

BEFORE USING THE APPLIANCE

To make the most out of your new appliance, please read the user instructions carefully and keep them handy for future consultation.

SAFETY PRECAUTIONS

- The Installation and service/repair must be performed by a qualified technician, in compliance with the producer's instructions and following local safety norms. Do not repair or replace any parts of the appliance unless it is specifically written in the user instructions.
- Do not pull the power supply cord to remove it from the socket. Do not twist or press the power supply cord, and make sure it is not broken.
- Do not touch the power plug, circuit breaker and emergency button when your hands are wet.
- Do not insert your fingers or foreign substances into the air inlet/outlet of indoor&outdoor unit.
- Never block the air inlet or outlet of indoor and outdoor unit.
- Physically or mentally disabled people, children and people without any experience with the product are only allowed to use the appliance if they have had specific training on how to operate the appliance by a person responsible for their security and well-being. The appliance is not intended for use by disabled people and very young children without supervision.
- Children should be supervised to ensure that they do not play with the appliance (including remote control).

AIR CONDITIONER PRECAUTIONS


Please strictly follow the below instructions:

- Long and direct exposure to cool air might be harmful to health. It is advisable to set the louvers in order to avoid direct cool air and deflect it within the room.
- Upon malfunctioning first turn the appliance off by pressing the ON/OFF button on the remote control, then disconnect it from power supply.
- Do not switch the appliance on and off too often as this can damage the appliance.
- Do not place any objects on the outdoor unit.
- Disconnect the air conditioner from the power supply if it is to be left unused for a long period of time or during a thunder/lightning storm.
- This product contains Fluorinated Greenhouse Gases covered by the Kyoto Protocol, the refrigerant gas being in a hermetically sealed system. Refrigerant gas: R410a has a Global Warming Potential (GWP) 1975.


SAFEGUARDING THE ENVIRONMENT

- This appliance has been made of recyclable or re-usable material. Scrapping must be carried out in compliance with local waste disposal regulations. Before scrapping it, make sure to cut off the mains cord so that the appliance cannot be re-used.
- For more detailed information on handling and recycling of this product, contact your local authorities who deal with the separate collection of rubbish or the shop where you bought the appliance.

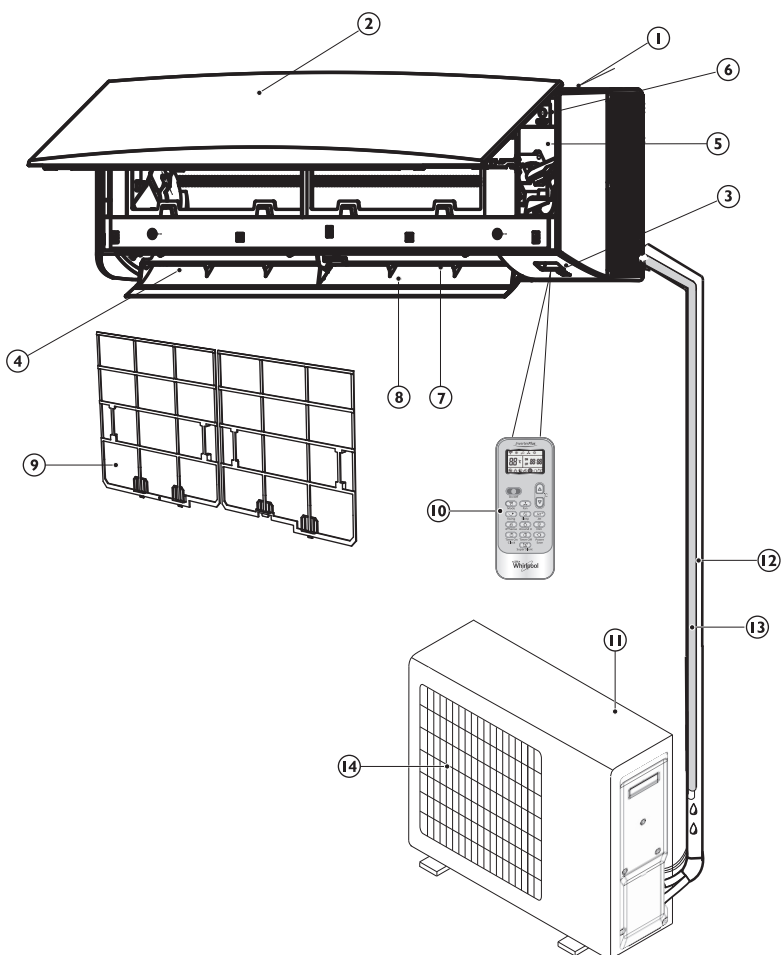
SCRAPPING OF PACKAGING

- The packaging can be 100% recycled as confirmed by the recycling symbol . The various parts of the packaging must not be dispersed in the environment, but must be scrapped in line with local authority regulations.

SCRAPPING OF APPLIANCE

- This appliance is marked according to the European Directive 2002/96/EC, Waste Electrical and Electronic Equipment (WEEE).
- By ensuring that this product is disposed of correctly, you will help to prevent potentially negative consequences for the environment and for human health.
- The symbol  on the product or on the documents accompanying the product indicates that this appliance should not be treated as household waste, but must be given to the appropriate local gathering place where electric and electronic appliances are stored and recycled.

PRODUCT DESCRIPTION



Indoor unit

1. Air Intake
2. Front Panel
3. Display panel
4. Air Outlet
5. Electrical box
6. Emergency control button
7. Vertical Adjustment Louver
8. Horizontal Adjustment Louver
9. Air Filter
10. Remote Control

Outdoor unit

11. Air Intake
12. Pipes and Power Connection Cord
13. Drain Hose

Note: Condensate water drains at COOLING or DRY operation.

14. Air Outlet

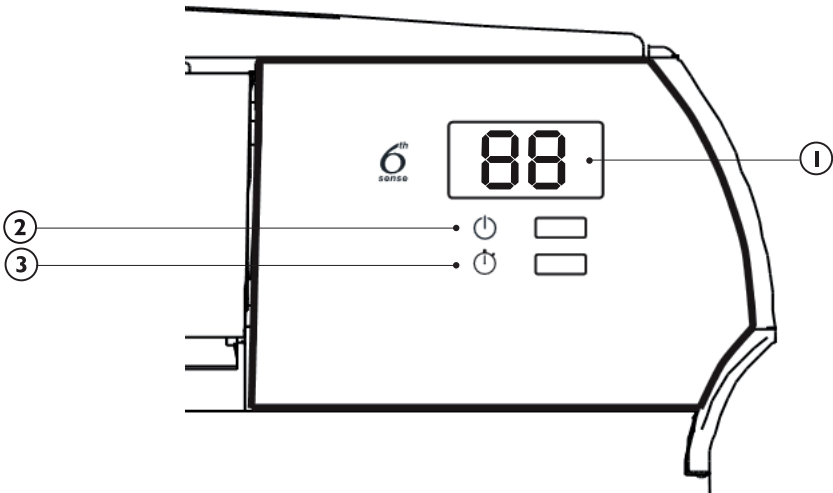
Images in the user instructions are based on external views of standard models, shape and design vary according to the model.

CONTROL PANEL DISPLAY INDICATORS DESCRIPTION

88 Temperature indicator (1)
Displays set temperature.

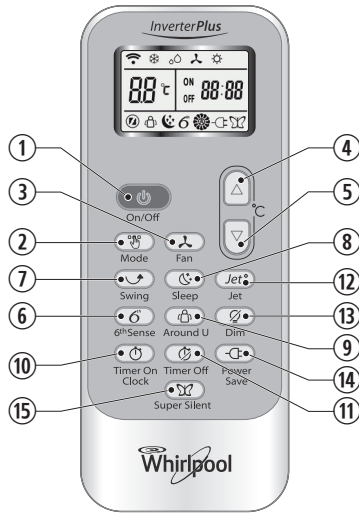
Running indicator (2)
It lights up during operation.
It flashes during outside unit defrosting.

Timer indicator (3)
It lights up during the set time.
It goes off when timer operation ends.




















REMOTE CONTROL FUNCTIONS AND INDICATORS

- 1. ON/OFF BUTTON**
Starts and/or Stops the appliance by pressing this button.
- 2. MODE BUTTON**
Used to select the operation mode.
- 3. FAN BUTTON**
Used to select fan speed in sequence auto, high, medium or low.
- 4-5. TEMPERATURE BUTTON**
Used to select the room temperature. Used to set time in timer mode and real time clock.
- 6. 6TH SENSE BUTTON**
Sets or cancels 6th sense operation.
- 7. SWING BUTTON**
Stops or starts vertical adjustment louver swinging and sets the desired up/down airflow direction.
- 8. SLEEP BUTTON**
Sets or cancels Sleep Mode operation.
- 9. AROUND U BUTTON**
When you press this button, the remote control transmits signal of the actual room temperature around itself to the indoor unit every 10 minutes. Therefore please keep the remote control in a location where it can transmit the signal to the indoor unit properly. Press once to set and press again to cancel.
- 10. TIMER ON/CLOCK BUTTON**
Used to set the current time.
Used to set or cancel the timer on operation.
- 11. TIMER OFF BUTTON**
Used to set or cancel the timer off operation.



- 12. JET BUTTON**
Used to start or stop the fast cooling.
- 13. DIM BUTTON**
Used to turn on or turn off display light on indoor unit.
- 14. POWER SAVE BUTTON**
Used to start or stop the power save operation.
- 15. SUPER SILENT BUTTON**
Used to start or stop the super silent operation. This function is available only on certain models. Models without this function don't have the button on the remote control.

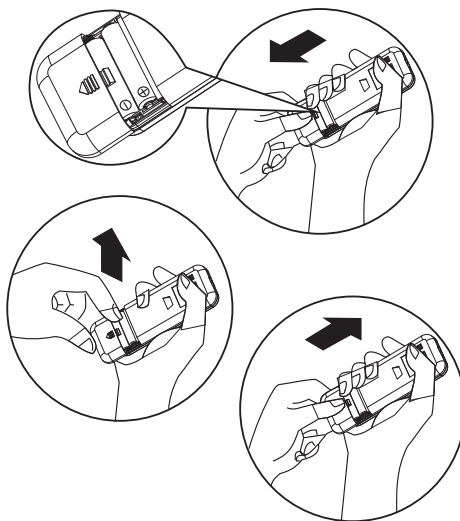
INDICATOR SYMBOLS ON RC DISPLAY

- | | |
|--|---|
|  Cooling indicator |  6th Sense indicator |
|  Dry indicator |  Sleep indicator |
|  Fan only indicator |  Around U indicator |
|  Heating indicator |  Jet indicator |
|  Auto fan speed |  Signal transmission |
|  High fan speed |  Display set timer
Display current time |
|  Medium fan speed |  Display set temperature |
|  Low fan speed |  Power save indicator |
|  Super silent indicator | |

STORAGE AND TIPS FOR USING THE REMOTE CONTROL

How to insert the batteries

1. Insert a pin and gently press down on the battery cover and push in the direction of the arrow to remove, as shown.
2. Insert 2 AAA batteries (1.5V) into the compartment.
Ensure that "+" and "-" polarity is correctly positioned.
3. Close the battery cover on the remote control.



How to remove the batteries


Remove the battery cover in the direction of the arrow.

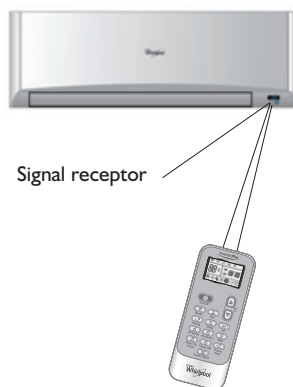
Press the positive pole of the battery softly with your fingers, then draw the batteries out of the compartment. All this should be done by adults, children are forbidden to remove the batteries from the remote control in order to avoid danger of swallow.

Disposal of the batteries

Please discard the batteries as sorted municipal waste at the accessible collection point.

Precautions

- When replacing the batteries, do not use new batteries with old batteries, or different types of batteries as this may cause the remote control to malfunction.
- If you do not expect to use the remote control for some time, take the batteries out to prevent leakage of battery acid in the remote control.
- Operate the remote control within effective range. Keep the remote control at least 1 meter from any TV set or HI-FI equipment.
- If the remote control does not work normally, take the batteries out and reinstall after 30 seconds. If it still does not work install new batteries.
- To operate the appliance by remote control, point the remote control at the receiving device on the indoor unit, to ensure receiving sensibility.
- To send a message from remote control, the symbol  will flash for 1 second. On receipt of the message, the appliance will emit a beep.



- The remote control will operate the air conditioner at a distance of up to 7m.
- Each time the batteries are replaced in the remote control, the remote control is pre-set at Heat Pump mode.

OPERATING MODE DESCRIPTION

Operation Modes:

1. Selecting mode

Each time **MODE** button is pressed, the operation mode is changed in sequence:

COOLING → DRY → FAN ONLY → HEATING

↑
Heating mode is not available for cooling only air conditioners.

2. FAN mode



Each time the "FAN" button is pressed, the fan speed is changed in sequence:

Auto → High → Medium → Low

↑
At "FAN ONLY" mode, only "High", "Medium" and "Low" are available.

At "DRY" mode, Fan speed is set at "Auto" automatically, "FAN" button is ineffective in this case.


3. Setting temperature

-  Press once to **raise** temperature setting by 1 raise °C
-  Press once to **lower** temperature setting by 1 lower °C

Range of available set temperature	
*HEATING, COOLING	18°C~32°C
DRY	+/-7°C
FAN ONLY	unable to set

***Note: Heating mode is NOT available for cooling only models.**

4. Turning on

Press  button, when the appliance receives the signal, the RUNNING indicator of the indoor unit lights up.


During mode changes wait a few seconds and repeat the operation if the unit does not respond at once.

When selection the heating operation, air flow will start after 2-5 minutes.



MODE AND FUNCTION DESCRIPTIONS

6th SENSE MODE

Press the  button, the unit enters **6th sense** mode directly regardless of the unit is on or off. In this mode, temperature and fan speed are automatically set based on the actual room temperature.

Operation mode and temperature are determined by indoor temperature.



Heat pump models

Indoor temperature	Operation mode	Target temperature
21°C or below	HEATING	22°C
21°C-23°C	FAN ONLY	
23°C-26°C	DRY	Room temperature decrease 1.5°C after operating for 3 minutes
Over 26°C	COOLING	26°C

6th Button is ineffective in Jet mode.



Note: Temperature, airflow and direction are controlled automatically in 6th sense mode. However, a decrease or rise of up to 7°C can be set with the remote control if you still feel uncomfortable.

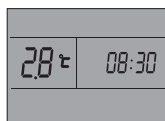
What you can do in 6th sense mode

Your feeling	button	adjustment procedure
Uncomfortable because of unsuitable air flow volume.		Indoor fan speed alternates among High, Medium and Low each time this button is pressed.
Uncomfortable because of unsuitable flow direction.		Press it once, the vertical adjustment louver swings to change vertical airflow direction. Press it again, swings stops. For horizontal airflow direction please refer to the chapter "Airflow direction control".



Clock function

You can adjust the real time by pressing TIMER ON/CLOCK button, then using  and  buttons to get the correct time, press this button again, the real time is set.



SLEEP mode

SLEEP mode can be set in **COOLING**, **HEATING** or **DRY** operation mode.

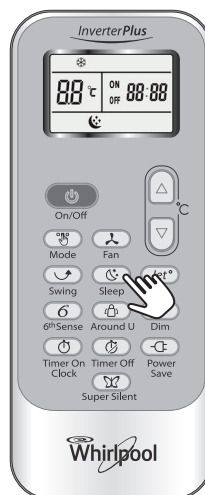
This function gives you a more comfortable environment for sleep.

In **SLEEP** mode,

- The appliance will stop operation automatically after operating for 8 hours.
- Fan speed is automatically set at low speed.
- Set temperature will rise by max 1°C if the appliance operates in cooling mode for 1 hour.
- Set temperature will decrease by 3°C at most if the appliance operates in heating mode for 3 hours.

***Note:** In cooling mode, if room temperature is 26°C or above, set temperature will not change.

Note: Heating is NOT available for cooling only air conditioner.



JET mode

- JET mode is used to start or stop fast cooling or Heating.

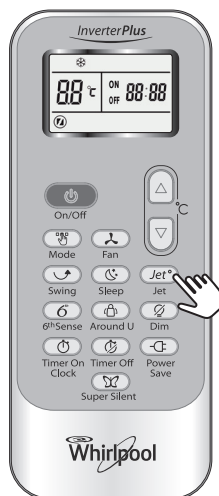
Fast cooling operates at high fan speed, changing the set temperature automatically to 18°C.

Fast heating operates at auto fan speed, changing the set temperature automatically to 32 °C.

- In **JET** mode, you can set airflow direction or timer. If you want to quit from JET mode, press any - JET , MODE, FAN, ON/OFF or TEMPERATURE SETTING button, the display will return to the original mode.

Note:

- SLEEP and 6th Sense buttons are not available in JET mode.
- The appliance will continue working in JET mode if you don't quit from it by pressing any of the buttons mentioned.





Timer function



It is convenient to set the timer on by pressing the TIMER ON/CLOCK button to achieve a comfortable room temperature at the time you get home.



You can also set timer off by pressing the TIMER OFF button to enjoy a good sleep at night.



How to set TIMER ON

TIMER ON/CLOCK button can be used to set the timer programming as wished in order to switch on the appliance at your desired time.

i) Press TIMER ON/CLOCK button for 3 seconds, when "ON 12:00" flashes on the LCD, then you can press the  or  buttons to select your desired time for appliance on.

Press the  or  button once to increase or decrease the time setting by 1 minute.

Press the  or  button for 5 seconds to increase or decrease the time setting by 10 minutes.

Press the  or  button for a longer time to increase or decrease the time by 1 hour.

Note: If you don't see the time in 10 seconds after you press TIMER ON/CLOCK button, the remote control will exit the TIMER ON mode automatically.

ii) When your desired time displayed on LCD, press the TIMER ON/CLOCK button and confirm it.

A "beep" can be heard.

"ON" stops flashing.

The TIMER indicator on the indoor unit lights up.

iii) After the time set displayed for 5 seconds the clock will be displayed on the LCD of the remote control instead of set timer.

How to cancel TIMER ON

Press the TIMER ON/CLOCK button again, a "beep" can be heard and the indicator disappears, the TIMER ON mode has been canceled.


Note: It is similar to set the TIMER OFF, you can make the appliance switch off automatically at your desired time.

 Increase

 Decrease



Around U function

When you press this button,  will display, remote control transmits the actual room temperature around it to the indoor unit, and the appliance will operate according to this temperature to let you feel more comfortable. Please keep the remote control in a location where it can transmit the signal to the indoor unit properly. Press once to set and press again to cancel.



DIM function

Press this button to turn on or turn off display light on indoor unit control panel.



POWER SAVE function

POWER SAVE mode can be available in **COOLING, HEATING, DRY** and **FAN ONLY** operation mode.

When pressing this button,  will display on remote control.



POWER SAVE function under **COOLING, HEATING** and **DRY** mode, the appliance will set the temperature at 25°C with low fan speed. **POWER SAVE** function under **FAN ONLY** mode: the appliance will set at low fan speed.


Change mode or press the power save button again to cancel this function.

Note: Fan speed and temperature can not be adjusted under this mode.

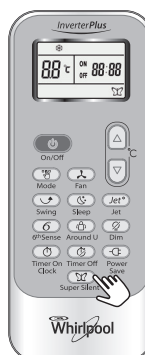


SUPER SILENT function

Press  button to let the unit operate at low noise level to get a quiet and comfortable room environment.  will display on remote control.

Note: Super silent function  will be off when pressing **MODE** button, or pressing **SUPER SILENT** button again.

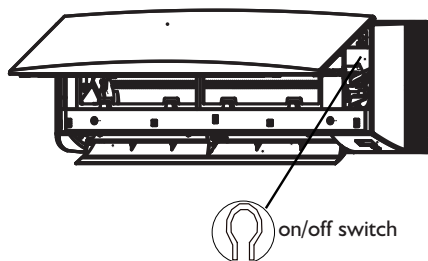
This function may not be available on some models.



EMERGENCY OPERATION

Under emergency situation or when remote control is missing, you can control the unit by pressing the on/off switch located on the indoor unit.

- Turn on the appliance: when the unit is off, press this button, it will start up and operate in 6th SENSE mode.
- Turn off the appliance: when the unit is on, press this button, the unit will stop working.



PROTECTION

Operating condition

The protective device maybe trip and stop the appliance in the cases listed below.

Heating	Outdoor air temperature is over 24°C
	Outdoor air temperature is below -10°C
	Room temperature is over 27°C
Cooling	Outdoor air temperature is over *43°C
	Room temperature is below 21°C
Dehumidifying	Room temperature is below 18°C

*For Tropical (T3) Climate condition models, the temperature point is 52°C instead of 43°C.

If the air conditioner runs in **COOLING** or **DRY** mode with door or window opened for a long time when relative humidity is above 80%, dew may drip down from the outlet.

Noise pollution

- Install the appliance at a place that can bear its weight in order to operate more quietly
- Install the outdoor unit at a place where the air discharged and the operation noise would not disturb your neighbours.
- Do not place any obstacles in front of the air outlet of the outdoor unit lest it increases the noise level.

Features of protection device

Wait at least 3 minutes before restarting the unit after operation stops or changing mode during operation. After connecting to power supply and turning on the appliance immediately, a delay of 20 seconds may occur before it starts to operate. If all operation has stopped, press **ON/OFF** button again to restart. Timer should be set again if it has been cancelled.

Features of **COOLING** mode

Anti-freezing

When the temperature of the indoor heat exchanger drops to 0° or below, compressor will stop working to protect the appliance.

Features of **HEATING** mode

Preheating

In order to prevent cool air blowing, 2-5 minutes are necessary to preheat the indoor unit at **HEATING** operation start. The indoor fan will not work during preheating.

Defrosting

In **HEATING** operation the appliance will defrost (de-ice) automatically to raise efficiency. This procedure usually lasts 6-10 minutes. During defrosting, fan stops running and running indicator flashes.

After defrosting is completed, it returns to **HEATING** mode automatically.

MAINTENANCE

Clean front panel of Indoor Unit

1. Disconnect from the power supply

Turn off the appliance first before disconnecting from power supply.

2. Remove the front panel

Open the front panel as shown by the arrow (Fig. A).

Pull the slots at the side of the front panel with force to take out the front panel (Fig. B).

3. Clean the front panel

Wipe it with a soft and dry cloth. Use lukewarm water (below 40°C) to clean if the appliance is very dirty. After cleaning let it dry.

4. Refit and close the front panel.

Refit and close the front panel by pushing it downward.

Note:

- Do not use substances such as gasoline or polishing powder to clean the appliance.
 - Do not sprinkle water onto the indoor unit
- Dangerous! Electric shock!**

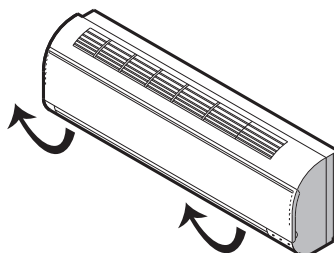


Fig. A

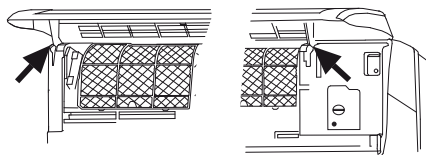


Fig. B

Clean Air filter

It is necessary to clean the air filter after using it for about 100 hours. Clean the air filter every two weeks if the air conditioner operates in an extremely dusty environment.

1. Disconnect from the power supply

Turn off the appliance first before disconnecting from power supply.

2. Take out air filter (Fig. C).

1. Open the front panel.
2. Press the handle of the filter gently.
3. Slide out the filter.

3. Cleaning the air filter (Fig. D)

If the filter is very dirty, clean it with a solution of lukewarm water and neutral detergent.

After cleaning let it dry.

4. Refit the filter and close the front panel.

Note:

- To avoid injury, do not touch the fins of indoor unit with your fingers after removing the filter.
- Do not attempt to clean the inside of the air conditioner by yourself.
- Do not clean the filter in washing machine.

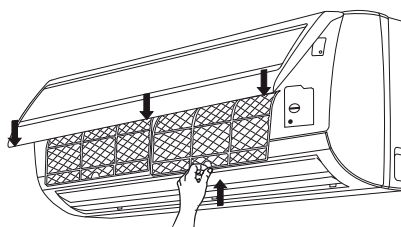


Fig. C

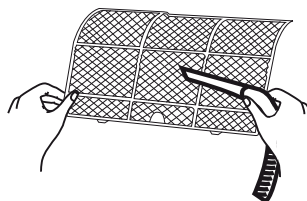


Fig. D

TROUBLESHOOTING

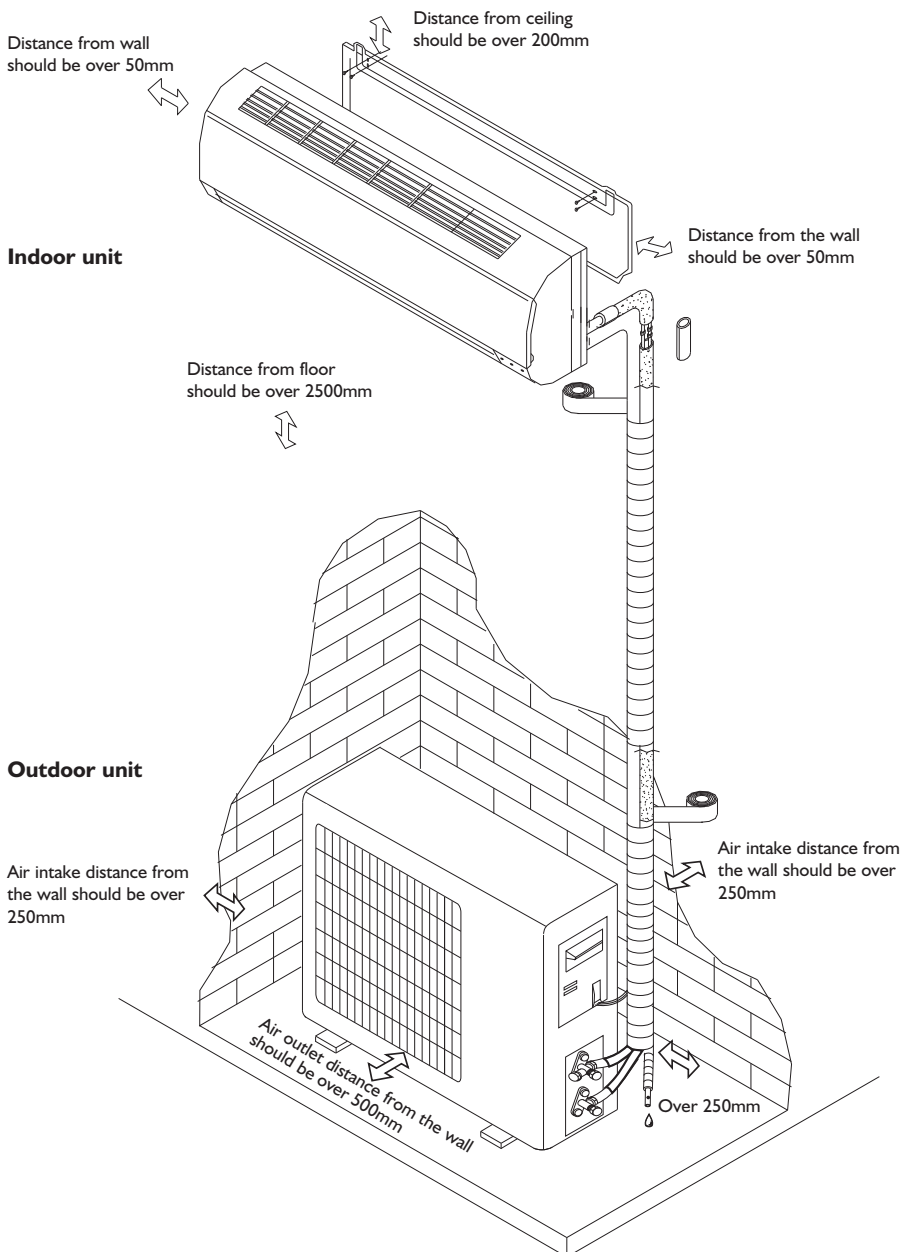
Operation problems are often due to minor causes, please check and refer to the following chart before contacting the service. This may save time and unnecessary expenses.

Trouble	Analysis
Does not run	<ul style="list-style-type: none"> • Is the protection device or fuse blown? • Please wait for 3 minutes and start again, protection device may be preventing unit to work. • Are the remote control batteries low? • Is the plug not properly plugged?
No cooling or heating air	<ul style="list-style-type: none"> • Is the air filter dirty? • Are the intakes and outlets of the air conditioner blocked? • Is the temperature set properly? • Are doors or windows open?
Ineffective control	<ul style="list-style-type: none"> • Has there been a strong interference (from excessive static electricity discharge, power supply voltage abnormality)? Note that operation will be abnormal, in this case unplug from the power supply and re-plug after 2-3 seconds.
Does not operate immediately	<ul style="list-style-type: none"> • 3 minute delay will occur when changing mode during operation.
Peculiar smell	<ul style="list-style-type: none"> • This smell may come from another source such as furniture, cigarette etc, which is sucked in the unit and blown out with the air.
A sound of running water	<ul style="list-style-type: none"> • Normal behaviour caused by the flow of refrigerant in the air conditioner. • Defrosting sound in heating mode.
Cracking sound	<ul style="list-style-type: none"> • The sound may be generated by the expansion or contraction of the front panel due to temperature changes.
Mist sprays from the outlet	<ul style="list-style-type: none"> • Mist is present in the room with low temperature? Normal behaviour due to cool air discharged from indoor unit during COOLING or DRY operation mode.
Running indicator flashes but indoor fan stops.	<ul style="list-style-type: none"> • The unit is shifting from heating mode to defrost. The indicator will light off and return to heating mode.

Note: If the problems still have, turn off the appliance and disconnect from power supply, then contact the nearest Whirlpool Authorized Service Center. Do not attempt to move, repair, disassemble, or modify the appliance by yourself.

INSTALLATION INSTRUCTIONS

Installation diagram

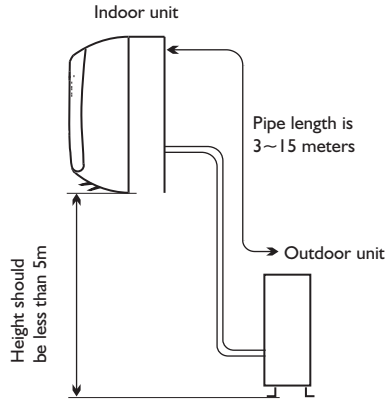


NOTE: The figure above is only a simple presentation of the unit, it may not match the external appearance of the product you purchased. Installation must be performed in accordance with the national wiring standards by authorized service people only.

Select the best location

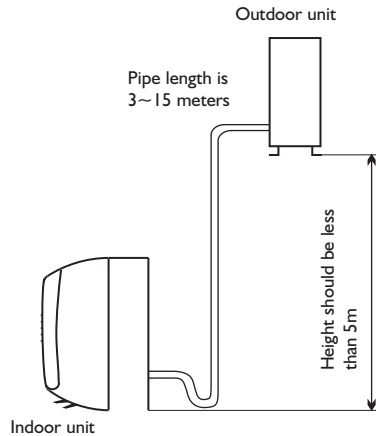
Location for Installing Indoor Unit

- Where there is no obstacle near the air outlet and air can be easily blown to every corner of room.
- Where piping and wall hole can be easily arranged.
- Observe the required distance from ceiling and wall according to the installation diagram.
- Where the air filter can easily be removed.
- Keep the unit and remote control 1m or more from television, radio etc.
- To prevent the effects of a fluorescent lamp, keep the unit as far as possible from it.
- Do not put anything near the air inlet that could obstruct it.
- In a place that can bear the weight and will not increase operating noise and vibrations.
- The indoor unit is not suitable to be installed in areas used for laundry.



Location for Installing Outdoor Unit

- Install in a convenient and well-ventilated place.
- Avoid installing it where flammable gas could leak.
- Observe the required distance from the wall according to the installation diagram.
- The distance between Indoor and outdoor unit should be 5 meters and can go up to maximum 15 meters with additional refrigerant charge.
- Do not install the outdoor unit in a dirty or greasy place, near a vulcanization gas exit.
- Avoid installing it at the roadside where it could be soiled with muddy water.
- A fixed base where operating noise will not increase.
- Where the air outlet is not obstructed.
- The installation position shall be able to withstand the weight and vibration of the outdoor unit and ensure safe installation;
- Where drained water does not become any problem.



Model	Standard tubing Length (m)	Limit of Tubing Length (m)	Limit of Elevation Difference H (m)	Required extra refrigerant when the connecting tube over 5m (g/m)
9K/12K/18K	5	15	5	20

INSTALLATION SERVICE

Before installation

1. Please read this manual carefully before installation.
2. The appliance must be installed according to national wiring rules and according to this manual by qualified technicians.
3. Any change of installation position must be handled by professionals;
4. Check the product to verify that it has not been damaged before installation.
5. Mount with the lowest moving parts of indoor unit at least 2.5m above floor or grade Level.
6. After installing, the consumer must operate the appliance correctly according to this manual, keep a suitable storage for maintenance and move of it in the future.

SAFETY PRECAUTION

1. The power supply must be of rated voltage with special circuitry for the appliance. The normal operating range of voltage is 90%~110% of rated voltage. The diameter of the power cord must comply with requirements.
2. The user power supply shall have a reliable grounding terminal. It is prohibited to connect the grounding wire to the following items: 1) Water Supply Pipe 2) Gas Pipe 3) Sewage Pipe 4) Other positions that are considered unsafe
3. Ensure safe grounding and a grounding wire connected with the special grounding system of the building, installed by professionals. The appliance must be fitted with electrical leakage protection switch and an air switch with sufficient capacity (Refer to the following chart). The air switch must also have a magnetic and a thermal tripping function to ensure protection in case of short-circuit and overload.
6. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
7. Risk of electric shock can cause injury or death: Disconnect all electric power supplies before servicing.
8. The connection of power cord and the cable connection between indoor unit and outdoor unit shall be in accordance with the wiring diagram attached on the appliance.
9. Once installation is completed, the electric components must not be accessible to the users.
10. Use two or more people to move and install the appliance to avoid excessive weight hazard.
11. After unpacking the air conditioner, keep all packaging materials well out of the reach of children.
12. According to the character of refrigerant (R410a), the pressure of the tube is very high, so be sure to careful when you install and repair the appliance.

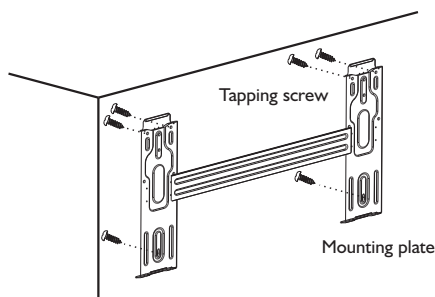
Type	Model	Required Capacity of air break switch
Inverter	9k	16A
	12k	16A
	18k	25A
	24k	32A

4. Make sure that the power supply cord is long enough to allow the right connection. Do not use any extension cord for power supply.
5. 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;

INDOOR UNIT INSTALLATION

1. Installing the Mounting Plate

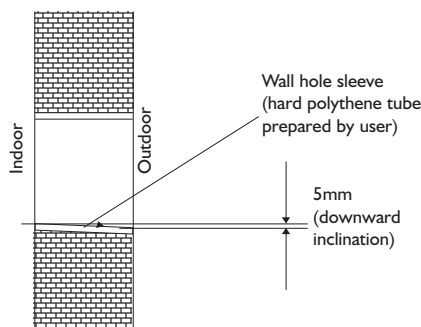
- Select a location to install the mounting plate according to the indoor unit location and piping direction.
- Adjust the mounting plate horizontally with a gradienter or plumb line.
- Drill holes 32mm in deep on the wall to fix the plate.
- Insert the plastic plugs in the hole, then fix the mounting plate with tapping screws.
- Check that the mounting plate is well fixed. Then drill a hole for piping.



NOTE: The shape of your mounting plate may be different from the one above, but installation method is similar.

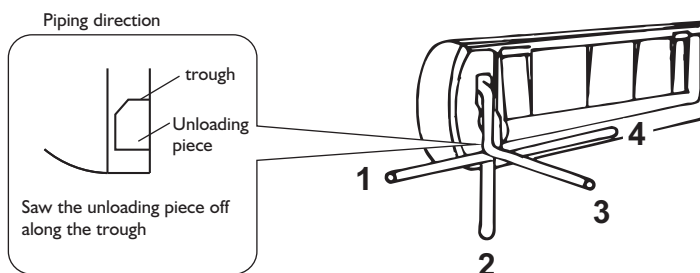
2. Drill a Hole for Piping

- Decide the position of the hole for piping according to the location of mounting plate.
- Drill a hole on the wall. The hole should slightly be inclined downward toward outside.
- Install a sleeve through the wall hole to keep the wall tidy and clean.



3. Indoor Unit Piping Installation

- Fit the piping (liquid and gas pipe) and cables through the wall hole from outside or fit them from inside after completing indoor piping and cables connections so as to connect to outdoor unit.
- Decide whether saw off the plastic part in accordance with the piping direction (as shown below).



NOTE:

When fixing the pipe along directions 1, 2 or 4, saw the corresponding plastic part off the indoor unit base.

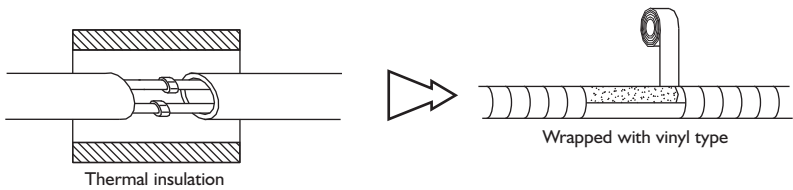
- After connecting the piping as required, install the drain hose. Then connect the power connecting cable. After connecting, wrap the piping, cable and drain hose together with thermal insulating materials.

NOTE: Do not connect to power supply during installation.

IMPORTANT:

Piping Joints Thermal Insulation:

Wrap the piping joints with thermal insulating materials and then wrap with a vinyl tape.

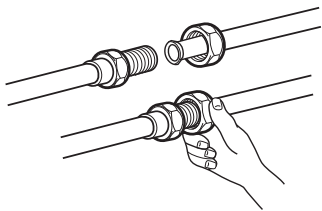
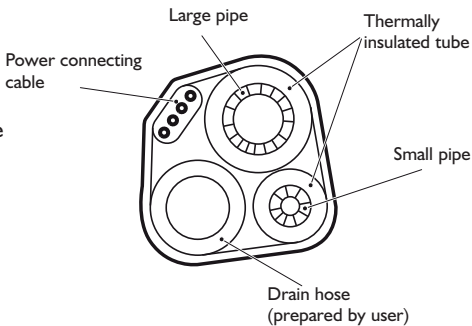


Thermal Insulation piping:

- a. Place the drain hose under the piping.
- b. Insulation material: polythene foam over 6mm in thickness.

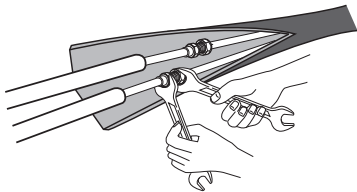
NOTE: Drain hose is prepared by user.

- Drain hose should point downward for easy drain flow. Do not twist the drain pipe, leave it sticking out or waving around, do not immerse the end in water. If an extension drain hose is connected to the drain pipe, make sure to be thermally insulated when passing it through the indoor unit.
- When the piping is directed to the right, piping, power cable and drain hose should be thermally insulated and fixed at the rear of the unit.



Piping Connection:

- a. Connect indoor unit pipes with two wrenches. Pay special attention to the torque allowed as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.
- b. At first fingers-tighten them, then use the wrenches.

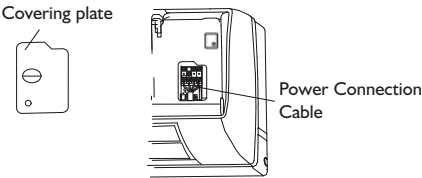


Pipe size	Torque	Nut width	Min. thickness
Liquid Side (1/4 inch)	1.5~2kg.m	17mm	0.5mm
Liquid Side (3/8 inch)	3.1~3.5kg.m	22mm	0.6mm
Gas Side (3/8 inch)	3.1~3.5kg.m	22mm	0.6mm
Gas Side (1/2 inch)	5.0~5.5kg.m	24mm	0.8mm
Gas Side (5/8 inch)	6.0~6.5kg.m	27mm	0.8mm

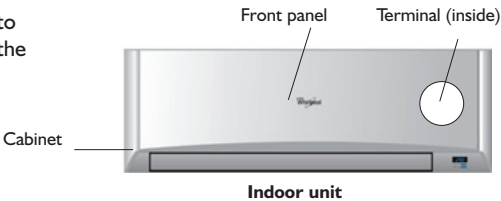
4. Connecting the Cable

• Indoor Unit

- 1) Open the front panel, remove the covering plate by loosening the screw.
- 2) Connect the power connecting cord to the indoor unit by connecting the wires to the terminals on the control board individually as follows.
- 3) Secure the power connecting cord on the control board with cable clamp.
- 4) Refit the covering plate and tighten the screw.

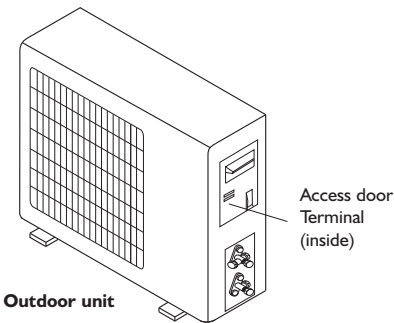


NOTE: (depending on the model) It is necessary to remove the cabinet to perform connections with the indoor unit terminal.



• Outdoor Unit

- 1) Remove the access door from the unit by loosening the screw. Connect the wires to the terminals on the control board individually in accordance with the indoor unit connection.
- 2) Secure the power connecting cord on the control board with cable clamp.
- 3) Refit the access door in the original position and tighten the screw.
- 4) Use a recognized circuit breaker for 24K model between the power source and the unit. A disconnecting device to adequately disconnect all supply lines must be fitted.



CAUTION:

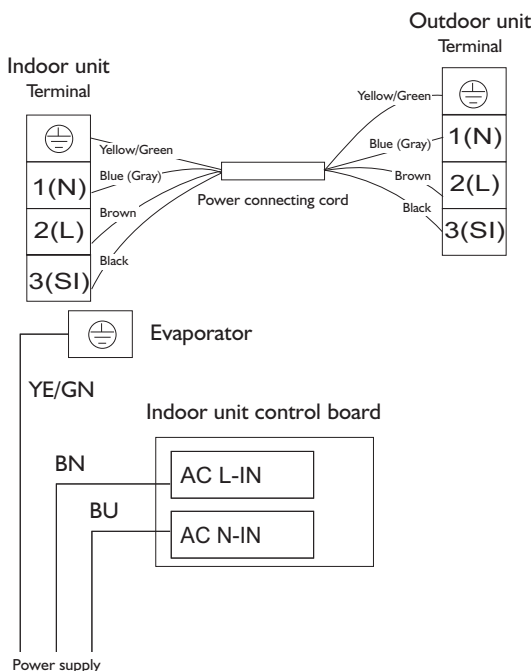
- 1. Make sure that the colour of wires and the terminal number of the outdoor unit are the same as those of the indoor unit.
- 2. Use an individual power circuit specifically for the air conditioner. As for the wiring method, refer to the circuit diagram on the appliance.
- 3. Check that the cable specification conforms to the table as follows.
- 4. Check the wires and make sure that they are all tightly fastened after cable connection. The cable should be tightly fastened by cable clamp.
- 5. Be sure to install an earth leakage circuit breaker in a wet or moist area.

Cable Specifications

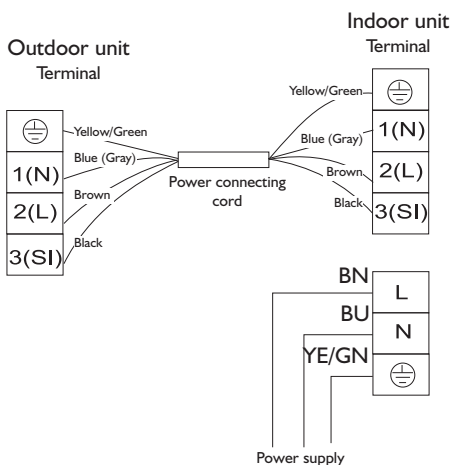
Type	Capacity (Btu/h)	Power cord	Power connecting cable	Main power supply (Note)
Inverter	9k	H05VV-F, 3G x 1.0 mm ² / 1.5 mm ²	H07RN-F, 4G 1.0 mm ² / 1.5 mm ²	To indoor
	12k	H05VV-F, 3G x 1.0 mm ² / 1.5 mm ²	H07RN-F, 4G 1.0 mm ² / 1.5 mm ²	To indoor
	18k	H07RN-F, 3G 2.5 mm ²	H07RN-F, 4G 1.5 mm ²	To indoor
	24k	H07RN-F, 3G 2.5 mm ²	H07RN-F, 4G 2.5 mm ²	To indoor

WIRING DIAGRAM

• 9K/12K Models



• 18K/24K Models



Note:

For 9k, 12k models, the power supply are connected from indoor unit with a plug.

For 18k, 24k models, the power supply are connected from indoor unit with a circuit breaker.

OUTDOOR UNIT INSTALLATION

1. Install Drain Port and Drain Hose

The condensate drains from the outdoor unit when the unit operates in heating mode. In order not to disturb your neighbours and protect the environment, install a drain port and a drain hose to direct the condensate water. Just install the drain port on the chassis of the outdoor unit, then connect a drain hose to the port as shown in the figure on the right .

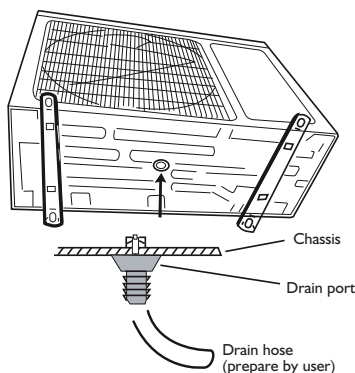
2. Install and Fix Outdoor Unit

Fix with bolts and nuts tightly on a flat and strong floor. If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.

3. Outdoor Unit Piping Connection

- Remove the valve caps from the 2-way and 3-way valve.
- Connect the pipes to the 2-way and 3-way valves separately according to the required torque.

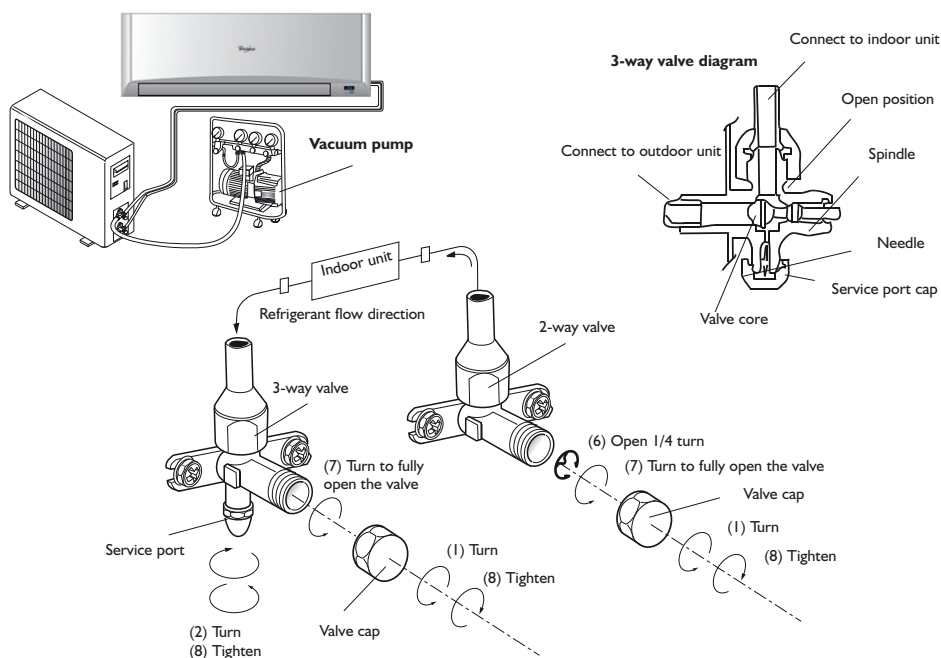
4. Outdoor Unit Cable Connection (see previous page)



AIR PURGING

Air containing moisture remaining in the refrigeration cycle may cause a malfunction on the compressor. After connecting the indoor and outdoor units, evacuate air and moisture from refrigerant cycle using a vacuum pump, as shown below.

Note: Because the system pressure is high and also to protect the environment, be sure not to discharge the refrigerant to the air directly.



How to Purge Air Tubes:

1. Unscrew and remove caps from 2 and 3-way valves.
2. Unscrew and remove cap from service valve.
3. Connect vacuum pump flexible hose to the service valve.
4. Start vacuum pump for 10-15 minutes until it reaches an absolute vacuum of 10 mm Hg.
5. With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop vacuum pump.
6. Open 2-way valve 1/4 turn, then close it after 10 seconds. Check tightness of all joints using liquid soap or an electronic leak detector.
7. Turn 2 and 3-way valves stem. Disconnect vacuum pump flexible hose.
8. Replace and tighten all valve caps.

AFTER SALES SERVICE

Before contacting the Customer Care Centre:

- 1. Try to solve the problem yourself based on the descriptions given in the "Troubleshooting".
- 2. Turn the appliance off and restart it to see if the fault persists.

If after carrying out the above checks, the fault persists, contact the Customer Care Centre.

Please give:

- a short description of the fault;
- the exact model of the air conditioner;
- the service number (this is the number found below the word Service on service sticker which is located on the side or on the bottom of the indoor unit).

The service number can also be found in the warranty booklet;

- your full address;
- your telephone number.

If repair work has to be carried out, contact the **Customer Care Centre** (Use of original spare parts and a proper repair is guaranteed).

You will need to present the original invoice.

Failure to comply with these instructions could compromise the safety and quality of your product.

