User Guide

Kogan SmarterHome™ Inverter Split System Air Conditioner

(8.2kW, Reverse Cycle)

KASSSAC82TA

Safety & Warnings

Safety Rules and Recommendations for the Installer

This air conditioner must be installed by a licensed trade professional.

- Read all safety instructions before installing and using the appliance. Retain this user guide for future reference.
- During the installation of the indoor and outdoor units, access to the working area should be forbidden to children. Unforeseeable accidents could happen.
- Make sure that the base of the outdoor unit is firmly fixed.
- Check that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.
- Carry out a test cycle after installing the air conditioner and record the operating data.
- Protect the indoor unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.
- Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
- Check that the electrical outlet is suitable for the plug, otherwise have the electrical outlet changed by a licensed trade professional.
- The appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under 'over voltage category III' conditions and these means must be incorporated in the fixed wiring in accordance with the wiring rules.
- Do not install the appliance in a location where it less than 50cm away from flammable substances (alcohol, etc.) or from pressurised containers (e.g., spray cans).
- If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a danger of fire.
- The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its life to a special waste collection Centre for disposal.
- Only use the air conditioner as instructed in this user guide. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.
- The appliance must be installed in accordance with applicable national regulations.

- Before accessing the terminals, all the power circuits must be disconnected from the power supply.
- The appliance shall be installed in accordance with national wiring regulations.
- This appliance can be used by children aged from 8 years and above and people with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance. Cleaning and user maintenance must not be performed by children without supervision.
- Maintenance must be carried out by a licensed professional. Disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance.
- Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the electrical outlet, thereby avoiding the risk of electric shock or fire due to insufficient contact.
- Do not pull out the plug to switch off the appliance when it is in operation, since this could create a spark and cause a fire, etc.
- This appliance has been made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothes, cooling food, etc.
- Always use the appliance with the air filter installed. The use of this product without air filter may cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.
- The user is responsible for having the appliance installed by a qualified technician, who must check that it is earthed in accordance with current legislation and insert a thermos magnetic circuit breaker.
- The batteries in the remote controller must be recycled or disposed of properly. For disposal of scrap batteries, discard the batteries as sorted municipal waste at your local collection point.
- Do not remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposition to cold air could be dangerous for your health. Care should be taken in the rooms where there are children, old or sick people.
- If the appliance gives off smoke or there is a smell of burning, cease use immediately and contact **help.Kogan.com** for support.
- The prolonged use of the device in such conditions could cause fire or electrocution.
- Have repairs carried out only by an authorised technician recommended by Kogan.com. Incorrect repair could expose the user to the risk of electric shock, etc.
- If the air conditioner is not being used for an extended period, unhook the automatic switch.

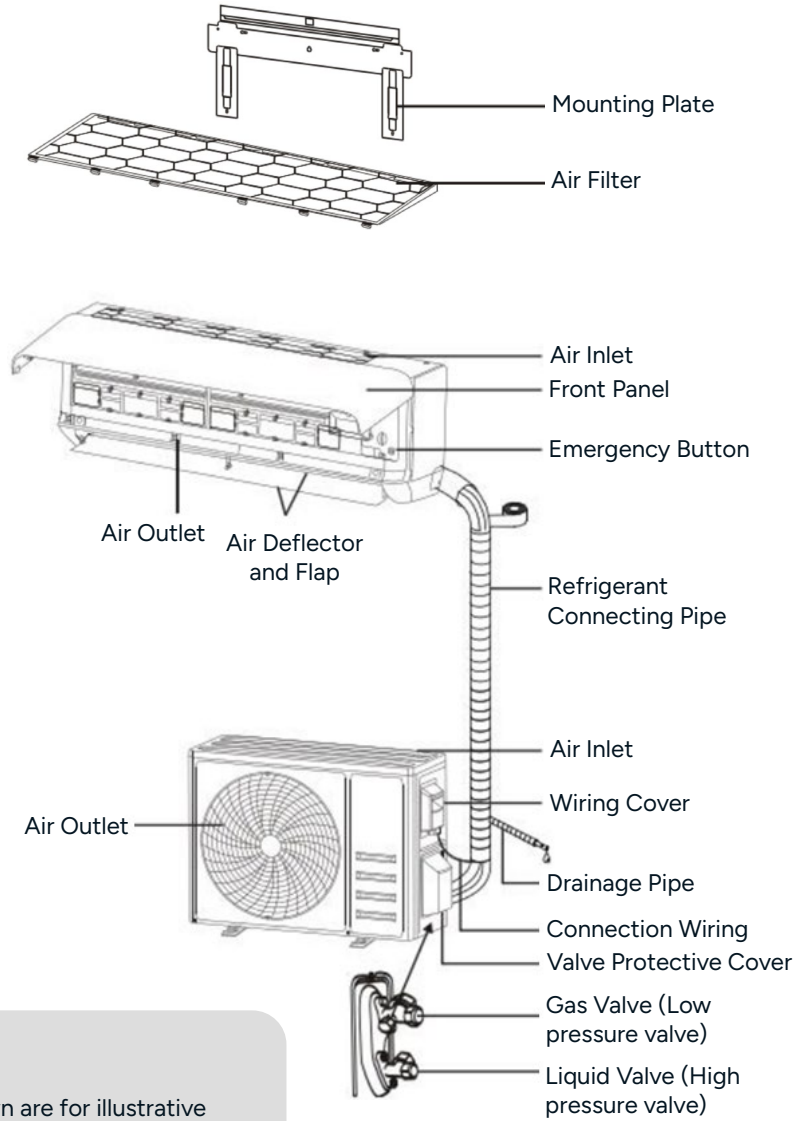
- Ensure the airflow direction is properly adjusted. The flaps must be directed downwards in the heating mode and upwards in the cooling mode.
- Selecting the most suitable temperature for your environment can prevent damage to the appliance.

Safety Rules and Prohibitions

- Do not bend, tug or compress the power cord as this may cause damage. Electrical shocks or fire are often due to a damaged power cord.
- If the power cord shows any sign of damage, cease use immediately and contact **help.Kogan.com** for support.
- Do not use extensions cords or power boards.
- Do not touch the appliance when barefoot or parts of the body are wet or damp.
- Do not obstruct the air inlet or outlet of the indoor or the outdoor unit. The obstruction of these openings causes a reduction in the operative efficiency of the conditioner with possible consequent failures or damages.
- In no way alter the characteristics or modify the appliance.
- Do not install the appliance in environments where the air may contain gas, oil or Sulphur or near sources of heat.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Do not climb onto or place any heavy or hot objects on top of the appliance.
- Do not leave windows or doors open for long when the air conditioner is operating.
- Do not direct the airflow onto plants or animals.
- A long direct exposition to the flow of cold air of the conditioner could have negative effects on plants and animals.
- Do not put the conditioner in contact with water. The electrical insulation could be damaged and thus causing electrocution.
- Do not climb onto or place any objects on the outdoor unit.
- Never insert a stick or similar object into the appliance. It could cause injury.
- Children should be supervised to ensure that they do not play with the appliance.

Overview

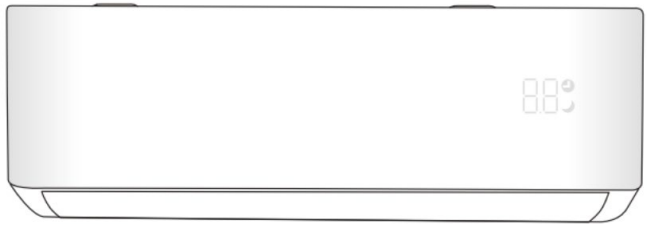
Indoor & Outdoor Units



Note:

All images shown are for illustrative purposes only. The actual products or components may differ slightly.

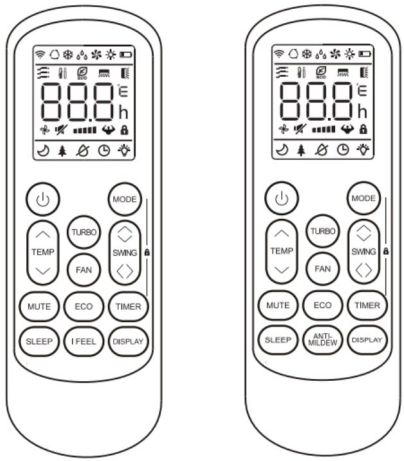
Indoor Display



No.	LED	Function
1		Indicator for timer, temperature and error code.
2		Lights up during timer operation.
3		Sleep mode.

The shape and position of switches and indicators may be different depending on the model, however their functions are the same.

Remote Control



Remote Display

Symbol	Function
	Battery indicator
	Auto mode
	Cooling mode
	Dry mode
	Fan only mode
	Heating mode
ECO	ECO mode
	Timer
8.8 °E	Temperature indicator
	Fan speed: Auto/low/low-mid/mid/ mid-high/high
	Mute
	TURBO function

	Up-down auto swing
	Left-right auto swing
	SLEEP function
	Health function
	I FEEL function
	Signal indicator
	Gentle wind
	Child-Lock
	Display ON/OFF
	Anti-mildew

The display and some functions of the remote control may vary depending to the model.

Button	**Function**
	To turn the air conditioner ON/OFF.
	To increase temperature or Timer setting hours.
	To decrease temperature or Timer setting hours.
MODE	To select the mode of operation (AUTO, COOL, DRY, FAN, HEAT).
ECO	To activate/deactivate the ECO function.
	Long press to activate/deactivate the 8-heating function (depending on models).
TURBO	To activate/deactivate the TURBO function.
FAN	To select the fan speed of auto/low/mid/high.
TIMER	To set the time for timer on/off.
SLEEP	To switch-on/off the function SLEEP.

DISPLAY	To switch-on/off the LED display.
SWING ⇕	To stop or start vertical louver movement or set the desired up/down air flow direction.
SWING ⇔	To stop or start horizontal louver movement or set the desired left/right air flow direction.
I FEEL	To switch the 'I FEEL' function ON/OFF.
MUTE	To switch the 'MUTE' function ON/OFF.
	Long press to activate/deactivate the GEN function (depending on models).
ANTI-MILDEW	To switch the 'ANTI-MILDEW' function ON/OFF.
MODE+TIMER	To activate/deactivate the CHILD-LOCK function.
SWING ⇕ + SWING ⇔	To activate/deactivate the SELF-CLEAN function (depending on models).
FAN + MUTE	To activate/deactivate the GENTLE WIND function (depending on models).
SLEEP + DISPLAY	To activate/deactivate the HEALTH function (depending on models).

The display and some functions of the remote control may vary according to the model.

The shape and position of buttons and indicators may vary according to the model, but their function is the same.

The unit confirms input of each button with the beep.

Installation

Important Considerations

- The air conditioner must be installed by a licensed professional.
- Take care, when filling the combustible refrigerant, incorrect handling may cause serious injury or injuries to human body and objects.
- A leak test must be done after the installation is completed.
- It is a must to do the safety inspection before maintaining or repairing an air conditioner using combustible refrigerant to ensure that the fire risk is reduced to minimum.
- It is necessary to operate the machine under a controlled procedure to ensure that any risk arising from the combustible gas or vapor during the operation is reduced to minimum.
- Requirements for the total weight of filled refrigerant and the area of a room to be equipped with an air conditioner (are shown as in the following Tables 1 and 2)

The maximum charge and the required minimum floor area:

$m_1 = (4m^3) \times LFL$, $m_2 = (26\ m^3) \times LFL$, $m_3 = (130\ m^3) \times LFL$

Where (LFL) is the lower flammable limit in kg/m^3, R32 LFL is 0.306 kg/m^3.

For the appliances with a charge amount $m_1 < M = m_2$:

The maximum charge in a room shall be in accordance with the following:

$m_{max} = 2.5 \times (LFL)^{5/4} \times h_0 \times (A)^{1/2}$

The required minimum floor area (A) to install an appliance with refrigerant charge M (kg) shall be in accordance with following: $A = (M/ (2.5 \times (LFL)^{5/4} \times h_0)^2$

Table 1 – Maximum charge (kg)

Where:

Cate-gory	LFL (kg/ m)^3	h_0 (m)	Floor area (m)^2						
			4	7	10	15	20	30	50
R32	0.306	1	1.14	1.51	1.8	2.2	2.54	3.12	4.02
		1.8	2.05	2.71	3.24	3.97	4.58	5.61	7.254
		2.2	2.5	3.31	3.96	4.85	5.6	6.86	8.85

Table 2 – Minimum room area (m)^2

Cate-gory	LFL (kg/ m)^3	h_0 (m)	Charge amount (M) (kg) Minimum room area (m)^2						
			1.22 4kg	1.83 6kg	2.44 8kg	3.67 2kg	4.89 6kg	6.12 kg	7.956 kg
R32	0.306	0.6		29	51	116	2.6	321	543
		1		10	19	42	74	116	196
		1.8		3	6	13	23	36	60
		2.2		2	4	9	15	24	40

Installation Safety Principles

1. Site Safety

Open Flames Prohibited

Ventilation Necessary

2. Operation Safety

Mind Static Electricity

Must wear protective clothing & anti-static gloves

Don't use mobile phone

3. Installation Safety

- Refrigerant Leak Detector
- Appropriate Installation Location

Installation Notes:

- The installation site should be well-ventilated.
- The sites for installing and maintaining an air conditioner using Refrigerant R32 should be free from open fire or welding, smoking, drying oven or any other heat source higher than 548 which easily produces open fire.
- When installing an air conditioner, it is necessary to take appropriate anti-static measures such as wear anti-static clothing and/or gloves.
- It is necessary to choose the site convenient for installation or maintenance wherein the air inlets and outlets of the indoor and outdoor units should be not surrounded by obstacles or close to any heat source or combustible and/or explosive environment.
- If the indoor unit suffers refrigerant leak during the installation, it is necessary to immediately turn off the valve of the outdoor unit and all the personnel should go out till the refrigerant leaks completely for 15 minutes. If the product is damaged, it is a must to carry such damaged product back to the maintenance station and it is prohibited to weld the refrigerant pipe or conduct other operations on the user's site.
- It is necessary to choose the place where the inlet and outlet air of the indoor unit is even.
- It is necessary to avoid the places where there are other electrical products, power switch plugs and sockets, kitchen cabinets, bed, sofa and other valuables right under the lines on either side of the indoor unit.

Tools Required

Spanner

Pipe cutter

Vacuum pump

Adjustable wrench

Screw drivers

Safety glasses

Torque wrench

Manifold and gauges

Work gloves

Allen keys

Spirit level

Refrigerant scale

Drill & drill bits

Flaring tool

Micron gauge

Hole saw

Clamp on amp meter

Pipe Length and Additional Refrigerant

Inverter Models Capacity (Btu/h)	9K-12K		18K-36K	
Length of pipe with standard charge	5m/16ft	5m/16ft	5m/16ft	5m/16ft
Length of pipe with standard charge (Like: North American, etc.)	7.5m/24ft	7.5m/24ft	7.5m/24ft	7.5m/24ft
Maximum distance between indoor and outdoor unit	15m/49ft	15m/49ft	20m/65ft	30m/98ft
Additional refrigerant charge	20g/m	15g/m	30g/m	25g/m
Max. diff. in level between indoor and outdoor unit	10m/32ft	10m/32ft	15m/48ft	20m/65ft
Type of refrigerant	R22/R410A	R32	R22/R410A	R32
ON-OFF Models Capacity (Btu/h)	**9K-12K**		**18K-36K**	
Length of pipe with standard charge	5m/16ft	5m/16ft	5m/16ft	5m/16ft4
Maximum distance between indoor and outdoor unit	15m/16ft	5m/49ft	15m/49ft	15m/49ft
Additional refrigerant charge	20g/m	15m/49ft	30g/m	25g/m
Max. diff. in level between indoor and outdoor unit	5m/22ft	5m/35ft	5m/32ft	5m/32ft
Type of refrigerant	R22/R410A	R32	R22/R410A	R32

Torque Parameters

PIPE Size	Newton meter [N x m]	Pound-force foot (lbf-ft)	Kilogram-force meter (kgf-m)
1/4 (06.35)	15-20	11.1-14.8	1.5-2.0
3/8 (09.52	31-35	22.9-25.8	3.2-3.6
1/2 (12)	45-50	33.2-36.9	4.6-5.1
5/8 (15.88)	60-65	44.3-48.0	6.1-6.6

Dedicated Distribution Device and Wire for Air Conditioner

Maximum Operating Current of Air Conditioner (A)	Minimum Wire Cross-sectional 2 Area (mm)2	Specification of Socket or Switch (A)	Fuse Specification (A)
≤8	0.75	15	15
>8 and ≤10	1.0	15	15
>10 and ≤15	1.5	20	25
>15 and ≤24	2.5	25	40
>24 and ≤28	4.0	35	45
>28 and ≤32	6.0	40	55

Note:

This table is only for reference; the installation shall meet the requirements of local laws and regulations.

Refrigerant Piping Size

Inlet Copper Pipe Diameter (mm)	Outlet Copper Pipe Diameter (mm)	Standard Pipe Length (m)	Max. Pipe Length (m)	Max. Installation Fall (m)
6.35	12.7	5	15	5

Indoor Unit Installation

Step 1: Select Installation location

1. Ensure the installation complies with the installation minimum dimensions (Figure 1.) and meets the minimum and maximum connecting piping length and maximum change in elevation as defined in the System Requirements section.
2. Air inlet and outlet will be clear of obstructions, ensuring proper airflow throughout the room.
3. Condensate can be easily and safely drained.
4. All connections can be easily made to outdoor unit.
5. Indoor unit is out of reach of children.
6. A mounting wall strong enough to withstand four times the full weight and vibration of the unit.
7. Filter can be easily accessed for cleaning.
8. Leave enough free space to allow access for routine maintenance.
9. Install at least 10ft. (3m) away from the antenna of TV set or radio. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is weak. An amplifier may be required for the affected device.
10. Do not install in a laundry room or by a swimming pool due to the corrosive environment.
11. For ETL certification area, Caution: Mount with the lowest moving parts at least 8ft. (2.4m) above floor or grade level.

Minimum Indoor Clearances

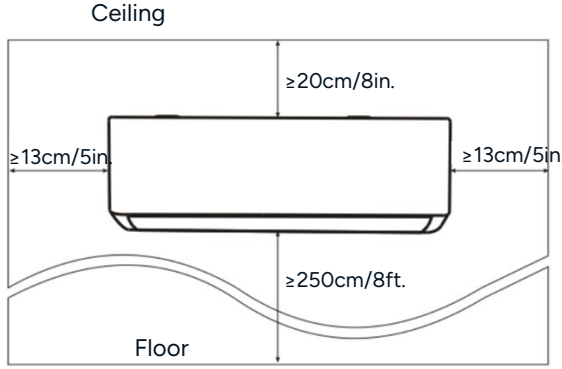
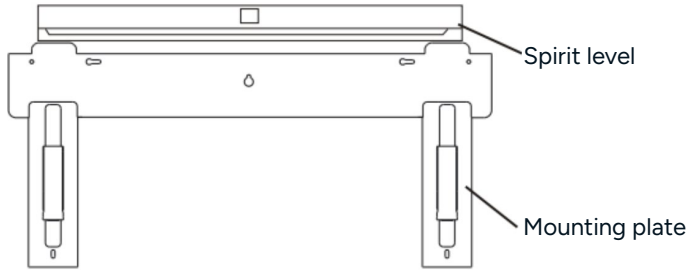
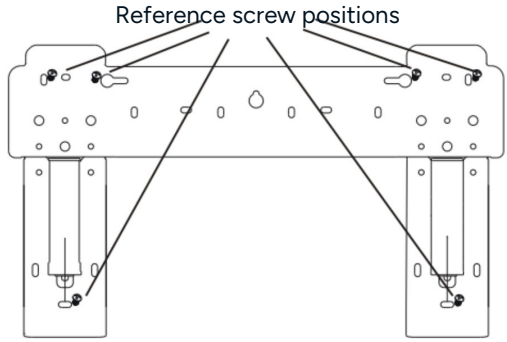


Figure 1

Step 2: Install Mounting Plate

1. Take the mounting plate from the rear of the indoor unit.
2. Ensure to meet the minimum installation dimension requirements as step 1, according to the size of the mounting plate, determine the position and stick the mounting plate close to the wall.
3. Adjust the mounting plate to a horizontal state with a spirit level, then mark out the screw hole positions on the wall.
4. Put down the mounting plate and drill holes in the marked positions using a drill.
5. Insert expansion rubber plugs into the holes, then hang the mounting plate and fix it with screws.





Notes:

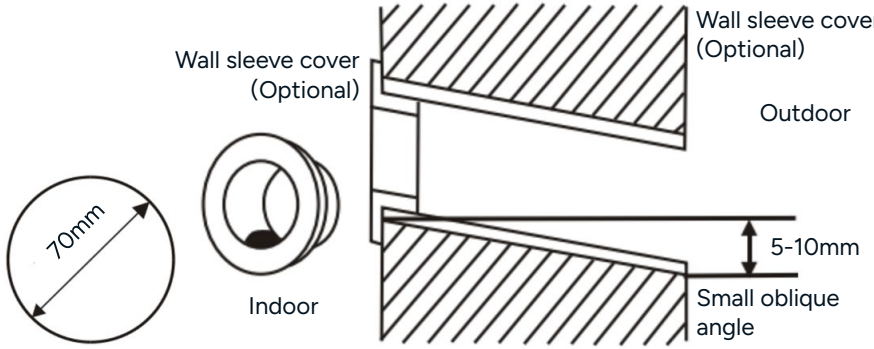
- Make sure the mounting plate is firm enough and flat against the wall after installation.
- This figure shown may be different from the actual object, please take the latter as the standard.

Step 3: Drill Wall Hole

A hole in the wall should be drilled for refrigerant piping, the drainage pipe and connecting cables.

1. Determine the location of wall hole base on the position of mounting plate.
2. The hole should have a 70mm diameter at least and a small oblique angle to facilitate drainage.
3. Drill the wall hole with 70mm core drill and with small oblique angle lower than the indoor end about 5mm to 10mm.
4. Place the wall sleeve and wall sleeve cover (both are optional parts) to protect the connection parts.

Caution: When drilling the wall hole, ensure to avoid wires, plumbing and other sensitive components.

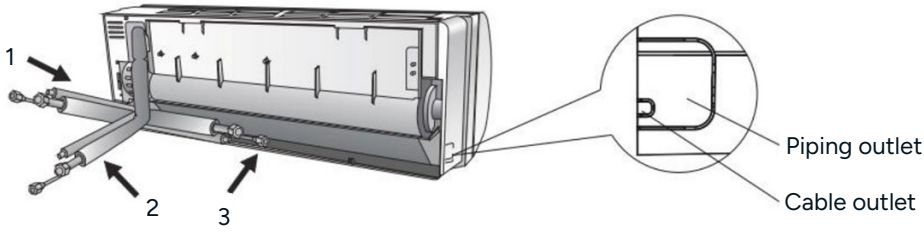


Step 4: Connecting Refrigerant Pipe

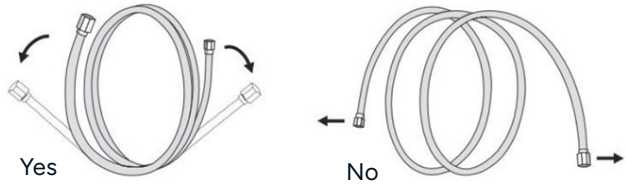
1. According to the wall hole position, select the appropriate piping mode. There are three optional piping modes for indoor units (as shown in the illustration on the next page):
    - In Piping Mode 1 or Piping Mode 3, a notch should be made by using scissors to cut the plastic sheet of piping outlet and cable outlet on the corresponding side of the indoor unit.

Note:

When cutting off the plastic sheet at the outlet, the cut should be trimmed to smooth.



2. Bending the connecting pipes with the port facing up as shown in the figure



3. Take off the plastic cover in the pipe ports and take off the protective cover on the end of piping connectors.

4. Check whether there is any dirt or debris on the port of the connecting pipe and make ensure the port is clean.

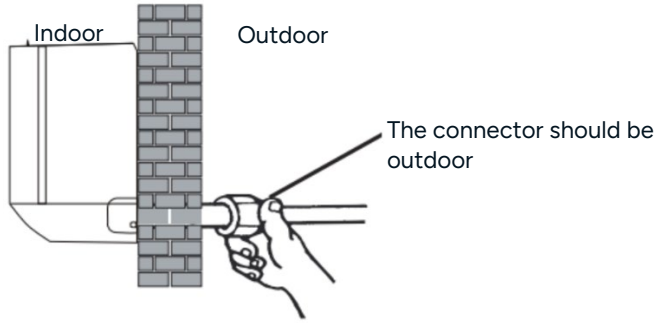
5. After aligning the center, rotate the nut of the connecting pipe to tighten the nut as tightly as possible by hand.

6. Use a torque wrench to tighten it according to the torque values (refer to the torque requirements table).

7. Wrap the joint with the insulation pipe.

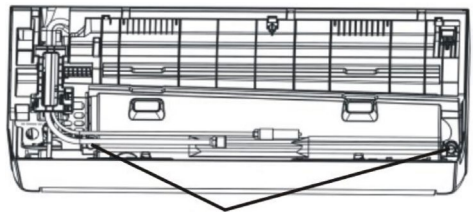
Note:

For R32 refrigerant, the connector should be placed outdoors.



Step 5: Connect Drainage Hose

1. Adjust the drainage hose (if applicable) in some models, both sides of the indoor unit are provided with drainage ports, you can choose one of them to attach the drainage hose. Plug the unused drain port with the rubber stopper attached in one of the ports.

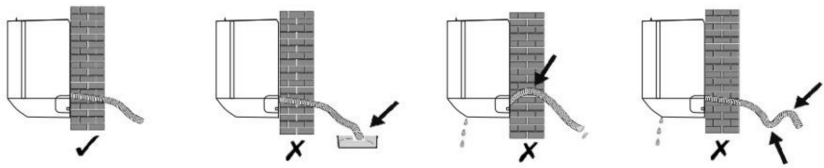


Drainage ports

2. Connect the drainage hose to the drainage port, ensure the joint is firm and the sealing effect is good.
3. Wrap the joint firmly with Teflon tape to ensure no leaks.

Note:

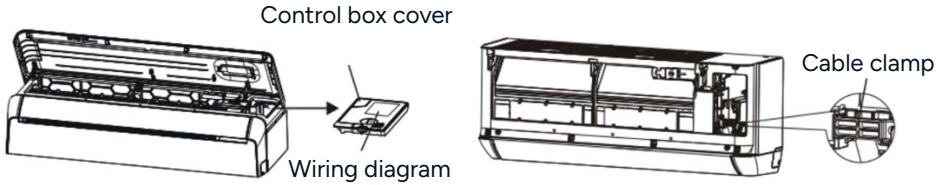
Ensure there is no twists or dents and the pipes should be placed obliquely downward to avoid blockage, to ensure proper drainage.



Step 6: Connect Wiring

Choose the right cables size determined by the maximum operating current on the nameplate (refer to Dedicated Distribution Device and Wire for Air Conditioner table).

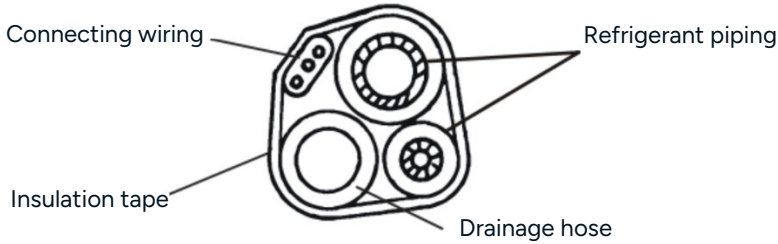
1. Open the front panel of indoor unit.
2. Use a screwdriver, open the electric control box cover, to reveal the terminal block.
3. Unscrew the cable clamp.
4. Insert one end of the cable into the position of control box from the back of the right end of the indoor unit.
5. Connect the wires to the corresponding terminal according to the wiring diagram on the electric control box cover. Ensure that the wires are well connected.
6. Screw the cable clamp to fasten the cables.
7. Reinstall the electric control box cover and front panel.



Step 7: Wrap Piping and Cable

After the refrigerant pipes, connecting wires and drainage hose are all installed, to save space, protect and insulate them, it must be bundle with insulation tape before passing them through the wall hole.

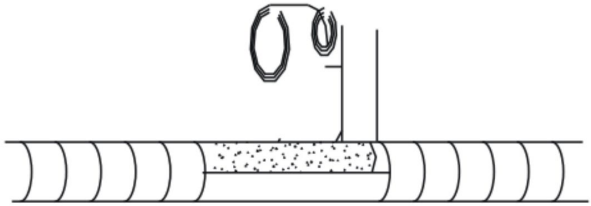
1. Arrange the pipes, cables and drainage hose according to the illustration below.



Notes:

- Ensure the drainage hose is at the bottom.
- Avoid crossing and bending of parts.

2. Using the insulation tape wrap the refrigerant pipes, connecting wires and drainage hose together tightly.



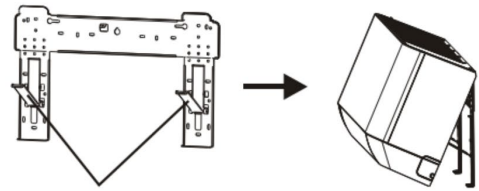
Step 8: Mount Indoor Unit

1. Slowly pass the refrigerant pipes, connecting wires and drainage hose wrapped bundle through the wall hole.
2. Hook the top of the indoor unit on the mounting plate.
3. Apply slight pressure to the left and right sides of the indoor unit, make sure the indoor unit is hooked firmly.
4. Push down the bottom of the indoor unit until it snaps onto the hooks of the mounting plate ensuring it is securely in place.

If the refrigerant pipes were already embedded in the wall or if you intend to connect the pipes and wires on the wall, follow the steps below:

1. Grab both ends of the bottom plate, apply a little outward force to remove the bottom plate.
2. Hook the top of the indoor unit on the mounting plate without piping and wiring.
3. Lift the indoor unit opposite the wall, unfold the bracket on the mounting plate and use this bracket to prop up the indoor unit, this will allow for more space for operation.
4. Connect the refrigerant piping, wiring, drainage hose and wrap them as shown in Step 4 to 7.
5. Replace the bracket on the mounting plate.
6. Push down the bottom of the indoor unit until it snaps onto the hooks of the mounting plate ensuring it is securely in place.
7. Replace the bottom plate of the indoor unit.

Take off the bottom plate



Unfold the bracket on the mounting plate

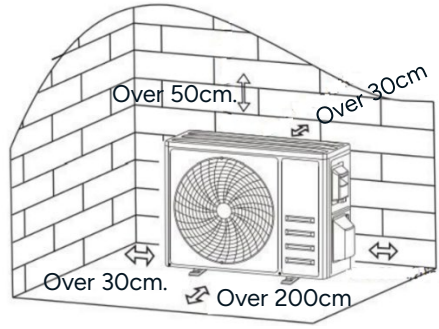
Outdoor Unit Installation

Attention: Remove the paperboard from the outdoor unit before installation.

Step 1: Select Installation Location

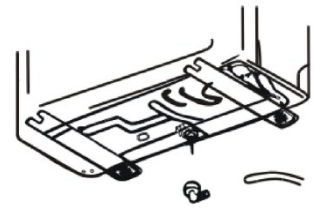
Select a site that allows for the following:

1. Do not install the outdoor unit near sources of heat, steam or flammable gas.
2. Do not install the unit in windy or dusty places.
3. Do not install the unit where people often pass. Select a place where the air discharge and operating sound will not disturb neighbors.
4. Avoid installing the unit where it will be exposed to direct sunlight, otherwise install a protective visor (not supplied), if necessary. Ensure the visor does not interfere with the air flow.
5. Reserve the spaces as shown in the picture below that allows air to circulate freely.
6. Install the outdoor unit in a safe and stable place.
7. If the outdoor unit is subject to vibration, place a rubber mat onto the feet of the unit.



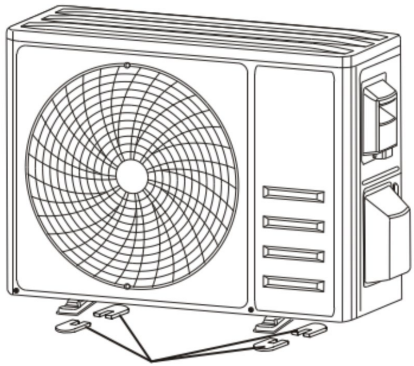
Step 2: Install Drainage Hose: This step is only for heating pump models.

1. Insert the drainage joint to the hole at the bottom of the outdoor unit.
2. Connect the drainage hose to the joint ensuring a tight connection.



Step 3: Fix Outdoor Unit

1. According to the outdoor unit installation dimensions, mark the installation position for the expansion bolts.
2. Drill holes and clean the concrete dust and place the bolts.
3. If applicable install 4 rubber stops on the hole before place the outdoor unit (Optional). This will reduce vibrations and noise.
4. Place the outdoor unit base on the bolts and pre-drilled holes.
5. Use wrench to fix the outdoor unit firmly with bolts.



Install 4 rubber stops (Optional)

Note:

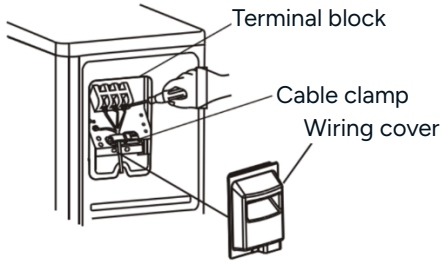
The outdoor unit can be fixed on a wall-mounting bracket. Follow the instruction of the wall-mounting bracket to fix the wall-mounting bracket on the wall and then fasten the outdoor unit on it and keep it horizontal. The wall-mounting bracket must be able to support at least 4 times of the weight of the outdoor unit.

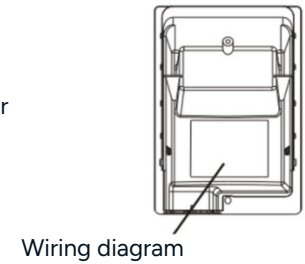
Step 4: Install Wiring

1. Use a Phillips screwdriver to unscrew the wiring cover, grasp and press it down gently to remove it.
2. Unscrew the cable clamp and take it down.
3. According to the wiring diagram pasted inside the wiring cover, connect the connecting wires to the corresponding terminals and ensure all connections are firmly and securely installed.
4. Reinstall the cable clamp and wiring cover.

Note:

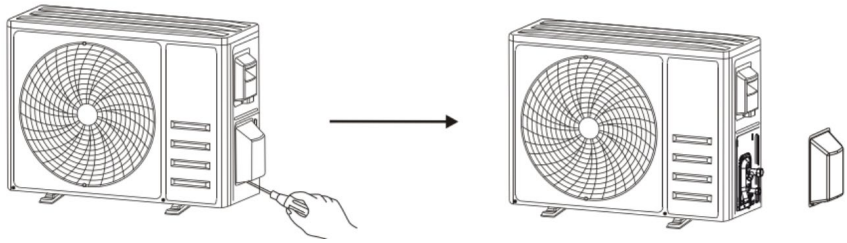
When connecting the wires of indoor and outdoor units, the mains power should be cut off.



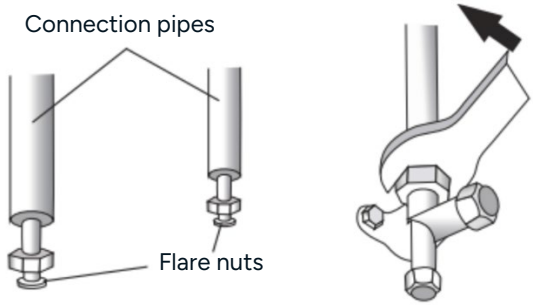


Step 5: Connecting Refrigerant Pipe

1. Unscrew the valve cover, grasp and press it down gently to remove it (if the valve cover is applicable).
2. Remove the protective caps from the end of the valves.
3. Remove the plastic cover in the pipe ports and check whether there is any dirt or debris on the port of the connecting pipe and make ensure the port is clean.
4. After aligning the Centre, rotate the flare nut of the connecting pipe to tighten the nut by hand as firmly as possible.
5. Using a spanner, hold the body of the valve and use a torque wrench to tighten the flare nut (refer to the torque requirements table).

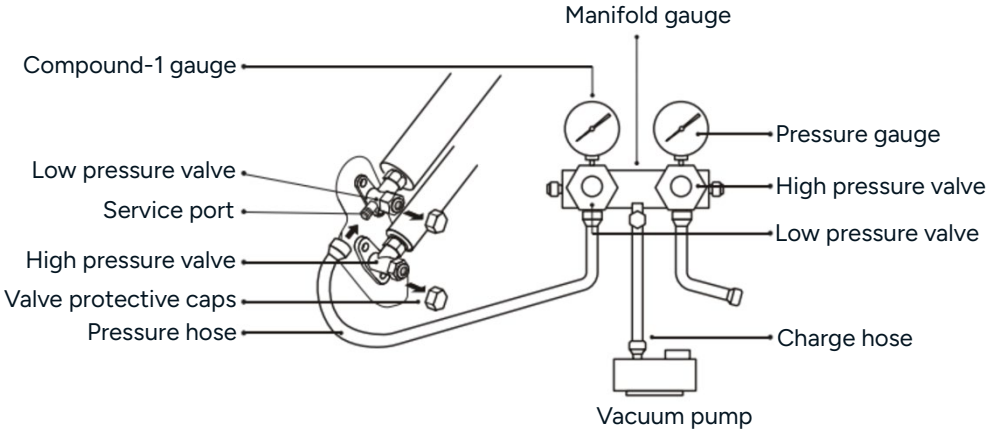


Takes down the valve cover



Step 6: Vacuum Pumping

1. Use a spanner to remove the protective caps from the service port, low pressure valve and high-pressure valve of the outdoor unit.
2. Connect the pressure hose on the manifold gauge to the service port on the outdoor unit low pressure valve.
3. Connect the charge hose from the manifold gauge to the vacuum pump.
4. Open the low-pressure valve of the manifold gauge and close the high-pressure valve.
5. Turn on the vacuum pump to vacuum the system
6. The vacuum time should not be less than 15 minutes or make sure the compound gauge reads -0.1MPa (-76cmHg)
7. Close the low-pressure valve of the manifold gauge and turn off the vacuum.
8. Hold the pressure for 5 minutes, make sure that the rebound on the compound gauge pointer does not exceed 0.005 MPa.
9. Open the low-pressure valve counter clockwise 1/4 turn with a hexagonal wrench to let a little refrigerant fill in the system and close the low-pressure valve after 5 seconds and quickly remove the pressure hose.
10. Check all indoor and outdoor joints for leakage with soapy water or using a leak detector.
11. Fully open the low-pressure valve and high-pressure valve of the outdoor unit with a hexagonal wrench.
12. Reinstall the protective caps of the service port, low pressure valve and high-pressure valve of the outdoor unit.
13. Reinstall the valve cover.



Before First Use

Inspections Before Test Run

Do the following checks before test run.

Description	Inspection method
Electrical safety inspection	• Check whether the power supply voltage complies with specification. • Check whether there is any wrong or missing connection between the power lines, signal line and earth wires. • Check whether the earth resistance and insulation resistance comply with requirements.
Installation safety inspection	• Confirm the direction and smoothness of the drainage pipe. • Confirm that the joint of the refrigerant pipe is installed completely. • Confirm the safety of the outdoor unit, mounting plate and indoor unit installation. • Confirm that the valves are fully open. • Confirm that there are no foreign objects or tools left inside the unit. • Complete installation of indoor unit air inlet grille and panel.
Refrigerant leakage detection	The piping joint, the connector of the two valves of the outdoor unit, the valve spool, the welding port, etc., where leakage may occur. Foam detection method: Apply soapy water or foam evenly on the parts where leakage may occur and observe whether bubbles appear or not, if not, it indicates that the leakage detection result is safe. Leak detector method: • Use a professional leak detector to detect at the position where leakages may occur. • The duration of leak detection for each position should last for 3 minutes or more; If the test result shows that there is leakage, the nut should be tightened and tested again until there is no leakage; After the leak detection is completed, wrap the exposed pipe connector of indoor unit with thermal insulation material and wrap with insulation tape.

Test Run

1. Turn on the power supply.
2. Press the ON/OFF button on the remote control to turn on the air conditioner.
3. Press the Mode button to switch the mode between COOL and HEAT. In each mode set as below:
    - COOL-Set the lowest temperature
    - HEAT-Set the highest temperature.
4. Run for approximately 8 minutes in each mode and check all functions are properly run and respond to the remote controller. Functions check as recommended:
    - If the outlet air temperature responds to the cool and heat mode.
    - If the water drains properly from the drainage hose.
    - If the louver and deflectors (optional) rotate properly.
5. Observe the test run state of the air conditioner for at least 30 minutes.
6. After a successful test run, return the normal setting and press ON/OFF button on the remote control to turn off the unit.
7. Inform the user to read this guide carefully before use and demonstrate to the user how to use the air conditioner, the necessary knowledge for service and maintenance and the reminder for storage of accessories.

Note:

If the ambient temperature exceeds the range, refer to section OPERATION section. If it cannot run COOL or HEAT mode, lift the front panel and refer to the emergency button operation to run the COOL and HEAT mode.

Connect to the SmarterHome™ App

Install the App

Download the Kogan SmarterHome™ app from the Apple App Store (iOS) or the Google Play Store (Android).

App Store (iOS)

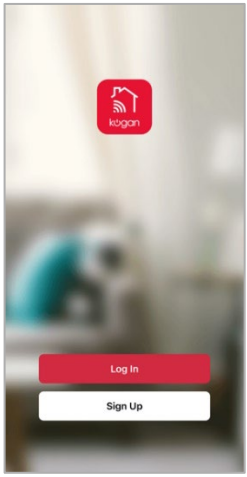
Download on the App Store

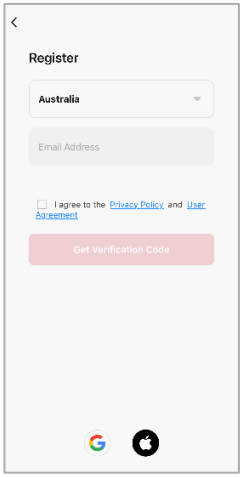
Play Store (Android)

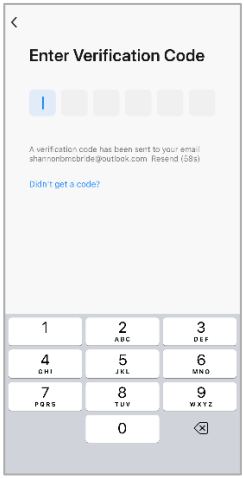
GET IT ON Google Play

Log In or Sign Up

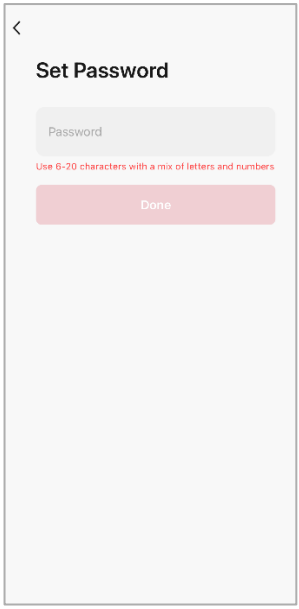
1. If you already have a SmarterHome account, tap 'Log In'. To register a new account, tap 'Sign Up'.
2. The app will automatically recognise your country. If needed, you can manually select your country from the drop down menu. Enter your email address, agree to the Privacy Polics and User Agreement, and tap 'Get Verification Code' to continue.
3. A 6-digit code will be sent to the submitted email address. Enter the code before the one-minute timer expires.

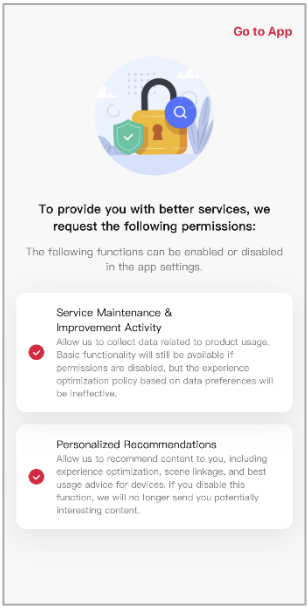


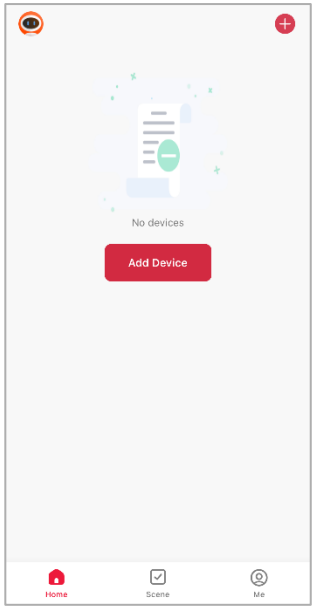




4. Enter a password that uses 6-20 characters with a mix of letters and numbers and tap ‘Done’.
5. Enable the permissions and tap ‘Go to App’.







Set the Device in Pairing Mode

When the device is first turned on, it may automatically enter pairing mode (the device beeps twice and the indoor unit display shows "CF" code).

If not automatically in pairing mode when powered on, you can manually set the device in pairing mode by pressing the "Display" button on the remote controller 6 times within 8 seconds until the device beeps twice and the indoor unit display shows "CF" code.

Add the Device to the App

1. Open the SmarterHome™ app.
2. Tap the '+' icon in the top right corner of the screen and then tap 'Add Device'.
3. Tap 'Add' when the device appears. Alternatively, select the product type from the list of options in the app (Heating & Cooling > Air Conditioners).
4. Follow the prompts to add your device to the app.

Notes:

- The device and the app must use the same Wi-Fi network.
- The device is only compatible with 2.4Ghz networks.

Having Trouble Connecting?

The prior steps detail the process for ‘EZ Mode’ connection. If that does not work for your connection, we suggest trying it again, and if still no success, attempting the following method for AP Mode connection.

Set the Device in AP Pairing Mode

Set the device in pairing mode by pressing the "Display" button on the remote controller 6 times within 8 seconds until the device beeps twice and the indoor unit display shows "CF" code.

Add the Device to the App

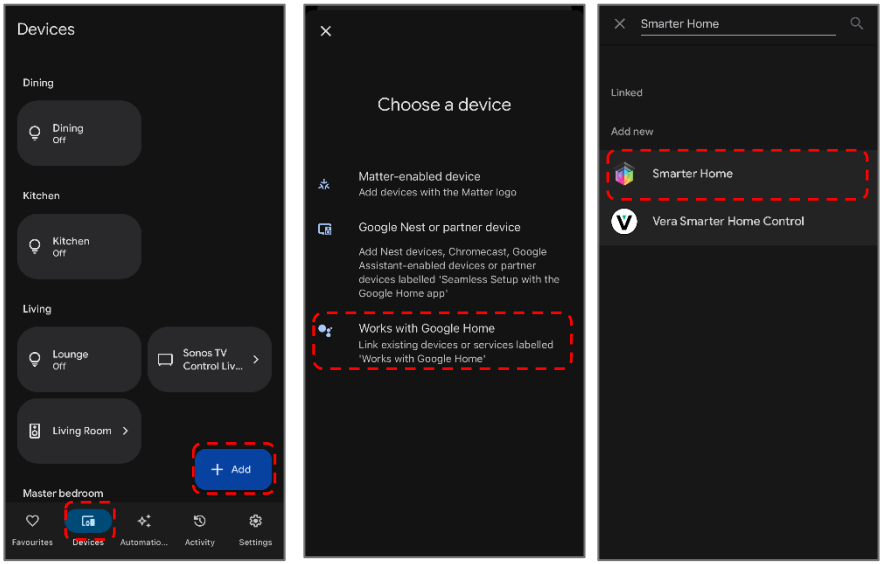
When the device is in AP pairing mode, follow the previous steps to add the device to the app.

Connectivity Support

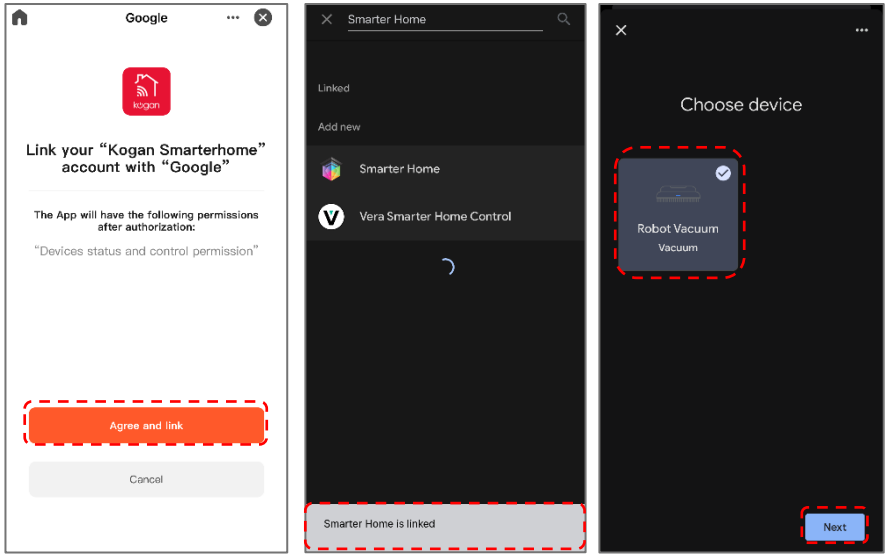
Scan the QR code below or go to https://help.kogan.com/s/article/Kogan-SmarterHome-App-Connectivity-Support and follow the pairing instructions for EZ or AP mode.

Google Home

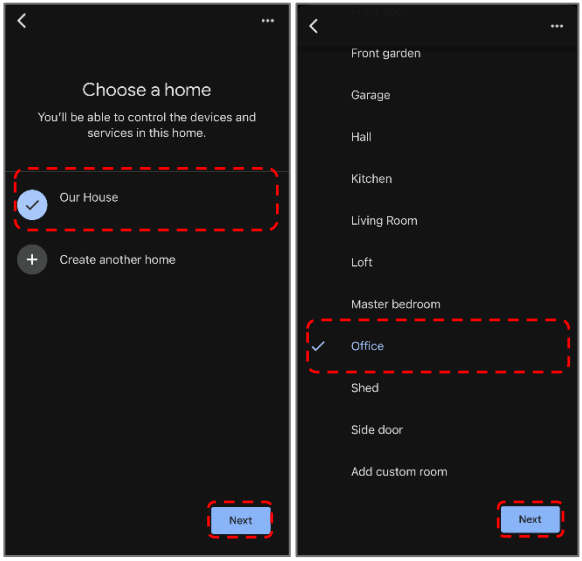
1. Ensure you are logged into the Kogan SmarterHome™ app.
2. Open the Google Home app.
3. Go to the devices tab and tap the '+ Add' button in the lower right corner.
4. Tap 'Works with Google Home'.
5. Search for 'Smarter Home' in the search bar and select 'Smarter Home' from the results.



6. Tap the ‘Agree and link’ button.
7. Search for ‘Smarter Home’ in the search bar and select ‘Smarter Home’ from the results.
8. Once linked, a ‘Smarter Home is linked’ pop-up will appear at the bottom of the screen.
9. Tap your device and then tap the ‘Next’ button.

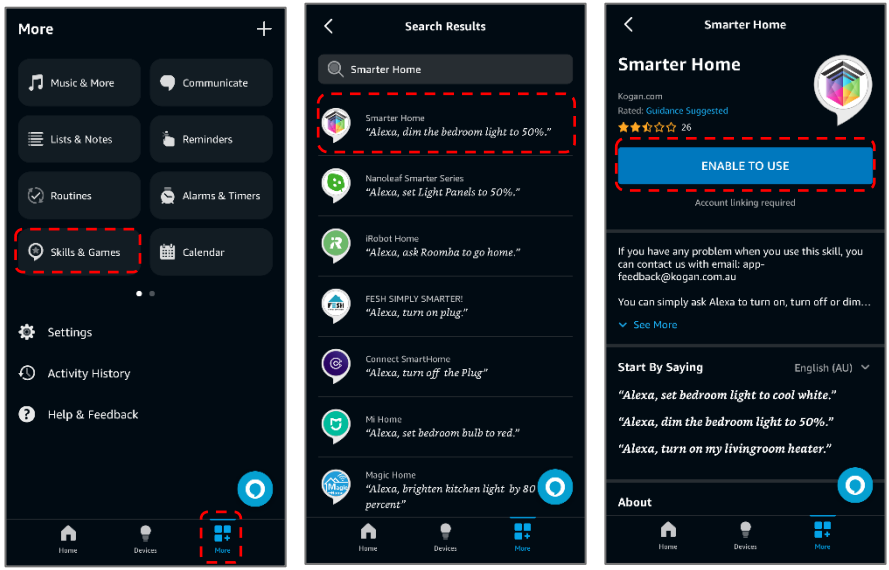


10. Select the home you wish to add the device to and tap the ‘Next’ button.
11. Select the room your device is in and tap the ‘Next’ button.

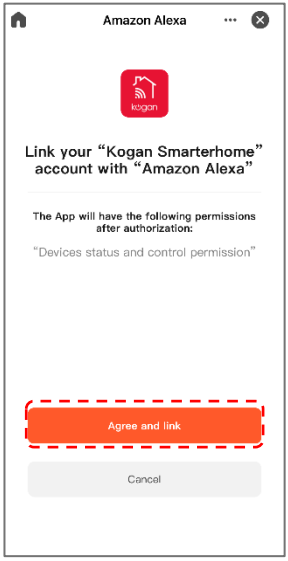


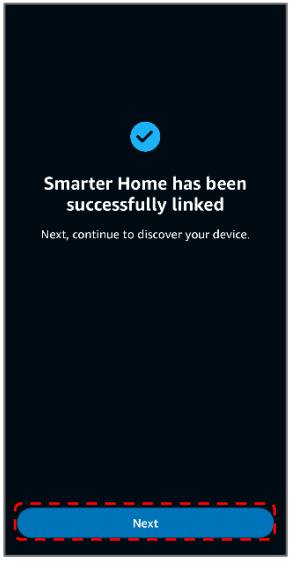
Amazon Alexa

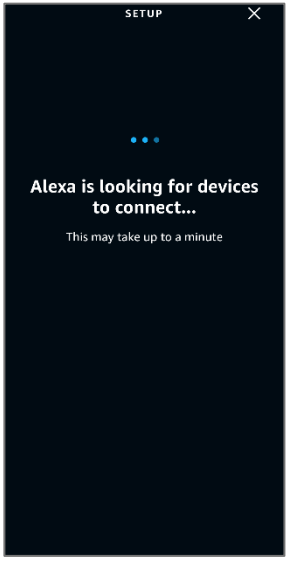
1. Ensure you are logged into the Kogan SmarterHome™ app.
2. Open the Amazon Alexa app.
3. Go to the ‘More’ tab and tap ‘Skills & Games’.
4. Search for ‘Smarter Home’ in the search bar and select ‘Smarter Home’ from the results.
5. Tap the ‘ENABLE TO USE’ button.



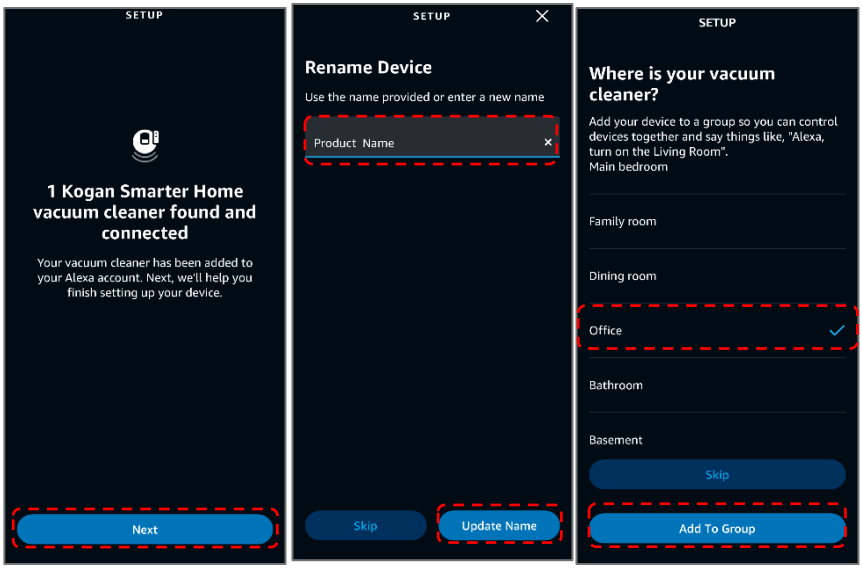
6. Tap the ‘Agree and link’ button.
7. Once linked, tap ‘Next’. Alexa will search for any compatible devices.



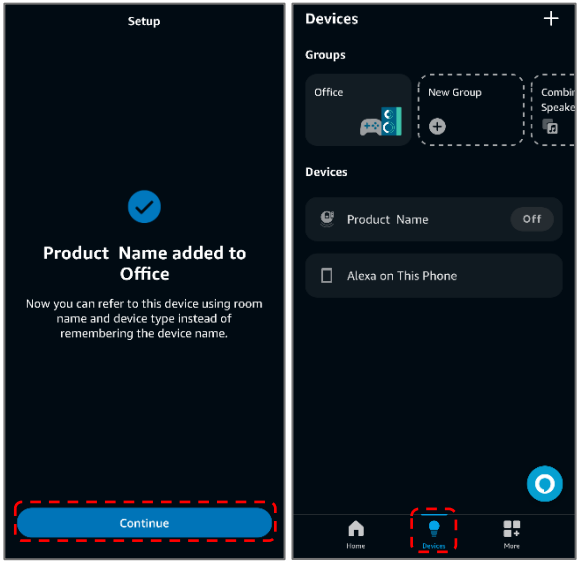




8. Once your device has been found, tap ‘Next’.
9. Rename the device to your desired name and tap ‘Update Name’.
10. Select the room your device is in and tap ‘Add To Group’



11. Once the device has been successfully added to your desired room, tap ‘Continue’.
12. You can view and manage your device from the ‘Devices’ tab.



Operation

Note:

Attempting to use the air conditioner under the temperature beyond the specified range may cause the air conditioner protection device to start and the air conditioner may fail to operate. Therefore, try to use the air conditioner in the following temperature conditions.

Fixed air conditioner

Temperature/MODE	Heating	Cooling	Dry
Room temperature	0°C-27°C (32°F~80°F)	17°C-32°C (63°F-90°F)	
Outdoor temperature	-70°C-240°C (19°F-75°F)	T1 climate: 15°C-43°C (59°F~109°F)	
		T3 climate: 15°C-52°C (59°F-125°F)	

Inverter air conditioner

Temperature/MODE	Heating	Cooling	Dry
Room temperature	0°C-27°C (32°F-80°F)	17°C-32°C (63°F~90°F)	
Outdoor temperature	-15°C-24°C (5°F-75°F) (Low temperature heating: -20°C-24°C (-4°F-75°F)	T1 climate: 15°C~50°C (59°F-122°F) (Low temperature cooling: -15°C~50°C (5°F~122°F)	
		T3 climate: 15°C-55°C (59°F~131°F)	

With the power supply connected, restart the air conditioner after shutdown or switch it to another mode during operation and the air conditioner protection device will start. The compressor will resume operation after 3 minutes.

Characteristics of heating operation (applicable to Heating pump)

Preheating

When the heating function is enabled, the indoor unit will take 2-5 minutes for preheating, after that the air conditioner will start heating and blows warm air.

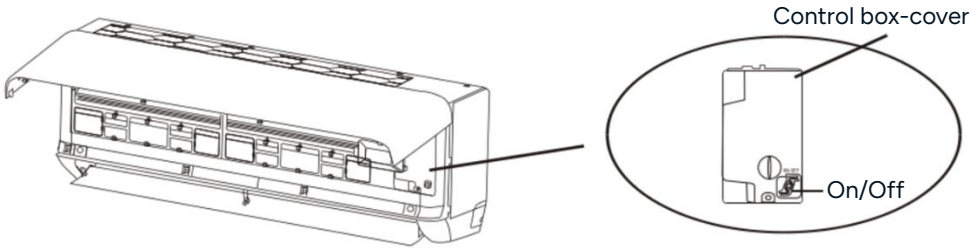
Defrosting

During heating, when the outdoor unit frosted, the air conditioner will enable the automatic defrosting function to improve the heating effect. During defrosting, the indoor and outdoor fans stop running. The air conditioner will resume heating automatically after defrosting finish.

Emergency button

Open the panel and find the emergency button on the electronic control box when the remote controller fails (always press the emergency button with insulation material).

Current status	Operation	Respond	Enter mode
Standby	Press the emergency button once	It beeps briefly once.	Cooling mode
Standby (Only for heating pump)	Press the emergency button twice in 3 seconds	It beeps briefly twice	Heating mode
Running	Press the emergency button once	It keeps beeping for a while	Off mode

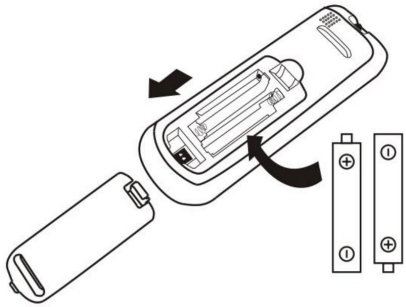


(Open the panel of indoor unit.)

Replacement of Batteries

Remove the battery cover plate from the rear of the remote control, by sliding it in direction of the arrow. Install the batteries according to the direction (+ and -) shown on the Remote Control. Reinstall the battery cover by sliding it into place.

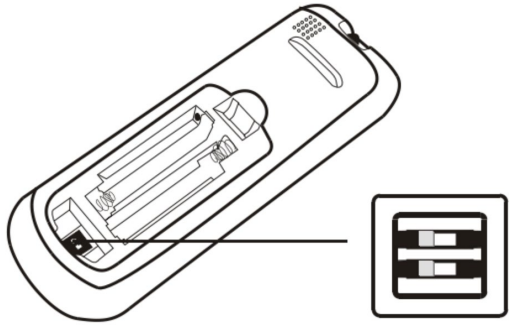
Use x2 AAA (1.5V) batteries. Do not use rechargeable batteries. Replace the old batteries with new ones of the same type when the display is no longer legible. Do not dispose batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.



Note:

For some models of the remote controller, open the battery cover and you can see the manual switch at the bottom, then you can select the Cooling only or Heating pump, operate as below.

DIP switch on position	Function
°C	The display is adjusted in degree Celsius.
°F	The display is adjusted in degree Fahrenheit.
Cool	The display is adjusted in only cooling mode
Heat	The display is adjusted in cooling and heating mode



1. Direct the remote control toward the Air conditioner.
2. Check that there are no objects between the remote control and the Signal receptor in the indoor unit.
3. Never leave the remote control exposed direct sunlight.
4. Keep the remote control at a distance of at least 1m from the television or other electrical appliances.

Cooling Mode COOL

The cooling function allows the air conditioner to cool the room and reduce Air humidity at the same time.

To activate the cooling function (COOL), press the MODE button until the symbol ❄ appears on the display. Use the button ∧ or ∨ to asset a temperature lower than that of the room.

Fan Mode (Not Fan button) FAN

Fan mode, air ventilation only. To set the FAN mode, press MODE until appears on the display.

Dry Mode DRY

This function reduces the humidity of the air to make the room more comfortable.

To set the DRY mode, press MODE until appears in the display. An automatic function of pre-setting is activated.

Auto Mode AUTO

Automatic mode.

To set the AUTO mode, press MODE until appears on the display. In AUTO mode the run mode will be set automatically according to the room temperature.

Heating Mode HEAT

The heating function allows the air conditioner to heat the room.

To activate the heating function (HEAT), press the MODE button until the symbol ☼ appears on the display.

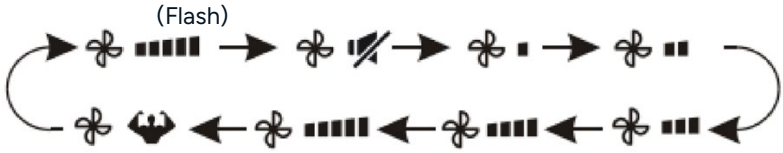
Use the button ∧ or ∨ to set a temperature higher than that of the room.

In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to clean the frost on the condenser to recover its heat exchange function. This procedure usually lasts for 2-10 minutes. During defrosting, the indoor unit fan stops operation. After defrosting, it resumes to HEATING mode automatically.

Fan Speed function (FAN button) FAN

Change the operating fan speed.

Press FAN button to cycle though the fan speeds. It can be set to:
AUTO/MUTE/LOW/LOW-MID/MID/MID-HIGH/HIGH/TURBO speed.



Child-Lock function

1. Long press MODE and TIMER button together to active this function and do it again to deactivate this function.
2. Under this function, no single button will active.

Timer function ---- Timer On TIMER

To automatic switch on the appliance. When the unit is switched off, you can set the TIMER ON.

To set the time of automatic switch-on as below:

1. Press TIMER button first time to set the switch-on ↻ and [60h] will appear on the remote display and flashes.
2. Press ∧ or ∨ to button to set desired Timer-on time. Each time you press the button, the time increases/decreases by half an hour between 0 and 10 hours and by one between 10 and 24 hours.
3. Press TIMER button a second time to confirm.

4. After Timer-on setting, set the desired mode (Cool/ Heat/ Auto/Fan/Dry), by press the MODE button. Set the desired fan speed, by pressing the FAN button. Press ^ or v to set the desired operation temperature.
5. CANCEL it by pressing TIMER button.

Timer function ---- Timer Off TIMER

Automatic switch off the appliance.

When the unit is switch-on, you can set the TIMER OFF. To set the time of automatic switch-off, as below:

1. Confirm the appliance is ON.
2. Press the TIMER button at first time to set the switch-off.
3. Press ^ or v to set the desired timer.
4. Press TIMER button a second time to confirm. CANCEL it by pressing TIMER button.

Note: All programming should be operated within 5 seconds, otherwise the setting will be cancelled.

Swing function SWING SWING

1. Press the SWING button to activate the louver,
    - Press SWING to activate the horizontal flaps to swing from up to down, press again to stop the swing movement at the current angle.
    - Press SWING to active the vertical deflectors to swing from left to right. Press again to stop the swing movement at the current angle.
2. If the vertical deflectors are positioned and placed under the flaps, they allow the air flow to move rightward or leftward.
3. For some inverter heating models, pressing horizontal SWING and vertical SWING buttons at the same time will activate the Self-Clean function.

- This adjustment must be done while the appliance is switched off.
- Never position Flaps manually, the delicate mechanism may be seriously damaged.
- Never put fingers, sticks or other objects into the air inlet or outlet vents. Such accidental contact with live parts might cause unforeseeable damage or injury.

Turbo function TURBO

To activate turbo function, press the TURBO button and will appear on the display. Press again to cancel this function. In COOL/HEAT mode, when you select TURBO feature, the appliance will quickly COOL or quickly HEAT and operate at the highest fan speed.

Mute function MUTE

1. Press MUTE button to active this function. The icon will appear on the remote display. Pressing the button gain will deactivate this function.
2. When the MUTE function runs, the remote controller will display the auto fan speed and the indoor unit will operate at the lowest fan speed.
3. If FAN, TURBO buttons are pressed, the MUTE function will be cancelled. MUTE function cannot be activated under dry mode.

Sleep function SLEEP

Pre-setting automatic operating program.

Press SLEEP button to activate the SLEEP function and again to cancel this function. Press appears on the display.

After 10 hours running in sleep mode, the air conditioner will change to the previous setting mode.

I Feel function (optional) I FEEL

Press I FEEL button to active the function, will appear on the remote display. Do it again to deactivate this function.

This function enables the remote control to measure the temperature at its current location and send this signal to the air conditioner to optimise the temperature.

It will automatically deactivate after 2 hours.

ECO function

In this mode the appliance automatically sets the operation to save energy.

Press the ECO button, appears on the display and the appliance will run in ECO mode. Press again to cancel it.

Note:

The ECO function is available in both COOLING and HEATING modes

Display function (Indoor display)

Switch ON/OFF the LED display on panel.

Press button to switch off the LED display on the panel. Press again to switch on the LED display.

Anti-Mildew function (optional)

Press button to activate the function, will appear on the display. Do it again to deactivate this function. After running COOL/DRY for more than 30 minutes, you can operate this function, the unit will blow airflow for about 15 minutes to dry the inner parts to avoid mildew, then shuts off the unit.

Note: ANTI-MILDEW function only available in DRY/COOLING mode.

SELF-CLEAN function (optional)

Only optional for some heating pump inverter appliance.

To active this function, turn off the indoor unit at first, then press SWING and SWING at the same time toward the indoor unit, until the unit beeps and [AC] will appear on the remote controller display and the indoor LED display.

1. This function helps carry away the accumulated dirt, bacteria, etc from the indoor evaporator.
2. This function will run for approximately 30 minutes and it will return to the pre-setting mode. You can press ⏻ button to cancel this function during the process. You will hear 2 beeps when it's finished or cancelled.

Notes:

- It's normal if there is some noise during this function process, as plastic materials expand with heat and contract with cold.
- The brand suggests operating this function at the following ambient conditions to avoid certain safety protection features.

Indoor unit	Temp < 86°F (30°C)
Outdoor unit	41°F (5°C) < Temp < 86°F (30°C)

8°C heating function (optional)

1. Long press ECO button over 3 seconds to active this function and [8°C] will appear on the remote display.
2. Do it again to deactivate this function.
3. This function will auto start the heating mode when the room temperature is lower than 8°C and it will return to standby if the temperature reaches 9°C.
4. If the room temperature is higher than 18°C, the appliance will cancel this function automatically.

Gentle fan function (Optional)

1. Turn on the indoor unit and change to COOL mode, then long press FAN and MUTE button together for 3 seconds to active this function, ≋ will appear on the display. Do it again to deactivate it.
2. This function will auto close the vertical flaps and give you a comfortable gentle wind feeling.

Health function (optional)

1. Turn on the indoor unit and long press SLEEP and DISPLAY button together for 3 seconds to active this function, will appear on the display.
2. Do it again to deactivate it.
3. When the HEALTH function is initiated, the lioniser/ Plasma/ Bipolar lioniser/ UVC Lights (depending on models) will be activate.

GEN function (optional)

1. Turn on the indoor unit at first and long press MUTE button for 3 seconds to active and do it again to deactivate this function.
2. Under this function, short press MUTE button to select the General type L3 - L2 - L1 - OF.
3. Select OF and wait 2 seconds to exit it.

Cleaning & Care

Servicing

1. Appliance shall be installed, operated and stored in a room with a floor area larger than 4m.
2. The installation of pipework shall be kept to a minimum.
3. The pipework shall be protected from physical damage and shall not be installed in an unventilated space if the space is smaller than 4m.
4. The compliance with national gas regulations shall be observed.
5. The mechanical connections shall be accessible for maintenance purposes.
6. Make sure ventilation openings clear of obstruction.

Warnings: The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation. The appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) and ignition sources (for example an operating electric heater).

7. It is appropriate that anyone who is called upon to work on a refrigerant circuit should hold a valid and up-to-date certificate from an assessment authority accredited by the industry and recognising their competence to handle refrigerants, in accordance with the assessment specification recognised in the industrial sector concerned. Service operations should only be carried out in accordance with the recommendations of the equipment manufacturer. Maintenance and repair operations that require the assistance of other qualified persons must be conducted under the supervision of the person competent for the use of flammable refrigerants.
8. Every working procedure that affects safety, must only be carried out by a licenced professional.

Warning

- Do not use means to accelerate the defrosting process to clean, other than those recommended by Kogan.com.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an Oduor.

Information on servicing

Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapor being present while the work is being performed.

General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e., non-sparking, adequately sealed or intrinsically safe.

Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or Co2 fire extinguisher adjacent to the charging area.

No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. No Smoking signs shall be displayed.

Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere. Checks to the refrigeration equipment.

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times maintenance and service guidelines shall be followed. If in doubt contact help.Kogan.com for support.

The following checks shall be applied to installations using flammable refrigerants:

- The charge size is in accordance with the room size within which the refrigerant containing parts are installed;
- The ventilation machinery and outlets are operating adequately and are not obstructed;
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised. Initial safety checks shall include:

- That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- That there no live electrical components and wiring are exposed while charging, recovering or purging the system;
- That there is continuity of earth bonding.

Repairs to sealed components

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc. Ensure that apparatus is mounted securely. Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

Note:

The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use. Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating. Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also consider the effects of aging or continual vibration from sources such as compressors or fans.

Detection of flammable refrigerants

Under no circumstances shall potentially sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

Leak detection methods

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants. Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area). Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25% maximum) is confirmed. Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipework. If a leak is suspected, all naked flames shall be removed/ extinguished. If a leakage of refrigerant is found which requires brazing, all the refrigerants shall be recovered from the system or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

Removal and evacuation

When breaking into the refrigerant circuit to make repairs or for any other purpose conventional procedures shall be used. However, it is important that best practice is followed since in flammability is a consideration. The following procedure shall be adhered to:

Remove refrigerant;

- Purge the circuit with inert gas;
- Evacuate;
- Purge again with inert gas;
- Open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be flushed with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for this task.

Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipework are to take place.

Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

- Become familiar with the equipment and its operation.
- Isolate system electrically.
- Before attempting the procedure, ensure that:
    - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
    - all personal protective equipment is available and being used correctly;
    - the recovery process is supervised at all times by a competent person;
    - recovery equipment and cylinders conform to the appropriate standards.
- Pump down refrigerant system, if possible.
- If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- Make sure that the cylinder is situated on the scales before recovery takes place.
- Start the recovery machine and operate in accordance with manufacturer's instructions.
- Do not overfill cylinders. (No more than 80% volume liquid charge).
- Do not exceed the maximum working pressure of the cylinder, even temporarily.
- When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e., Special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs. The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt. The recovered refrigerant shall be returned to the refrigerant supplier in the correct recover cylinder and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Warning

- When cleaning, you must shut down the machine and cut off the power supply for more than 5 minutes.
- Under no circumstances should the air conditioner be flushed with water.
- Volatile liquid (e.g., thinner or gasoline) will damage the air conditioner, so only use soft dry cloth or wet cloth dipped with neutral detergent to clean the air conditioner.
- Pay attention to cleaning the filter screen regularly to avoid dust covering which will affect the filter screen effect. When the operating environment is dusty, the cleaning frequency should be increased appropriately.
- After removing the filter screen, do not touch the fins of the indoor unit to avoid scratching.

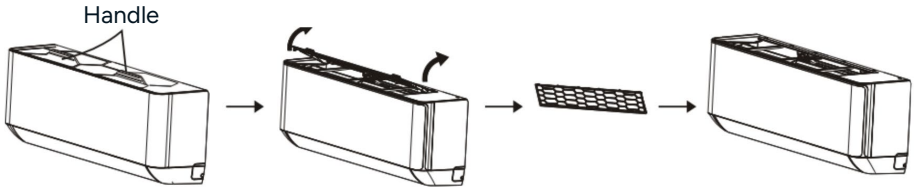
Cleaning the Unit

Wring it dry Gentle wipe the unit surface

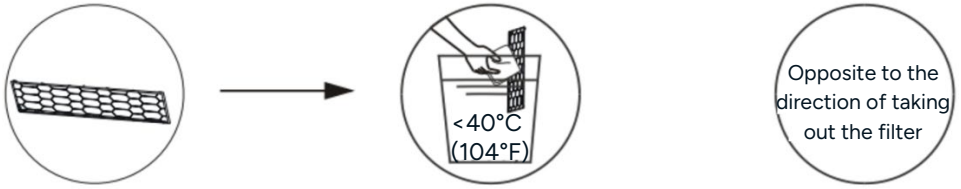
Tip: Wipe frequently to keep air conditioner clean and good appearance.

Disassembly and assembly of filter

- Grasp the raised handle on the filter by hand and then pull the filter out in the direction deviating from the unit, so that the upper edge of the filter is separated from the unit. The filter can be removed by lifting the filter upwards.
- When installing the filter, first insert the lower end of the filter screen into the corresponding position of the unit and then squeeze the upper end of the filter into the corresponding buckling position of the unit body.



Clean the filter



Take out the filter from the unit

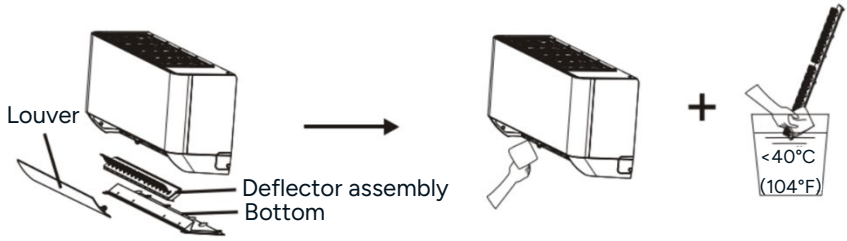
Clean the filter with soapy water air dry it

Replace the filter

Tip: When you find accumulated dust in the filter, please clean the filter in time to ensure the clean, healthy and efficient operation inside the air conditioner.

Cleaning of inner air duct

- First, loosen the knob on the middle of louver and bend the louver outwards to take it out.
- Grasp both sides of the bottom plate and push downwards to remove the bottom plate.
- Loosen the buckle on the deflector assembly with your thumb and take it out.
- Wipe the air duct and fan assembly with a clean and dry cloth.
- Clean the removed parts with soapy water and air dry it.
- After cleaning, restore the removed parts in turn.



Service and maintenance

If the air conditioner is not in use for an extended time, the following steps need to be followed:

- Remove the batteries from the remote controller
- Disconnect the power supply from the air conditioner

When starting to use after long-term shutdown:

- Clean the unit and filter screen.
- Check whether the air inlet and outlet on both the indoor and outdoor units are unobstructed.
- Check whether the drainpipe is unobstructed.
- Re-install the batteries in the remote controller and check whether the power is on.

Specifications

Basic parameters for Wi-Fi module

Network frequency	2.400-2.4835GHz
Standards of WLAN	IEEE 802.11 b/g/n (channels 1-14, channels 1-13 for EU/AU, channels 1-11 for US/CA)
Protocol stack support	1Py4/TCP/UDP/FITTPS/TLS/DNS
Security support	WEP/WPA/WPAWAE5128
Network type support	STA/AP/STA+AP
Max. RF Power	18.5dbm
Bluetooth frequency	2.402 -2.480GHz
Blue tooth RF Power	9dbm

Disposal

This marking indicates that this appliance should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

Troubleshooting

Malfunction	Possible causes
The appliance does not operate	Power failure/plug pulled out.
	Damaged indoor/outdoor unit fan motor.
	Faulty compressor thermomagnetic circuit breaker.
	Faulty protective device or fuses.
	Loose connections or plug pulled out.
	It sometimes stops operating to protect the appliance.
	Voltage higher or lower than the voltage rating.
	Active TIMER-ON function.
	Damaged electronic control board.
Strange odour	Dirty air filter.
Noise of running water	Back flow of liquid in the refrigerant circulation.
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the "COOLING" or "DEHUMIDIFYING/DRY" modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow, either hot or cold	Unsuitable temperature setting.
	Obstructed air conditioner intakes and outlets.
	Dirty air filter.
	Fan speed set at minimum.
	Other sources of heat in the room.
	No refrigerant.
The appliance does not respond to remote commands	Remote control is not close enough to indoor unit.
	The batteries of remote control need to be replaced.
	Obstacles between remote control and signal receiver in indoor unit.
The display is off	Active DISPLAY function.
	Power failure

Switch off the air conditioner immediately and cut off the power supply in the event of:	Strange noises during operation.
	Faulty electronic control board.
	Faulty fuses or switches.
	Spraying water or objects inside the appliance.
	Spraying water or objects inside the appliance.
	Very strong smells coming from the appliance.

Error Code on the Display

In case of error, the display on the indoor unit shown the following error codes:

Display	Description of the trouble
E1	Indoor room temperature sensor fault
E2	Indoor pipe temperature sensor fault
E3	Outdoor pipe temperature sensor fault
E4	Refrigerant system leakage or fault
E6	Malfunction of indoor fan motor
E7	Outdoor ambient temperature sensor fault
EO	Outdoor ambient temperature sensor fault
E8	Outdoor discharge temperature sensor fault
E9	Outdoor IPM module fault
EA	Outdoor current detect fault
EE	Outdoor PCB EEPROM fault
EF	Outdoor fan motor fault
EH	Outdoor suction temperature sensor fault

Notes

Need more information?

We hope that this user guide has given you the assistance needed for a simple set-up.

`For the most up-to-date guide for your product, as well as any additional assistance you may require, head online to **help.Kogan.com**.