



KOGAN SMARTERHOME™ INVERTER SPLIT SYSTEM AIR CONDITIONER

(2.6KW, 3.5KW & 7.0KW) (REVERSE CYCLE)

KASHSAC26TA, KASHSAC35TA & KASHSAC70TA

| | |
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SAFETY & WARNINGS

- Read this guide before installing and using the appliance.
- During the installation of the indoor and outdoor units, access to the working area should be forbidden to children. Unforeseeable accidents could happen.
- Ensure that the base of the outdoor unit is firmly secured.
- 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 electrical 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.
- Check that the electrical outlet is suitable for the plug, otherwise have the outlet changed.
- The appliance must be fitted with means for disconnection from the power supply 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.
- The air conditioner must be installed by a licensed trade professional.
- Do not install the appliance at less than 50cm 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 separate waste bins. Take the air conditioner at the end of its useful 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 must be installed in accordance with national wiring regulations.
- This appliance can be used by children aged from 8 years and above and persons 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.
- Do not try to install the air conditioner yourself. Always contact a qualified trade professional.
- Cleaning and maintenance must be carried out by a qualified trade professional. In any case, disconnect the appliance from the power supply before performing any cleaning or maintenance.
- Do not pull out the plug to switch off the appliance when it is in operation, as 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 mounted. The use of the air conditioner without the air filter could 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 licensed trade professional, who must check that grounding is done in accordance with current legislation and insert a thermos magnetic circuit breaker.
- The batteries in the remote control should be recycled or disposed of correctly. When disposing of used batteries, place them in sorted municipal waste at a designated collection point.
- Never remain directly exposed to the flow of cold air for a long time. Direct and prolonged exposure 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 burning smell, immediately cut off the power supply and contact a qualified trade professional. The prolonged use of the device in such conditions could cause fire or electrocution.
- Repairs must only be performed by a qualified trade professional. Incorrect repair could expose the user to the risk of electric shock, etc.
- The airflow direction must be properly adjusted. The air deflector must be directed downwards in heating mode and upwards in cooling mode.
- Ensure that the appliance is disconnected from the power supply when it will remain inoperative for a long period and before performing any cleaning or maintenance.
- Selecting the most suitable temperature can prevent damage to the appliance.

- Do not bend, tug, or compress the power cord, as this could cause damage. A damaged power cord can lead to electrical shocks or fire. The power cord must only be replaced by a qualified trade professional should replace the power cord.
- Do not use extension cords or power boards with this appliance.
- 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 air conditioner with possible consequent failures or damages.
- Do not make modifications to the appliance.
- Do not install the appliance in environments where the air could 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. Long and direct exposure to the flow of cold air could have negative effects on plants and animals.
- Do not expose the air conditioner to water. The electrical insulation could be damaged and cause 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.



Caution: Risk of fire



Operating instructions



Read user guide

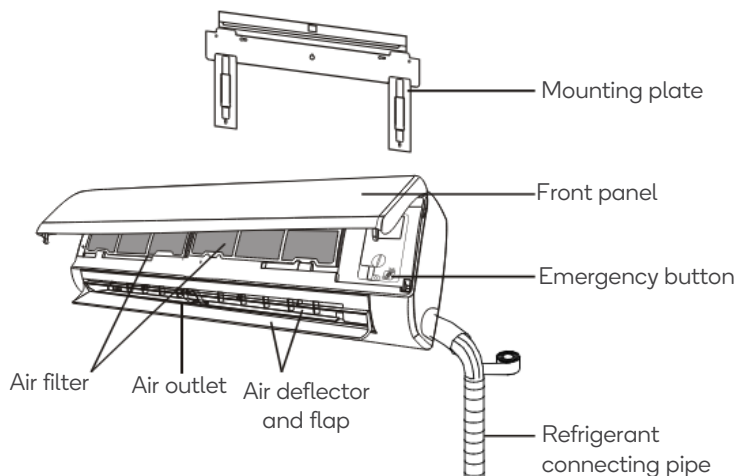
Disposal



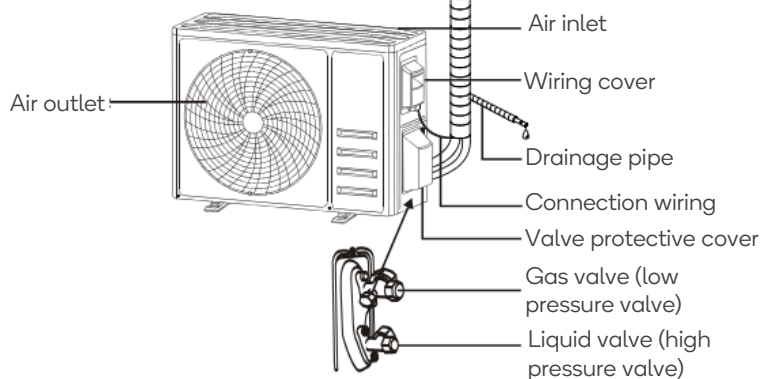
This marking indicates that this appliance should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

OVERVIEW

Indoor Unit



Outdoor Unit (With the Protective Cover Removed)



Note:

The figure shown may differ from the actual appliance. Refer to the actual appliance as the standard.

Indoor Display



| No. | Icon | Function |
|-----|------|---|
| 1 | | Time display. This is the indicator for the timer, temperature and error codes. |
| 2 | | Timer indicator. |
| 3 | | Sleep mode indicator. |
| 4 | | This indicator illuminates when the appliance is turned on and disappears when the appliance is turned off. |
| 5 | | Power indicator. The symbol illuminates when the power is on. |

Note:























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

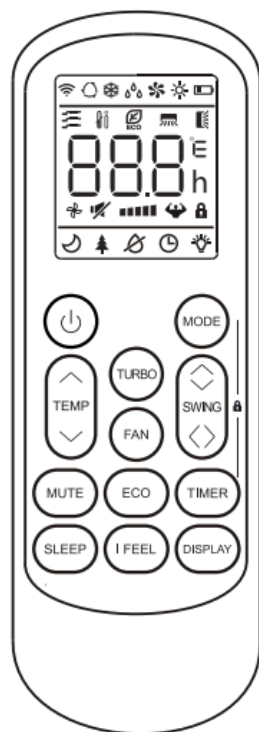
Remote Control

Notes:








- The display and some functions of the remote control may vary according to the model.
- The shape and position of the buttons and indicators may vary according to the model, but their function is the same.
- The unit confirms the correct reception of each button with a beep.

Remote control display:

| Symbol | Meaning |
|---|--|
|  | Battery indicator |
|  | Auto mode |
|  | Cool mode |
|  | Dry mode |
|  | Fan only mode |
|  | Heat mode |
|  | Eco mode |
|  | Timer |
|  | Temperature indicator |
|  | Fan speed: Auto/ low/ low-mid/ mid/ mid-high/ high |
|  | Mute function |
|  | Turbo function |
|  | Up-down auto swing |
|  | Left-right auto swing |
|  | Sleep function |
|  | Health function |
|  | I Feel function |
|  | Signal indicator |
|  | Gentle air |
|  | Child lock |
|  | Display on/off |
|  | Anti-mildew |



Remote control buttons:

| Button | Function |
|--|--|
|  | Turn the air conditioner on/off. |
|  | Press to increase the temperature or Timer setting hours. |
|  | Press to decrease the temperature or Timer setting hours. |
| MODE | Press to select the mode of operation (Auto, Cool, Dry, Fan, Heat). |
| ECO | Press to activate/deactivate the ECO function. |
| | Press and hold to activate/deactivate the 8°C heating function (depending on the model). |
| TURBO | Press to activate/deactivate the TURBO function. |
| FAN | Press to select the fan speed of auto/low/mid/high. |
| TIMER | Press to set the time for the timer and turn it on/off. |
| SLEEP | Press to switch the SLEEP function on/off. |
| DISPLAY | Press to switch the LED display on/off. |
| SWING  | Press to stop or start the horizontal air deflector from moving or set the desired up/down air flow direction. |
| SWING  | Press to stop or start the vertical air deflector movement or set the desired left/right air flow direction. |
| I FEEL | Press to switch the I FEEL function on/off. |
| MUTE | Press to switch the MUTE function on/off. |
| | Press and hold to activate/deactivate the GEN function (depending on the model). |
| MODE+TIMER | Press to activate/deactivate the CHILD-LOCK function. |
| SWING  + SWING  | Press to activate/deactivate the SELF-CLEAN function (depending on the model). |
| FAN+MUTE | Press to activate/deactivate the GENTLE WIND function (depending on the model). |
| SLEEP+DISPLAY | Press to activate/deactivate the HEALTH function (depending on the model). |

INSTALLATION

Important Considerations

- The air conditioner must be installed by a licensed trade professional.
- When filling the combustible refrigerant, incorrect operation may cause serious injury or damage to the appliance.
- A leak test must be done after installation is completed.
- A safety inspection must be conducted before performing maintenance or repairs on an air conditioner using combustible refrigerant to ensure that the fire risk is reduced to minimum.
- It is necessary to operate the machine according to established safety protocols to ensure that any risk arising from combustible gas or vapor during operation is minimised.
- Requirements for the total weight of filled refrigerant and the area of a room to be equipped with an air conditioner are shown in the following Tables GG.1 and GG.2.

Maximum Charge and the Required Minimum Floor Area

- $m_1 = (4 \text{ m}^3) \times \text{LFL}$, $m_2 = (26 \text{ m}^3) \times \text{LFL}$, $m_3 = (130 \text{ m}^3) \times \text{LFL}$.
- 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 must be in accordance with the following: $m_{\text{max}} = 2.5 \times (\text{LFL})^{(5/4)} \times h_0 \times (A)^{1/2}$.
- The required minimum floor area A_{min} to install an appliance with refrigerant charge M (kg) shall be in accordance with following: $A_{\text{min}} = (M / (2.5 \times (\text{LFL})^{(5/4)} \times h_0))^2$.

Table GG.1 - Maximum Charge (kg)

| Category | LFL (kg/m ³) 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 | 6.68 | 8.85 |

Table GG.2 – Minimum Room Area (m²)

| Category | LFL (kg/m³) | h ₀ (m) | Charge amount (M) (kg) | | | | | | |
|----------|----------------|-----------------------|------------------------|-------------|-------------|-------------|-------------|------------|-------------|
| | | | Minimum room area (m²) | | | | | | |
| R32 | 0.306 | | 1.224 kg | 1.386 kg | 2.448 kg | 3.672 kg | 4.896 kg | 6.12 kg | 7.956 kg |
| | | 0.6 | | 29 | 51 | 116 | 206 | 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

Site safety:



Open flames prohibited



Ventilation necessary

Operation safety:



Mind static
electricity



Must wear protective clothing and anti-
static gloves




















Don't use mobile
phone

Installation safety:

- Refrigerant leak detector.
- Appropriate installation location.
- 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, 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 wearing 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 experiences a refrigerant leak during installation, immediately turn off the valve of the outdoor unit and evacuate all personnel until the refrigerant has completely leaked for 15 minutes. If the product is damaged, cease use immediately and contact **help.Kogan.com** for support. Welding the refrigerant pipe or performing other operations on-site is strictly prohibited.
- Choose a location where the air intake and outlet of the indoor unit are unobstructed and evenly distributed.
- Avoid places where there are other electrical products, power switches, plugs, outlets, kitchen cabinets, beds, sofas, and other valuables directly below the lines on both sides of the indoor unit.

Suggested Tools

| Tool | Picture | Tool | Picture | Tool | Picture |
|-----------------------------|---|---|---|-------------------|--|
| Standard spanner |  | Pipe cutter |  | Vacuum pump |  |
| Adjustable/ crescent wrench |  | Screw drivers (Phillips head & flat head) |  | Safety glasses |  |
| Torque wrench |  | Manifold and gauges |  | Work gloves |  |
| Allen key |  | 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-24K | | 30K-36K | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Length of pipe with standard charge | 5m/16ft | 5m/16ft | 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 | 7.5m/24ft | 7.5m/24ft |
| Maximum distance between indoor and outdoor unit | 15m/49ft | 15m/49ft | 20m/65ft | 20m/65ft | 30m/98ft | 30m/98ft |
| Additional refrigerant charge | 20g/m | 15g/m | 30g/m | 25g/m | 30g/m | 25g/m |
| Max. diff. in level between indoor and outdoor unit | 10m/32ft | 10m/32ft | 15m/48ft | 15m/48ft | 20m/65ft | 20m/65ft |
| Type of refrigerant | R22/R410A | R32 | 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/16ft |
| Maximum distance between indoor and outdoor unit | 15m/49ft | 15m/49ft | 15m/49ft | 15m/49ft |
| Additional refrigerant charge | 20g/m | 15g/m | 30g/m | 25g/m |
| Max. diff. in level between indoor and outdoor unit | 5m/16ft | 5m/16ft | 5m/16ft | 5m/16ft |
| Type of refrigerant | R22/R410A | R32 | R22/R410A | R32 |

Torque Parameters

| Pipe size | Newton meter (N x m) | Pound-force foot (lbs-ft) | Kilogram-force meter (kgs-m) |
|--------------|----------------------|---------------------------|------------------------------|
| 1/4 (ø6.35) | 15-20 | 11.1 – 14.8 | 1.5-2.0 |
| 3/8 (ø9.52) | 31-35 | 22.9-25.8 | 3.2-3.6 |
| 1/2 (ø12) | 45-50 | 33.2-36.9 | 4.6-5.1 |
| 5/8 (ø15.88) | 60-65 | 44.3-48.0 | 6.1-6.6 |

Dedicated Distribution Device and Wire for Air Conditioner

| Min. circuit ampacity of air conditioner (A) | Minimum Wire Cross-sectional Area (mm2) | 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 must meet the requirements of local laws and regulations.

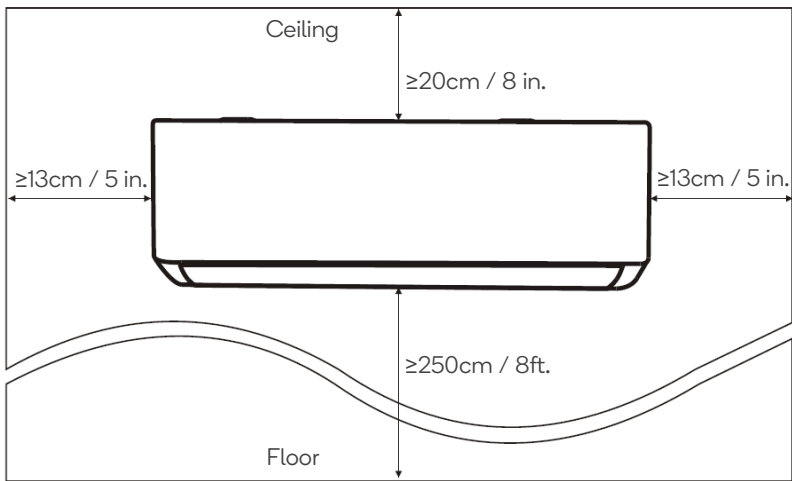
Indoor Unit Installation

Step 1: Select Installation Location

- Ensure the installation complies with the minimum installation dimensions (defined below) and meets the minimum and maximum connecting piping length and maximum change in elevation as defined in the System Requirements section.
- Air inlet and outlets must be clear of obstructions, ensuring proper airflow throughout the room.
- Condensation can be easily and safely drained.
- All connections to the outdoor unit can be easily made.

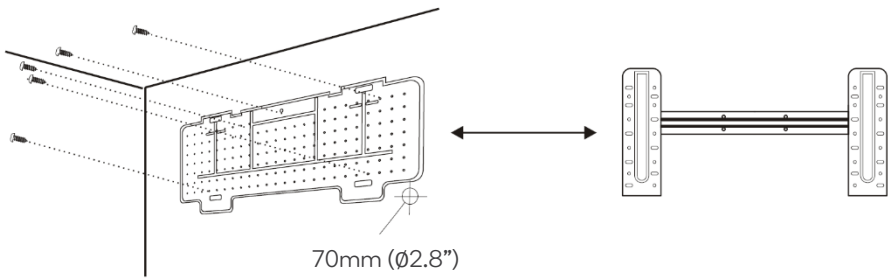
- The indoor unit is out of reach of children.
- A mounting wall strong enough to withstand four times the full weight and vibration of the unit.
- The filter can be easily accessed for cleaning.
- Leave enough free space to allow access for routine maintenance.
- Install at least 3m (10 ft.) away from 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.
- Do not install in a laundry room or by a swimming pool due to the corrosive environment.
- For ETL certification area, **Caution:** Mount with the lowest moving parts at least 2.4m (8 ft.) above floor or grade level.

Minimum Installation Dimensions



Step 2: Install the Mounting Plate

1. Take the mounting plate from the back of the indoor unit.
2. Ensure you meet the minimum installation dimension requirements as described in step 1. Based on 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 position using a spirit level, then mark the screw hole positions on the wall.
4. Remove the mounting plate and drill holes at the marked positions with a drill.
5. Insert wall anchors into the holes, then hang the mounting plate and secure it with screws.



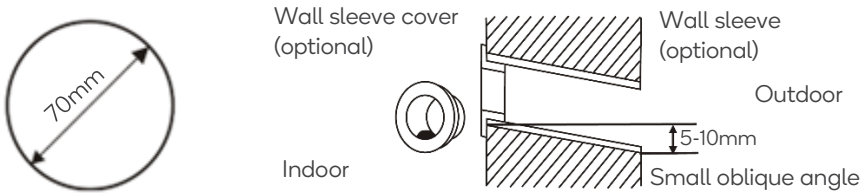
Notes:

- Ensure the mounting plate is firm enough and flat against the wall after installation.
- The figure shown may differ from the actual appliance. Refer to the actual appliance as the standard.

Step 3: Drill the Wall Hole

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

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



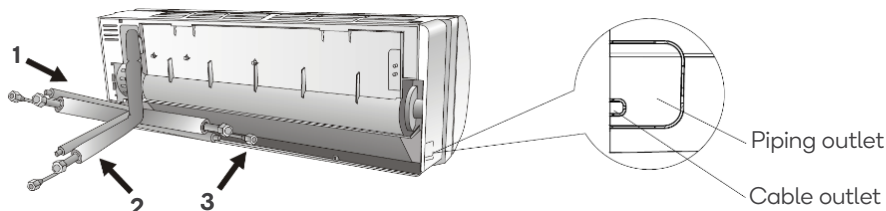
Caution:

When drilling the wall hole, avoid wires, plumbing and other sensitive components.

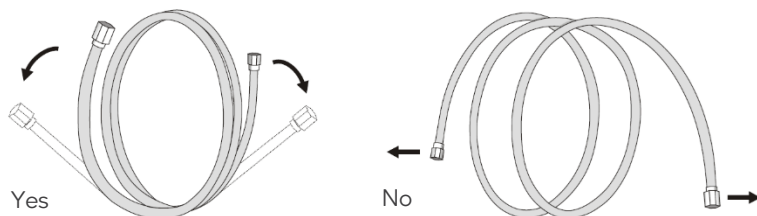
Step 4: Connecting the Refrigerant Pipe

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

Note: When cutting off the plastic sheet at the outlet, ensure the cut is trimmed smoothly.

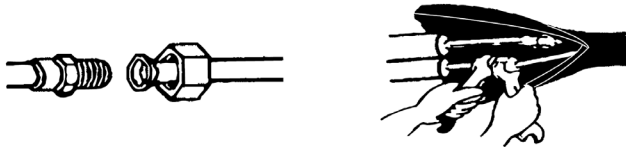


2. Bend the connecting pipes with the port facing up, as shown in the figure below.

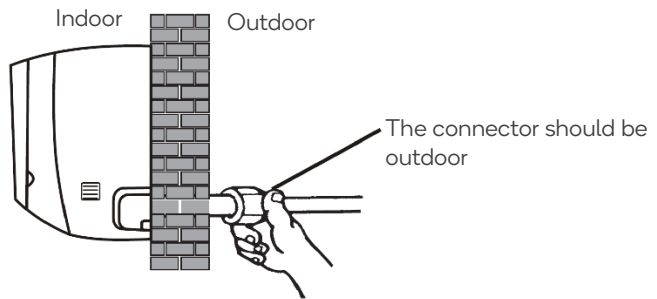


3. Remove the plastic cover from the pipe ports and the protective cover from the end of the piping connectors.
4. Check whether there is any debris on the port of the connecting pipe and ensure the port is clean.
5. After aligning the centre, rotate the nut of the connecting pipe to tighten it as much as possible by hand.
6. Use a torque wrench to tighten it according to the torque values in the torque requirements table (refer to the torque requirements table in the installation precautions section).

7. Wrap the joint with the insulation pipe.

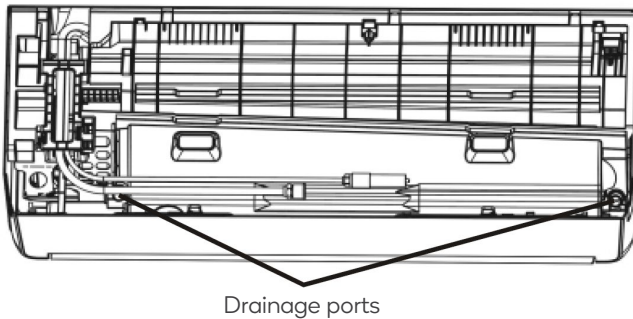


Note: For R32 refrigerant, the connector should be placed outdoors.



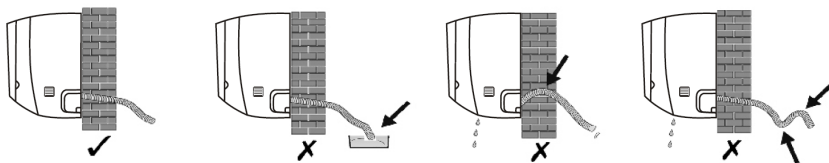
Step 5: Connect Drainage Hose

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 and plug the unused drain port with the rubber attached in one of the ports.



2. Connect the drainage hose to the drainage port, ensuring the joint is firm and the sealing effect is strong.

3. Wrap the joint firmly with Teflon tape to ensure no leaks.

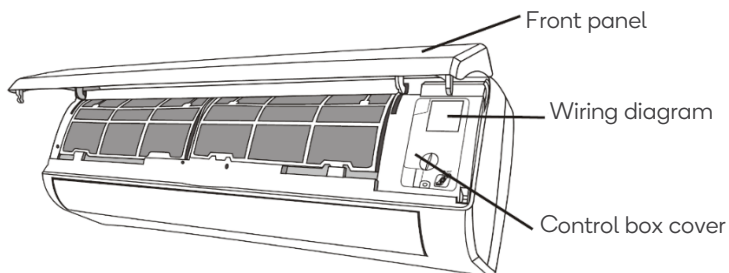


Note:

Ensure the pipes are free from twists or dents and are positioned with a downward slope to prevent blockages and ensure proper drainage.

Step 6: Connect Wiring

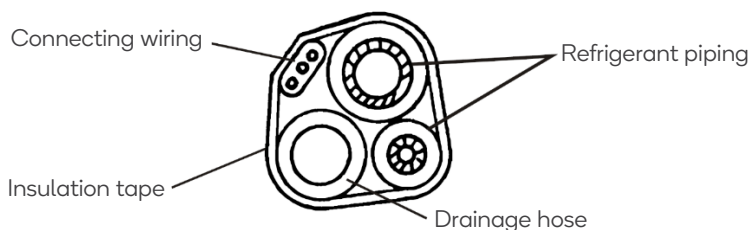
1. Choose the appropriate cable size based on the maximum operating current indicated on the nameplate (refer to the Installation Precautions section).
2. Open the front panel of the indoor unit.
3. Use a screwdriver to open the control box cover and reveal the terminal block.
4. Unscrew the cable clamp.
5. Insert one end of the cable into the control box position from the back of the right end of the indoor unit.
6. Connect the wires to the corresponding terminals according to the wiring diagram on the electric control box cover, ensuring they are securely connected.
7. Screw the cable clamp to fasten the cables.
8. 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, they must be bundled with insulating tape before passing them through the wall hole. This will save space, protect, and insulate them.

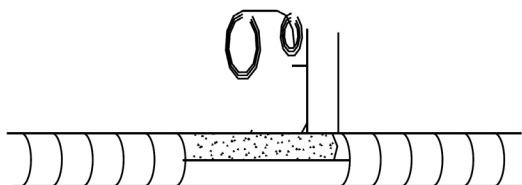
1. Arrange the pipes, cables, and drainage hose as shown in the following figure.



Notes:

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

2. Wrap the refrigerant pipes, connecting wires, and drainage hose tightly together using insulating tape.



Step 8: Mount the Indoor Unit

1. Slowly pass the bundled refrigerant pipes, connecting wires, and drainage hose through the wall hole.
2. Hook the top of the indoor unit onto the mounting plate.
3. Apply slight pressure to the left and right sides of the indoor unit to ensure it is hooked firmly.
4. Push down the bottom of the indoor unit to secure the snaps onto the hooks of the mounting plate, ensuring it is hooked firmly.

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

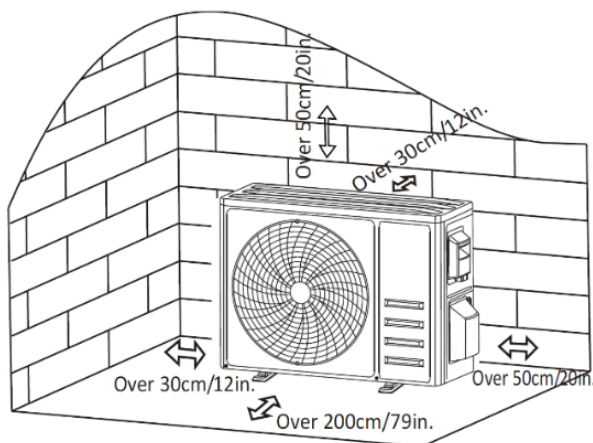
1. Hook the top of the indoor unit onto the mounting plate without piping and wiring.
2. Lift the indoor unit away from the wall, unfold the bracket on the mounting plate, and use this bracket to prop up the indoor unit, creating a larger space for operation.
3. Complete the refrigerant piping, wiring, and drainage hose connection, then wrap them as described in Steps 4 to 7.

Outdoor Unit Installation

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

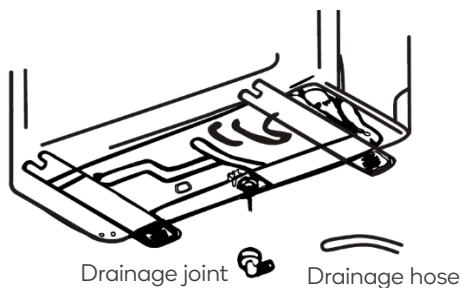
Step 1: Select Installation Location

- Do not install the outdoor unit near sources of heat, steam or flammable gas.
- Do not install the unit in windy or dusty places.
- Do not install the unit where people often pass. Select a place where the air discharge and operating sound will not disturb the neighbours.
- Avoid installing the unit where it will be exposed to direct sunlight (otherwise use a protection, if necessary, that will not interfere with the air flow).
- Reserve the spaces as shown in the figure below for the air to circulate freely.
- Install the outdoor unit in a safe and solid place.
- If the unit is subject to vibration, place rubber covers onto the feet of the unit.



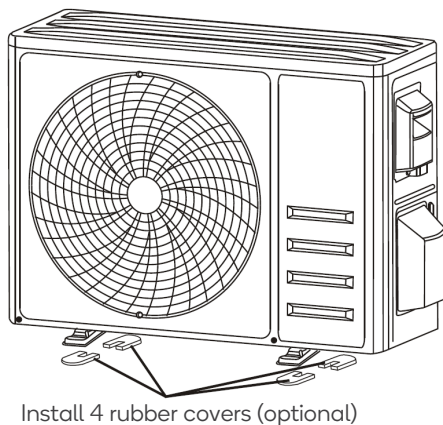
Step 2: Install Drainage Hose

1. This step only for heat pump models or RCACs.
2. Insert the drainage joint to the hole at the bottom of the outdoor unit.
3. Connect the drainage hose to the joint and make the connection well enough.



Step 3: Fix Outdoor Unit

1. Mark the installation position for the expansion bolts according to the outdoor unit installation dimensions.
2. Drill holes, clean out the concrete dust, and insert the bolts.
3. If applicable, install four rubber covers over the feet before placing the outdoor unit. This will reduce vibrations and noise.
4. Position the outdoor unit base over the bolts and pre-drilled holes.
5. Use a spanner to firmly secure the outdoor unit with the bolts.

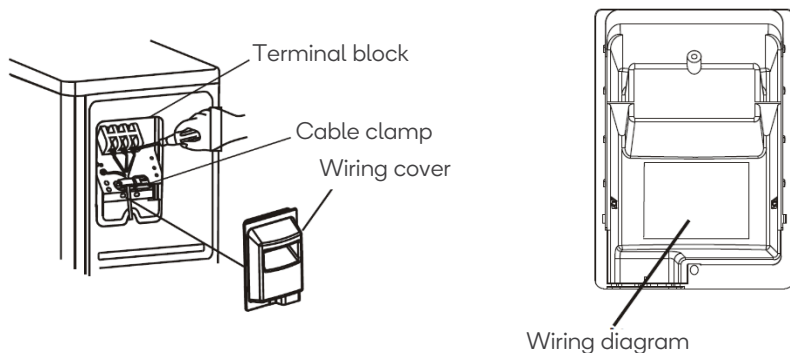


Note:

The outdoor unit can be mounted on a wall bracket. Follow the instructions for the wall bracket to securely attach it to the wall, then fasten the outdoor unit to the bracket, ensuring it is level. The wall bracket must be able to support at least four times the weight of the outdoor unit.

Step 4: Install Wiring

1. Use a Phillips head screwdriver to unscrew the wiring cover, then gently grasp and press it down to remove it.
2. Unscrew the cable clamp and remove it.
3. According to the wiring diagram inside the wiring cover, connect the wires to the corresponding terminals and ensure all connections are firm and secure.
4. Reinstall the cable clamp and wiring cover.

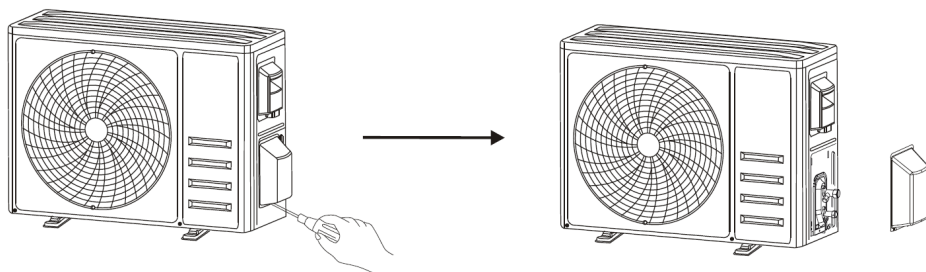


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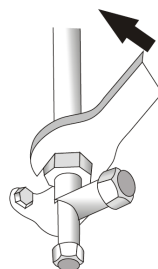
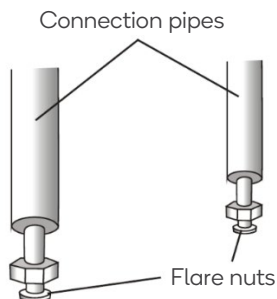
When connecting the wires of indoor and outdoor units, the power must be cut off.

Step 5: Connect the Refrigerant Pipe

1. Unscrew the valve cover, then gently grasp and press it down to remove it (if applicable).
2. Remove the protective caps from the ends of the valves.
3. Remove the plastic cover from the pipe ports, check for any debris on the port of the connecting pipe, and ensure the port is clean.
4. Align the centre, then rotate the flare nut of the connecting pipe and tighten it by hand as much as possible.
5. Use a spanner to hold the valve body and a torque wrench to tighten the flare nut according to the torque values in the torque requirements table (refer to the Torque Requirements table in the installation precautions section).

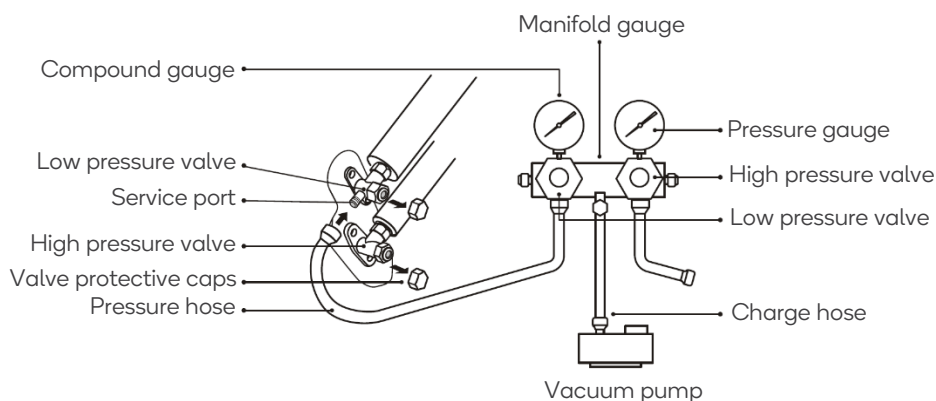


Remove the valve cover



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 of the manifold gauge to the service port on the outdoor unit's 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 evacuate the system.
6. The vacuum time should be at least 15 minutes, or until the compound gauge indicates -0.1 MPa (-76 cm Hg).
7. Close the low-pressure valve of the manifold gauge and turn off the vacuum pump.
8. Hold the pressure for 5 minutes, ensuring that the compound gauge pointer does not exceed 0.005 MPa.
9. Open the low-pressure valve anti-clockwise for 1/4 turn with a hexagonal spanner to allow a small amount of refrigerant to fill the system. Close the low-pressure valve after 5 seconds and quickly remove the pressure hose.
10. Check all indoor and outdoor joints for leaks using soapy water or a leak detector.
11. Fully open the low-pressure valve and high-pressure valve of the outdoor unit with a hexagonal spanner.
12. Reinstall the protective caps on the service port, low-pressure valve, and high-pressure valve of the outdoor unit.
13. Reinstall the valve cover.

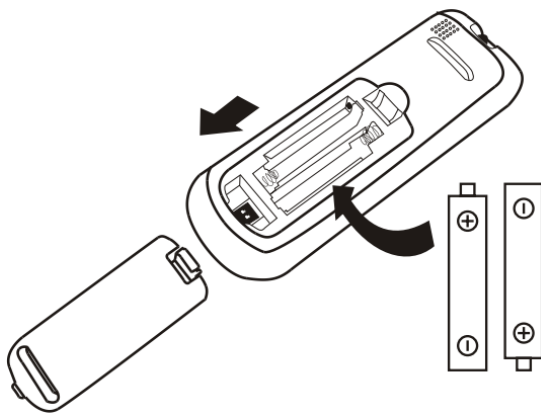


Replacing the Remote Control Batteries

1. Remove the battery cover plate from the back of the remote control by sliding it in the direction indicated by the arrow.
2. Install the batteries according to the '+' and '-' directions shown on the remote control.
3. Reinstall the battery cover by sliding it back into place.

Warning:

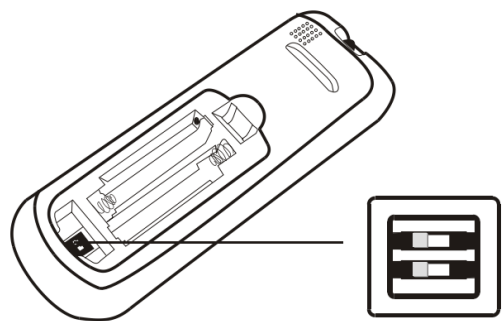
- Use 2 LR03 AAA (1.5V) batteries.
- Do not use rechargeable batteries.
- Replace old batteries with new ones of the same type when the display becomes illegible.
- Do not dispose of batteries as unsorted municipal waste.
- Collect such waste separately for special treatment.



DIP Switch

For some remote control models, open the battery cover to reveal a manual switch at the bottom. You can then select either the Cooling Only or Heat Pump mode. Position the switch according to the table below.

| DIP Switch Position | Function |
|---------------------|--|
| °C | The display is adjusted in Celsius. |
| °F | The display is adjusted in Fahrenheit. |
| Cool | The display is adjusted in only Cooling mode. |
| Heat | The display is adjusted in cooling and Heating mode. |



Using the Remote Control

- Direct the remote control toward the air conditioner.
- Check that there are no objects between the remote control and the signal receptor in the indoor unit.
- Never leave the remote control exposed to the rays of the sun.
- Keep the remote control at a distance of at least 1m from the television or other electrical appliances.

CONNECT TO SMARTERHOME™ APP

Install App

Download the “Kogan SmarterHome” app from the Play Store (Android) or App Store (iOS).



Play Store (Android)

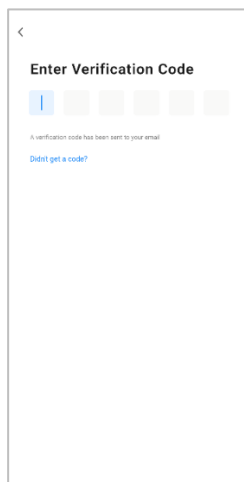
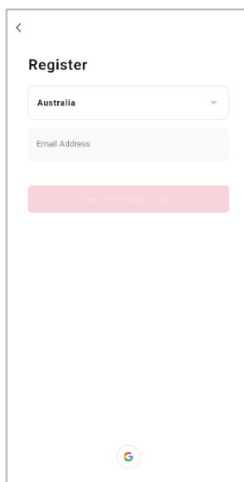
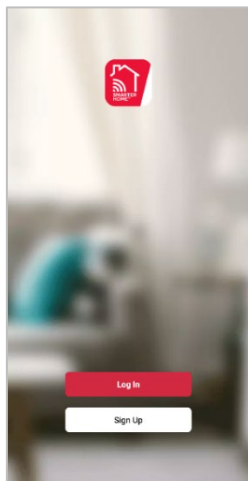


App Store (iOS)



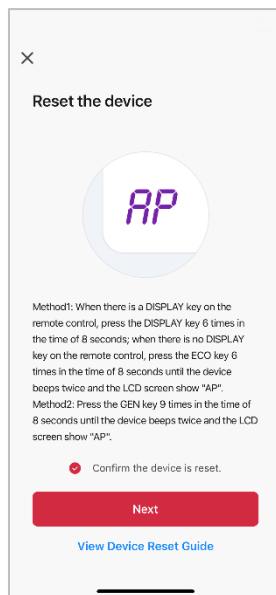
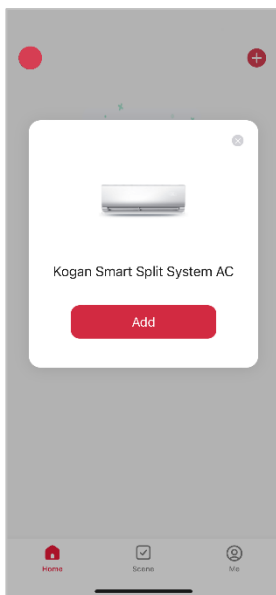
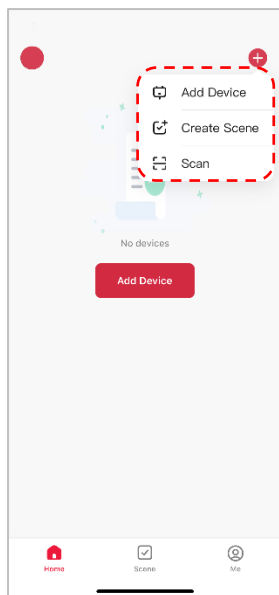
To register:

1. If you already have a SmarterHome account, select 'Log In'. To register a new account, select 'Sign Up'.
2. The system will automatically recognise your country. If needed, you can manually select your country from the drop-down box. Enter your email address and tap 'Get Verification Code' to continue.
3. A 6-digit code will be sent to the submitted email address. Enter this code before the one-minute timer expires.
4. Continue to the next page and complete your SmarterHome profile.



Add device through network

1. Once registered, power on the indoor unit, no need to launch the air conditioner. Tap the “+” in the upper right corner, press **"Scan"**, and then scan below QR code.
2. Click **"Add"**.
3. Enter your Wi-Fi details. It is important that your SmarterHome™ device and the app are connected to the same Wi-Fi network during setup.
4. Ensure that the device is in pairing mode, with the example of indicator, select "Confirm the device is reset" and tap **"Next"**.



Notes:

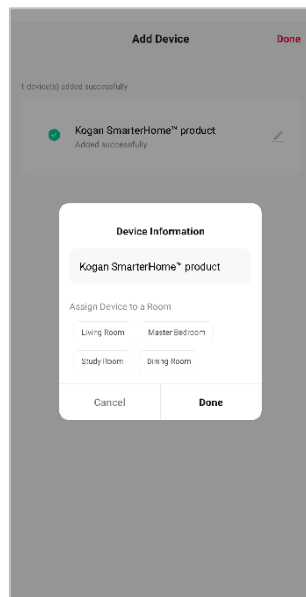
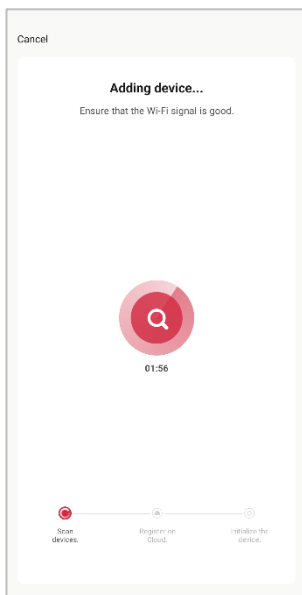
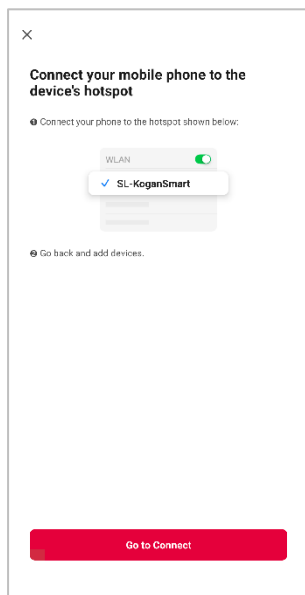
- The device and the app have to use the same Wi-Fi network.
- The device is only compatible with 2.4Ghz networks.

5. Follow the in-app prompts to continue AP Mode connection, which will pair your mobile phone to the device's Wi-Fi hotspot to ensure a connection. This may be named 'SL-KoganSmart', 'SmartLife-XXXX', or another similar name.

Note:

If the Wi-Fi hotspot does not appear on your phone in the list of available networks, your device may not be set in AP Pairing Mode correctly. Try repeating the steps outlined above to ensure your device is ready for connection.

6. The device will commence the pairing process and connect to the app. Ensure your Wi-Fi router, mobile phone, and the SmarterHome™ device are kept close until connection is complete.
7. After successfully being added, you will have the option to rename the device and assign it to a location. It will now be listed on the app's home page. Tap the device listing to enter its control page.



Note:

Once connected, you can select Create Scene from the “+” in the upper right corner (or from the Scene tab) to group connected SmarterHome™ products and automate their functions.

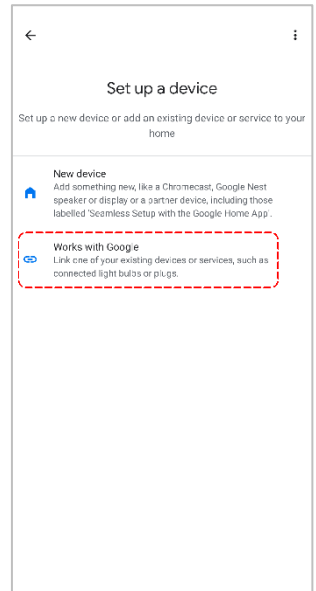
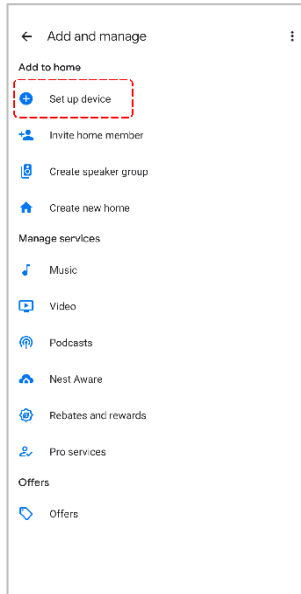
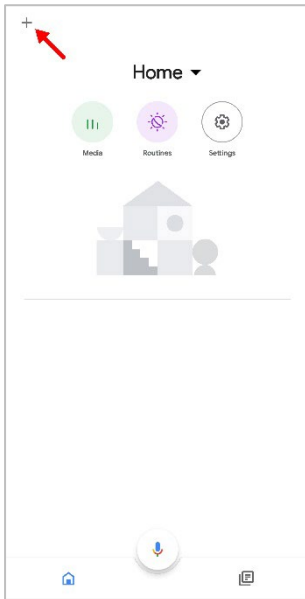
GOOGLE HOME CONTROL

Note:

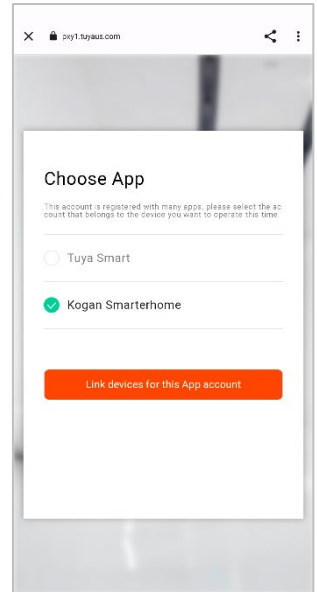
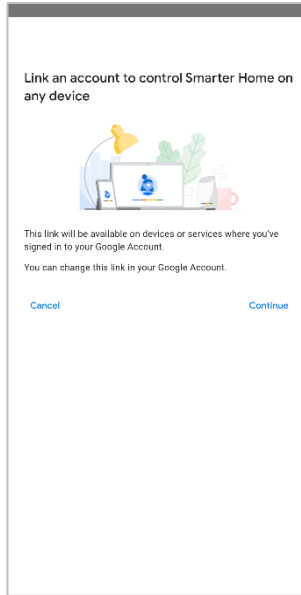
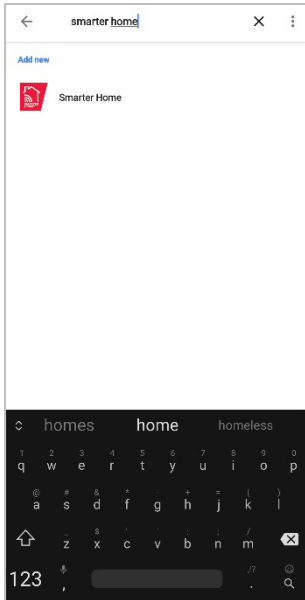
You will need to have set up a Google Home account prior to linking your Kogan SmarterHome™ device.

Adding “SmarterHome” to the Google Home app

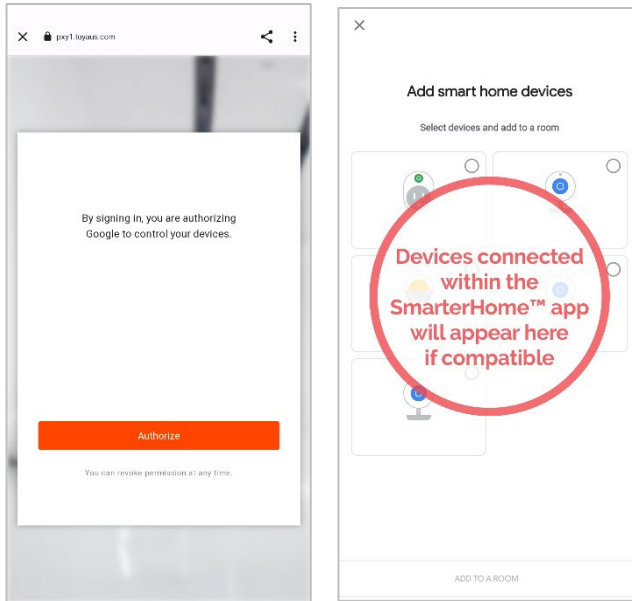
1. From the home page of the Google Home app, select the “+” icon (top left corner, see arrow in the below screenshot) to access the ‘Add and manage’ page.
2. Select ‘Set up device’, then select the ‘Works with Google’ option.



3. Select the search bar and type 'Smarter Home' to locate the Kogan SmarterHome™ service.
4. From here, you will be prompted to sign into your SmarterHome™ account using either your email or mobile phone number, depending on which method you used to register your account.
5. Select "Kogan SmarterHome™" from the app options.



6. Tap 'Authorise' to grant Google permission to access the SmarterHome™ app and your devices.
7. Once connected, the app will display any compatible devices linked to your SmarterHome™ account. From here you can assign them to rooms and set up any routines. Tap on any of the devices to view a list of available commands.



Note:

Please note that Google Home can only control the base/core functions of any compatible SmarterHome™ devices. To make full use of this product's smart functionality, please use the Kogan SmarterHome™ app.

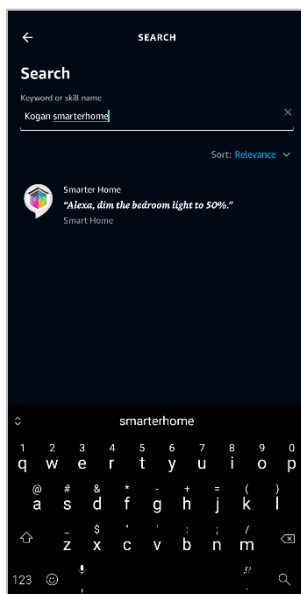
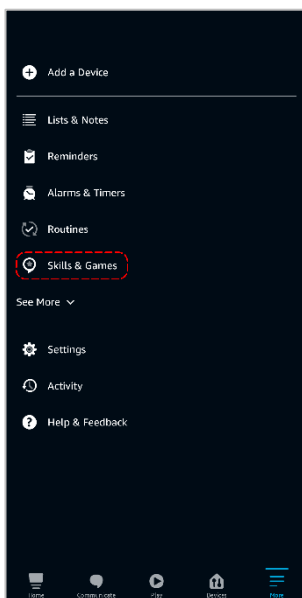
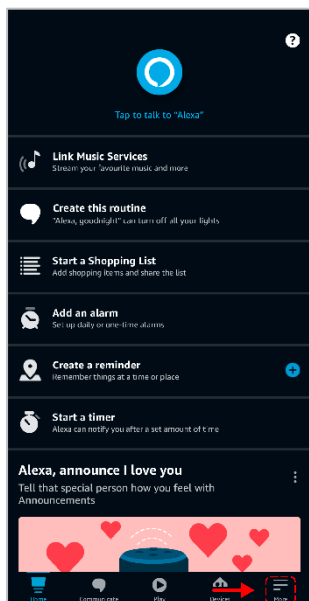
AMAZON ALEXA CONTROL

Note:

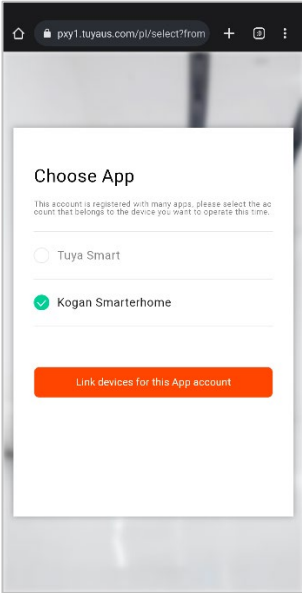
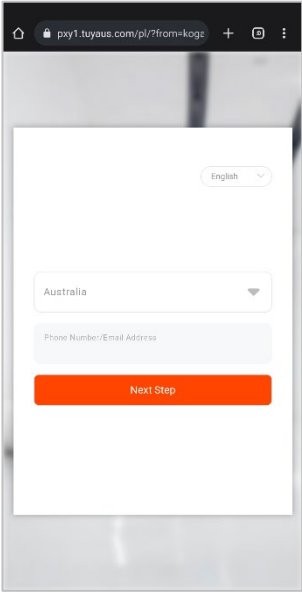
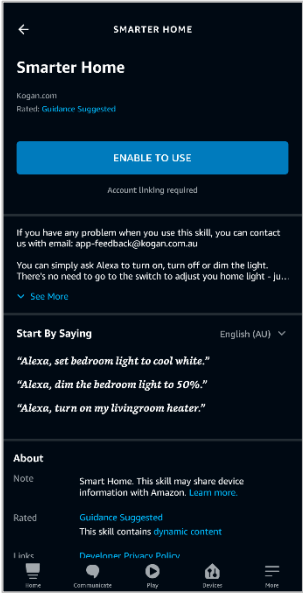
You will need to have set up an Alexa account prior to linking your Kogan SmarterHome™ device.

Adding “SmarterHome” to the Alexa app

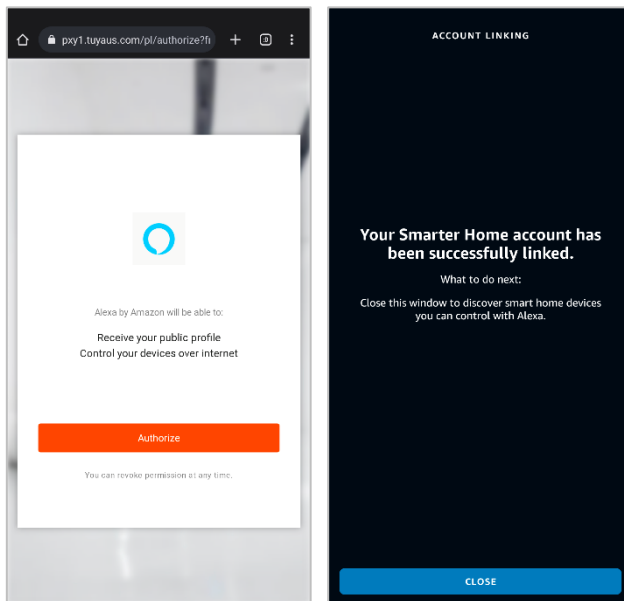
1. From the home page of the Alexa app, select the “≡” icon in the bottom-right and select “Skills & Games” from the sidebar.
2. Select the search bar and type ‘Smarter Home’ to locate the Kogan SmarterHome™ skill.



- 3. Tap 'Enable to Use' to add the Kogan SmarterHome™ skill to Alexa.
- 4. From here, you will be prompted to sign into your SmarterHome™ account using either your email or mobile phone number, depending on which method you used to register your account.
- 5. Select “Kogan SmarterHome™” from the app options.



6. Tap 'Authorise' to grant Alexa permission to access the SmarterHome™ app and your devices.
7. Once connected, the app will perform a search and display the devices linked to your SmarterHome™ account. When your devices have successfully connected to the Alexa app, you will be able to control your Kogan SmarterHome™ devices via Alexa's voice commands.



Note:

Please note that Alexa can only control the base/core functions of any compatible SmarterHome™ devices. To make full use of this product's smart functionality, please use the Kogan SmarterHome™ app.

OPERATION

Cooling Mode

- 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 Cool mode indicator appears on the display.
- Press the ▼ or ▲ buttons to set a temperature lower than that of the room.

Fan Mode (Not Fan Button)

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

Dry Mode

- This function reduces the humidity of the air to make the room more comfortable.
- To set to DRY mode, press 'MODE' until the Dry mode indicator appears on the display. The pre-set function will automatically be activated.

Auto Mode

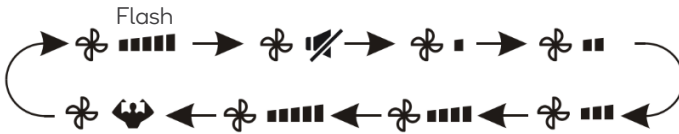
- Automatic mode.
- To set to AUTO mode, press 'MODE' until the Auto mode indicator appears on the display.
- In AUTO mode, the temperature will be set automatically according to the room temperature.

Heating Mode

- The heating function allows the air conditioner to heat the room.
- To activate HEAT mode, press the 'MODE' button until the Heat mode indicator appears on the display.
- Press the ▼ or ▲ button to set a temperature higher than that of the room.
- In HEAT mode, 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 operating. After defrosting, it resumes to HEAT mode automatically.

Fan Speed Function (Fan Button)

- Change the operating fan speed.
- Press the 'FAN' button to cycle through the fan speeds in the following order: AUTO/ MUTE/ LOW/ LOW-MID / MID/ MID-HIGH/ HIGH/ TURBO.



Child Lock Function

- Press and hold the 'MODE' and 'TIMER' buttons at the same time to enable/disable the child lock.
- When the child lock is enabled, no buttons will be active.

Timer Function ---- Timer On

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

To set the time for automatic switch-on, follow these steps:

1. Press the 'TIMER' button to set the switch-on time. The Timer and Temperature indicators will flash on the remote control display.
2. Press the \wedge or \vee 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 1 hour between 10 and 24 hours.
3. Press the 'TIMER' button again to confirm.
4. After setting the Timer-on, select the desired mode (Cool/Heat/Auto/Fan/Dry) by pressing, the 'MODE' button. Set the desired fan speed by pressing the 'FAN' button and press the \wedge or \vee button to set the desired operating temperature.
5. CANCEL the timer by pressing the 'TIMER' button.

Timer Function ---- Timer Off

- Automatically switch off the appliance.
- When the unit is switched on, you can set the TIMER OFF.

To set the time of automatic switch-off, follow these steps:

1. Confirm the appliance is ON.
2. Press the 'TIMER' button to set the switch-off time. Press the \wedge or \vee button to set the desired time.
3. Press the 'TIMER' button again to confirm.
4. CANCEL the timer by pressing the 'TIMER' button.

Notes:

All programming should be completed within 5 seconds, or the settings will be cancelled.

Swing Function

- Press the button SWING to activate the air deflectors:
 1. Press 'SWING' to activate the horizontal deflectors to swing up and down. The Up-down auto swing indicator will appear on the remote display. Press again to stop the swing movement at the current angle.
 2. Press 'SWING' to activate the vertical deflectors to swing from left to right. The Left-right auto swing indicator will appear on the remote display. Press again to stop the swing movement at the current angle.
- If the vertical deflectors are manually positioned under the flaps, they allow the air flow to be directed rightward or leftward.
- For some inverter heating models, pressing both the horizontal SWING and vertical SWING buttons simultaneously will activate the Self-Clean function.

Warning

- This adjustment must be done while the appliance is switched off.
- Never position flaps manually, as the delicate mechanism might get 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

- To activate the TURBO function, press the 'TURBO' button. The Turbo indicator will appear on the display.
- Press again to cancel this function.
- In COOL/HEAT mode, when you select the TURBO function, the appliance will turn to quick COOL or quick HEAT mode and operate at the highest fan speed.

Mute Function

1. Press the 'MUTE' button to activate this function and the Mute function indicator will appear on the remote display. Press it again to deactivate this function.
2. When the MUTE function is enabled, the remote control will display the auto fan speed and the indoor unit will operate at the lowest fan speed to minimise noise.
3. When you press the FAN/ TURBO button, the MUTE function will be cancelled. The MUTE function cannot be activated in DRY mode.

Sleep Function

- Pre-set the automatic operating program.
- Press the 'SLEEP' button to activate the SLEEP function. The Sleep function indicator appears on the display. Press again to cancel this function.
- After 10 hours running in SLEEP mode, the air conditioner will change to the previously set mode.

I Feel Function

- Press the 'I FEEL' button to active this function. The I Feel function indicator will appear on the remote display.
- Press 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 around you and ensure comfort.
- 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. The ECO mode indicator appears on the display and the appliance will run in ECO mode. Press again to cancel it.

Notes:

The ECO function is available in both COOL and HEAT modes.

Display Function (Indoor Display)

- Switch the LED display on/off.
- Press the 'DISPLAY' button to switch off the LED display on the panel. Press again to switch on the LED display.

Self-Clean Function

- To active this function, turn off the indoor unit, then press both ‘SWING’ buttons at the same time while pointing towards the indoor unit until you hear a beep. ‘AC’ will appear on the remote control display and the indoor LED display.
- This function helps remove accumulated dirt, bacteria, and other contaminants from the indoor evaporator.
- This function will run for approximately 30 minutes and then return to the pre-set mode. You can press the Power button to cancel this function during the process.
- You will hear 2 beeps when it is finished or cancelled.

Warning

- It is normal to hear some noise during this process, as plastic materials expand with heat and contract with cold.
- It is recommended to use this function under the specific ambient conditions outlined in the table below to avoid triggering certain safety protection features.
- It is recommended to use this function every three months.

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

Operating Environment

Using the air conditioner outside the specified temperature range may activate its protection device and cause it to fail to operate. Therefore, it is recommended to use the air conditioner within the following temperature conditions.

Fixed air conditioner:

| MODE | Heating | Cooling | Dry | |
|---------------------|-----------------------|------------------------------------|-----|--|
| Temperature | | | | |
| Room temperature | 0°C~27°C (32°F~80°F) | 17°C~32°C (63°F~90°F) | | |
| Outdoor temperature | -7°C~24°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:

| MODE | Heating | Cooling | Dry |
|---------------------|--|---|-----|
| Temperature | | | |
| 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 Heat Pump Models)

Preheating:

When the heating function is enabled, the indoor unit will take 2~5 minutes to preheat, after which the air conditioner will start heating and release warm air.

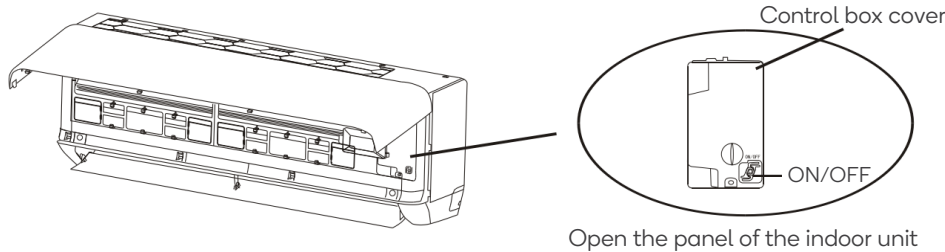
Defrosting:

During heating, when the outdoor unit is 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 finishes.

Emergency button:

Open the panel and find the emergency button on the electronic control box when the remote control fails. Always press the emergency button with insulation material.

| Status | Operation | Respond | Enter mode |
|--------------------------------------|--|-------------------------------|---------------|
| Standby. | Press the emergency button once. | It beeps briefly once. | Cooling mode. |
| Standby (only for heat pump models). | 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. |



Instructions For Servicing (R32)

- Check the information in this user guide to find out the dimensions of space needed for proper installation of the appliance, including the minimum distances allowed compared to adjacent structures.
- The appliance shall be installed, operated and stored in a room with a floor area larger than 4m².
- The installation of pipework shall be kept to a minimum.
- The pipework shall be protected from physical damage and shall not be installed in an unventilated space if the space is smaller than 4m².
- The compliance with national gas regulations shall be observed.
- The mechanical connections shall be accessible for maintenance purposes.
- Follow the instructions given in this user guide for handling, installing, cleaning, maintaining and disposing of the refrigerant.
- Ensure ventilation openings clear of obstruction.
- **Notice:** Servicing shall be performed only as recommended by Kogan.com.
- **Warning:** The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- **Warning:** 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).
- The appliance shall be stored to prevent mechanical damage from occurring.
- 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 Kogan.com. 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.
- Every working procedure that affects safety shall only be carried out by competent persons.

Warning

- Do not use any means to accelerate the defrosting process or clean the frost on your own. Follow the recommended guidelines from 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 odour.

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 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. 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, the 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 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:

1. 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.
2. 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 Kogan.com. 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 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 always supervised 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 Kogan.com'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. Contact **help.Kogan.com** 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.

Inspections Before Test Run

| Description | Inspection method |
|--------------------------------|---|
| Electrical safety inspection | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Confirm the direction and smoothness of drainage pipe. • Confirm that the joint of refrigerant pipe is installed completely. • Confirm the safety of 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 grill and panel. |
| Refrigerant leakage detection | <ul style="list-style-type: none"> • 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 and read the instruction of operation, detect at the position where leakage 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 Instructions

1. Turn on the power supply.
2. Press the Power button on the remote control to turn on the air conditioner.
3. Press the MODE button to switch between COOL and HEAT modes. Set the temperatures as follows:
 - COOL: Set to the lowest temperature.
 - HEAT: Set to the highest temperature.
4. Run the air conditioner for about 8 minutes in each mode and check that all functions operate properly and respond to the remote control. Recommended function checks include:
 - Ensuring the outlet air temperature responds correctly to the cool and heat modes.
 - Verifying that water drains properly from the drainage hose.
 - Confirming that the louvers and deflectors (if applicable) rotate properly.
5. Observe the air conditioner's operation for at least 30 minutes during the test run.
6. After a successful test run, return to the normal settings and press the Power button on the remote control to turn off the unit.
7. Instruct the user to read the user guide carefully before use, demonstrate how to operate the air conditioner, explain necessary service and maintenance procedures, and remind them about the storage of accessories.

Note:

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

CLEANING & CARE

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.

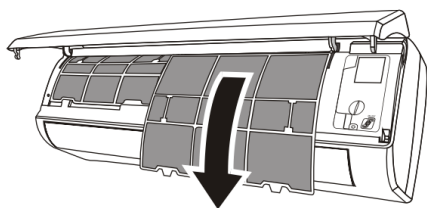
Clean the Unit



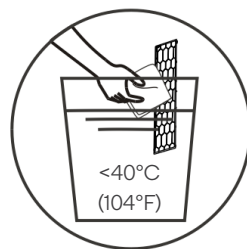
Note:

Wipe frequently to keep air conditioner clean and good appearance.

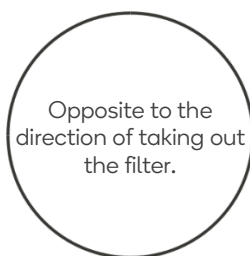
Clean the Filter



Take out the filter from the unit



Clean the filter with soapy water and air dry it



Opposite to the direction of taking out the filter.

Replace the filter

Note:

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

Service and Maintenance

When the air conditioner is not in use for a long time, remove the batteries of the remote control and disconnect the power supply of the air conditioner.

When starting to use after long-term shutdown:

1. Clean the unit and filter screen.
2. Check whether there are obstacles at the air inlet and outlet of indoor and outdoor units.
3. Check whether the drainpipe is unobstructed.
4. Install the batteries of the remote control and check whether the power is on.

TROUBLESHOOTING

| Problem | Possible Causes |
|---|---|
| The appliance does not operate. | Power failure/plug pulled out. |
| | Damaged indoor/outdoor unit fan motor. |
| | Faulty compressor thermomagnetic circuit breaker. |
| | Faulty compressor thermomagnetic circuit breaker. |
| | Loose connections or plug pulled out. |
| | It sometimes stops operating to protect the appliance. |
| | Voltage higher or lower than the voltage range. |
| | 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 'COOL' 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 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. |
| | Overheated cables or plugs. |
| | Very strong smells coming from the appliance. |

Error Code on the Display

In case of an error, the following error codes will illuminate on the indoor unit display.

| Error Code | Problem |
|------------|---|
| 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. |
| E0 | Indoor and outdoor communication 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

[illegible]

[illegible]

[illegible]

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**

kogan.com