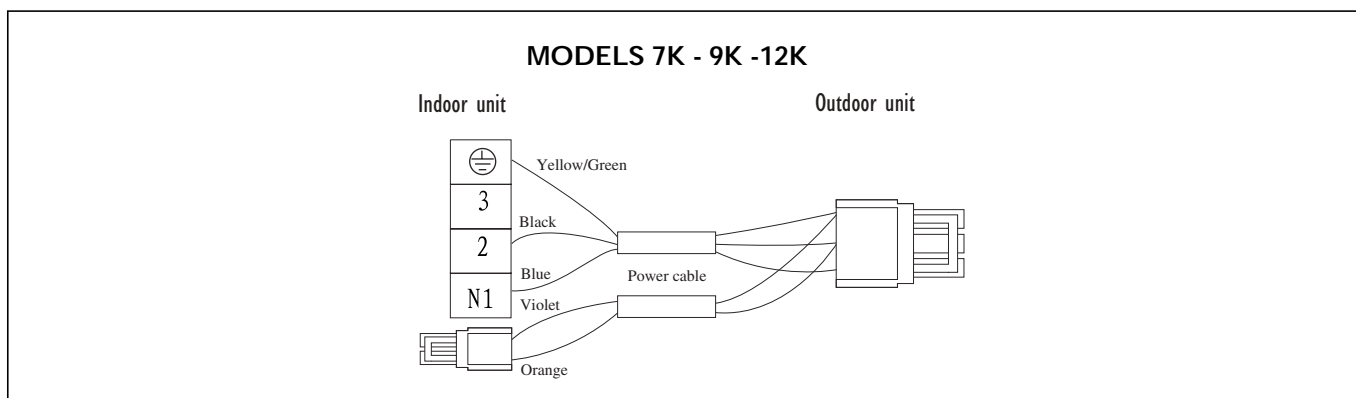
Make sure an earth leakage switch is installed in wet or damp areas.

The connection cable between the outdoor and indoor unit must be suitable for outdoor use.

The plug must remain accessible following the installation of the appliance, so that the appliance can be unplugged if required. If this is not possible, connect the appliance to a two-pole switch, with a distance between the contacts of at least 3mm, which must be installed in an accessible position.



CONNECTION DIAGRAM



- ✎ Check that the colours of the connections on the outdoor unit and the terminal block are not the same as those on the indoor unit.
- ✎ All the electrical connections must be performed by specialist technicians, in accordance with the legislation in force in the country concerned.

I A

INSTALLATION OF THE OUTDOOR UNIT

1. Install the drain fitting and the drain hose (heat pump model only)

The condensate is drained from the outdoor unit when the appliance operates in heating mode. To avoid disturbing neighbours and to respect the environment, install a drain fitting and a drain hose to convey the condensate. Simply install the drain fitting and the rubber washer on the chassis of the outdoor unit, then connect a drain hose as shown in the figure.

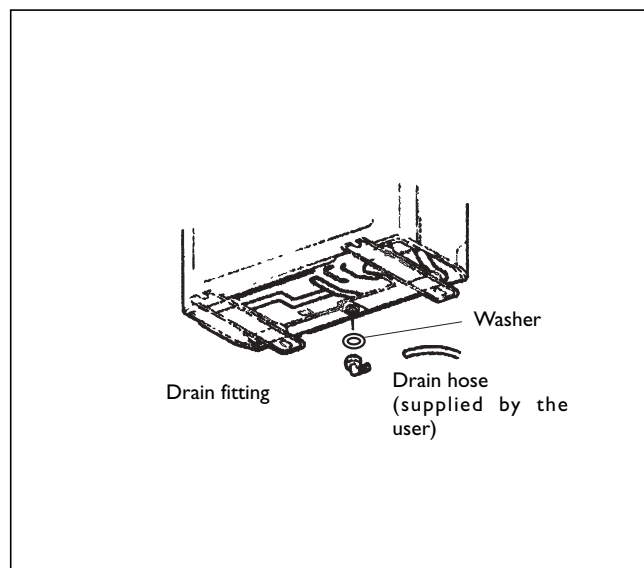
2. Installation and fastening of the outdoor unit

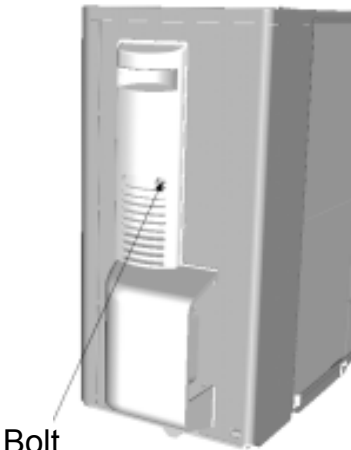


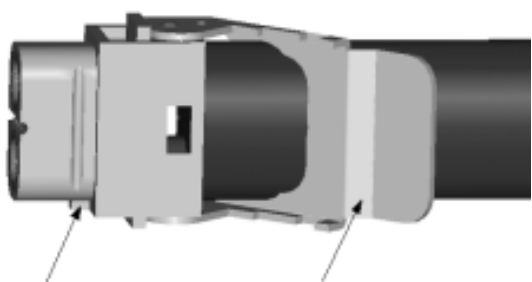
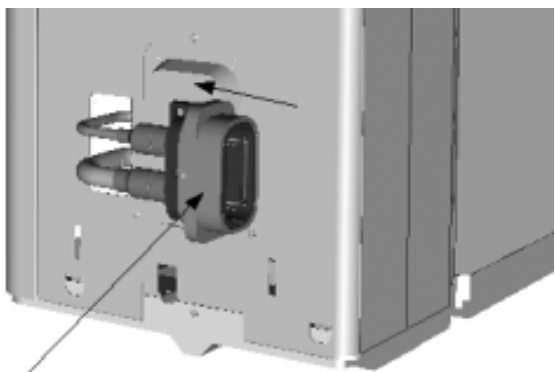
Bolt the unit securely to a level and sturdy floor. If the unit is to be installed on a wall or on the roof, make sure the support is fastened securely to prevent it from moving following intense vibrations or strong winds.

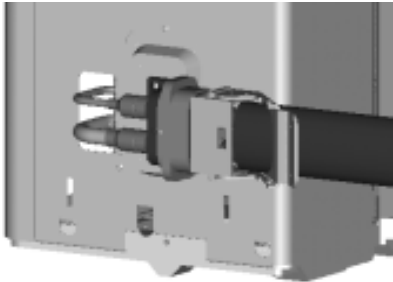
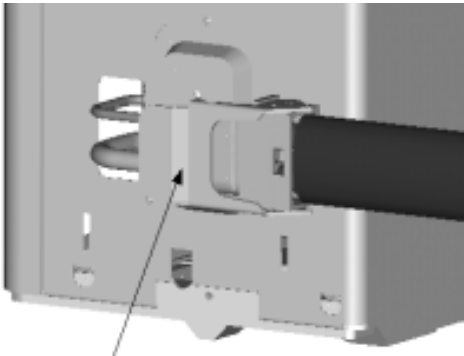
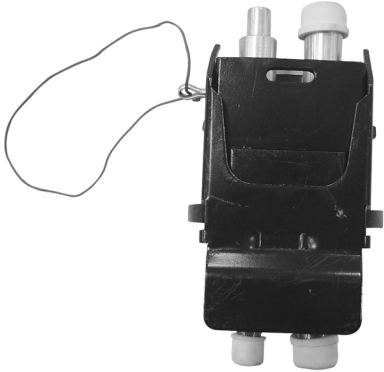
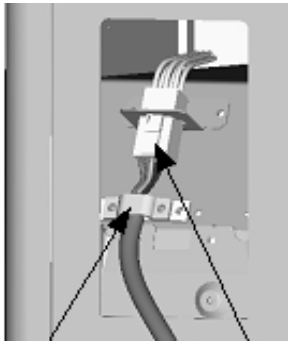

3. Connecting the pipe to the outdoor unit

Remove the cap from the 2- and 3-way valves. Connect the pipes to the 2- and 3-way valves separately, tightening to the torque specified.

4. Connecting the cable to the outdoor unit (see the previous page)

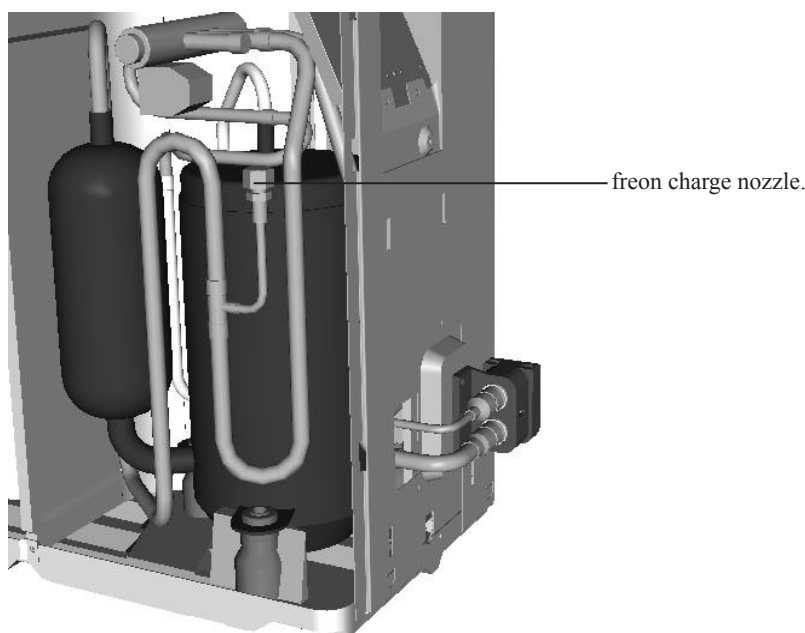


Operating Process	Photos
<p>1. Screw out bolt pointed by arrow.</p>	 <p>Bolt</p>
<p>2. Press big handle downward and take it off.</p>	
<p>3. Before the installation the user has to remove the safety closing indicated in the picture.</p>	
<p>4. Undo the tightening plate on quick connector (male).</p>	 <p>Orientating pin Tightening plate</p>
<p>5. Pull the tightening noose inward by the arrow direction.</p>	 <p>Tightening noose</p>

Operating Process	Photos
<p>6. Insert quick connector (male) into root of the female one, and reposit tightening noose at the same time.</p> <p>Note: Make orientating pin downward.</p>	
<p>7. Rotate tightening plate and press it to bottom.</p> <p>Note: it is hard to press tightening plate to bottom if tightening noose reposit thoroughly</p>	 <p>Tightening plate</p>
<p>8. After closing of the quick connection, put in the safety plug in the correct hole as indicated in the picture.</p>	
<p>9. Connect the wire terminal. Install wire clamp to tighten connection wire.</p>	 <p>Wire clamp Connection terminal</p>
<p>10. Install big handle</p>	

Importance Notice

If it is going to charge refrigerant, please take off top cover and panel of outdoor unit, and charge refrigerant from freon charge nozzle.



NOTES

U I A

- Read this manual before installing and use the appliance.
- Check that air does not enter the refrigerant system and that there are no leaks of refrigerant when the air-conditioner is moved.
- Run a test cycle after the installation of the air-conditioner and record the operating data.
- The type of fuse installed on the indoor control unit is rated to 3.15A, T, 250V.
- The user must fit the entire unit with a fuse suitable for the maximum input current or use another safety cut-out device.
- The plug must remain accessible following the installation of the appliance, so that the appliance can be unplugged if required.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.



IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH EC DIRECTIVE 2002/96/EC.

At the end of its working life, the product must not be disposed of as urban waste.

It must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service.

Disposing of a household appliance separately avoids possible negative consequences for the environment and health deriving from inappropriate disposal and enables the constituent materials to be recovered to obtain significant savings in energy and resources. As a reminder of the need to dispose of household appliances separately, the product is marked with a crossed-out wheeled dustbin.

For information on service and the supply of spare parts, please contact:

**FIXED AIR-CONDITIONING TECHNICAL SERVICE DEPARTMENT
DE' LONGHI GROUP**

via L. Seitz,47 - 31100 Treviso (ITALY)

