

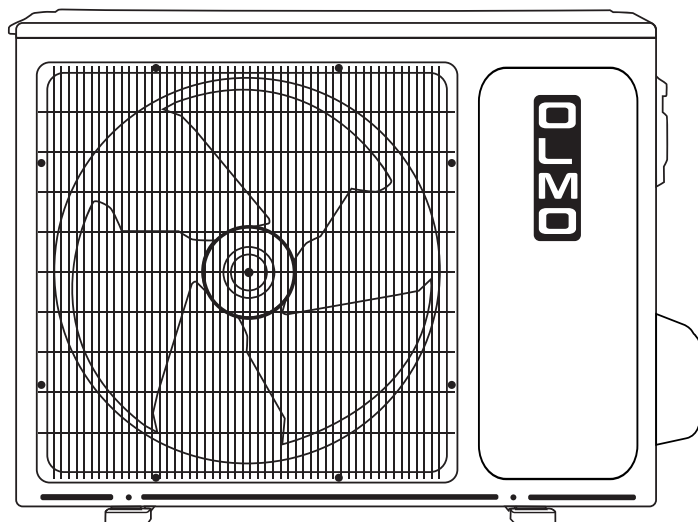
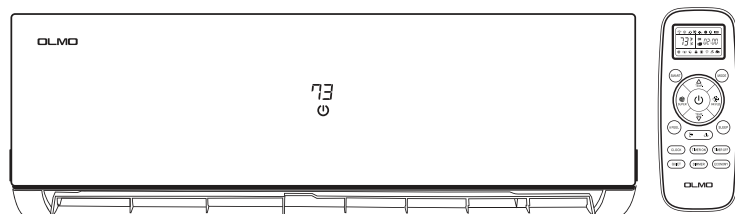
OLMO

SINGLE-ZONE

SIERRA ALTIMA SERIES

WALL MOUNTED MINI SPLIT AIR CONDITIONING SYSTEM

Installation Manual



IMPORTANT NOTE:

Thank you for purchasing our air conditioning system. Please read this manual carefully before operating your new air conditioning units. Make sure to save this manual for future reference.

Models:

OS-A09SRW-115VI
OS-SR09-115VO
OS-A12SRW-115VI
OS-SR12-115VO
OS-A09SRW-230VI
OS-SR09-230VO
OS-A12SRW-230VI
OS-SR12-230VO
OS-A18SRW-230VI
OS-SR18-230VO
OS-A24SRW-230VI
OS-SR24-230VO
OS-R36SRW-230VI
OS-RSR36-230VO



Contents

Safety Instructions	1
Preparation before Use	3
Preset	3
Safeguarding the Environment	3
Safety Precautions	4
Installation Instructions	14
Suggested Tools	14
Installation Diagram	15
Site Instructions	16
Indoor Unit Installation	17
Outdoor Unit Installation	24
Power and Wiring	26
Wiring Diagram	27
Vacuum Testing and Charging	27
Start-up	28
Care and Maintenance	29
Protection	30
Energy Saving Tips	31
Troubleshooting	32
Display Introduction	33

Remote controller operating instructions. See "remote controller instructions".

Safety Instructions

- 1. To guarantee the unit work normally, please read the manual carefully before installation, and try to install strictly according to this manual.
- 2. Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- 3. Properly ground the air conditioner into the earth.
- 4. Check the connecting cables and pipes carefully, make sure they are correct and firm before connecting the power of the air conditioner.
- 5. There must be an air-break switch.
- 6. After installing, the consumer must operate the air conditioner correctly according to this manual, keep a suitable storage for maintenance and moving of the air conditioner in the future.
- 7. The Fuse of the unit:

Model	Fuse of Indoor unit	Fuse of outdoor unit
9K(115V)	T 3.15A or T 5A 250V	T 25A 250V
12K(115V)	T 3.15A or T 5A 250V	T 25A 250V
9K-12K(208/230V)	T 3.15A or T 5A 250V	T 15A 250V
9K*-12K*(208/230V)	T 3.15A or T 5A 250V	T 20A 250V
15K-18K(208/230V)	T 3.15A or T 5A 250V	T 20A 250V
24K-36K(208/230V)	T 3.15A or T 5A 250V	T 30A 250V

Note: For 9K-12K models, when the MCA (Minimum Circuit Ampacity) current value on its nameplate is greater than 13A, the parameters corresponding to the 9K - 12K* models.*

- 8. A residual current device(RCD)with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule
- 9. Warning: Risk of electric shock can cause injury or death: Disconnect all remote electric power supplies before servicing .
- 10. The best length of the connecting pipe between the indoor unit and outdoor unit is less than 7.5 meters(24.6ft). It will affect the efficiency of the air conditioner if the distance longer than that length.
- 11. 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.Children should be supervised to ensure that they do not play with the appliance.
- 12. 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 shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- 13. The batteries in remote controller must be recycled or disposed of properly. Disposal of Scrap Batteries --- Please discard the batteries as sorted municipal waste at the accessible collection point.

Safety Instructions

- 14. If the appliance is fixed wiring, 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 overvoltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules.
- 15. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 16. The appliance shall be installed in accordance with local electrical safety regulations and National Electrical Codes(NEC).
- 17. The air conditioner must be installed by professional or qualified persons.
- 18. The appliance shall not be installed in the laundry.
- 19. Regarding to installation, please refer to section "Installation instructions".
- 20. Regarding to maintenance, please refer to section "Care and Maintenance".
- 21. For models using R32 and R454B refrigerant, piping connection should be conducted on outdoor side.
- 22. When a flammable refrigerant is used, the requirements for installation or maintenance space of appliance is determined according to following:

Minimum room area (m ² /ft ²)					
Amin(m ² /ft ²)	Hinst(m/ft)				
Mc(kg/oz)	1.8/5.9	2.0/6.6	2.2/7.2	2.4/7.9	2.5/8.2
1.8/63.5	6.8/73.19	6.1/65.66	5.5/59.2	5.1/54.9	4.9/52.74
2.0/70.5	7.5/80.73	6.8/73.19	6.1/65.66	5.6/60.28	5.4/58.13
2.2/77.6	8.3/89.34	7.4/79.65	6.8/73.19	6.2/66.74	5.9/63.51
2.4/84.7	9.0/96.88	8.1/87.19	7.4/79.65	6.8/73.19	6.5/69.97
2.6/91.7	9.8/105.49	8.8/94.72	8.0/86.11	7.3/78.58	7.0/75.35
2.8/98.8	10.5/113.02	9.5/102.26	8.6/92.57	7.9/85.03	7.6/81.81
3.0/105.8	11.3/121.63	10.1/108.72	9.2/99.03	8.4/90.42	8.1/87.19

NOTE:

Amin is the required minimum room area in m²/ft²
mc is the actual refrigerant charge in the system in kg/oz
hinst is the height of the bottom of the appliance relative to the floor of the room after installation in m/ft.

WARNING:

The minimum room area or minimum room area of conditioned space is based on releasable charge and total system refrigerant charge.

Preparation before Use

Note



- For the multi system, the refrigerant refer to the multi outdoor unit.
- When charging refrigerant into the system, make sure to charge in liquid state, if the refrigerant of the appliance are R32 and R454B. Otherwise, chemical composition of refrigerant (R32 and R454B) inside the system may change and thus affect performance of the air conditioner.
- According to the character of refrigerant (R32 and R454B, the value of GWP is 675 and 466), the pressure of the tube is very high, so be sure to be careful when you install and repair the appliance.



- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



- The air conditioner must be installed by trained, qualified installers and service mechanics.



- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

Preset

Before using the air conditioner, be sure to check and preset the following.

• Remote Control Presetting

Each time after the remote control is replaced with new batteries or is energized, remote control auto presetting heat pump. If the air conditioner you purchased is a Cooling Only one, heat pump remote controller can also be used.

• Back-light Function of Remote Control(optional)

Hold down any button on remote control to activate the back light. It automatically shuts off 3 seconds later.

Note: Back-light is an optional function.

• Auto Restart Presetting

The air conditioner has an Auto-Restart function.

Safeguarding the Environment

This appliance is made of recyclable or re-usable material. Scrapping must be carried out in compliance with local waste disposal regulations. Before scrapping it, make sure to cut off the mains cord so that the appliance cannot be re-used.

For more detailed information on handling and recycling this product, contact your local authorities who deal with the separate collection of rubbish or the shop where you bought the appliance.

SCRAPPING OF APPLIANCE

This appliance is marked according to the European Directive 2012/19/EC, Waste Electrical and Electronic Equipment (WEEE).

This marking indicates that this product should not be disposed with other household wastes throughout the North America. 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. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased.

They can take this product for environmental safe recycling.



Safety Precautions

Symbols in this Use and Care Manual are interpreted as shown below.



Be sure not to do.



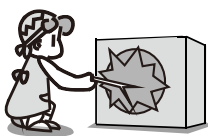
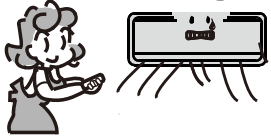
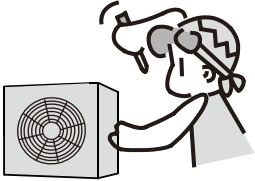
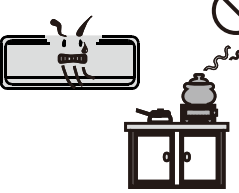
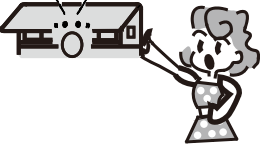
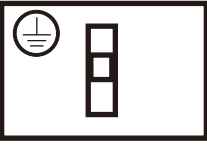
Grounding is essential.



Pay attention to such a situation.



Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc.

 Use correct power supply in accordance with the rating plate requirement. Otherwise, serious faults or hazard may occur or a fire maybe break out.	  Keep the power supply circuit breaker or plug from dirt. Connect the power supply cord to it firmly and correctly, lest an electric shock or a fire break out due to insufficient contact.	  Do not use the power supply circuit breaker or pull off the plug to turn it off during operation. This may cause a fire due to spark, etc.
  Do not knit, pull or press the power supply cord, lest the power supply cord be broken. An electric shock or fire is probably caused by a broken power supply cord.	  Never insert a stick or similar obstacle to the unit. Since the fan rotates at high speed, this may cause an injury.	 It is harmful to your health if the cool air reaches you for a long time. It is advisable to let the air flow be deflected to all the room.
  Turn off the appliance by remote control firstly before cutting off power supply if malfunction occurs.	  Do not repair the appliance by yourself. If this is done incorrectly, it may cause an electric shock, etc.	 Prevent the air flow from reaching the gas burners and stove.
 Do not touch the operation buttons when your hands are wet.	  Do not put any objects on the outdoor unit.	  It is the user's responsibility to make the appliance be grounded according to local codes or ordinances by a licenced technician.

Safety Precautions

Precautions for using R32 and R454B refrigerant

For the multi system, the refrigerant refer to the multi outdoor unit. The basic installation work procedures are the same as the conventional refrigerant (R22 or R410A). However, pay attention to the following points:

CAUTION

1. **Transport of equipment containing flammable refrigerants**
Compliance with the transport regulations
2. **Marking of equipment using signs**
Compliance with local regulations
3. **Disposal of equipment using flammable refrigerants**
Compliance with national regulations
4. **Storage of equipment/appliances**
The storage of equipment should be in accordance with the manufacturer's instructions.
5. **Storage of packed (unsold) equipment**
 - Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.
 - The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.
6. **Information on servicing**
 - 6-1 **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.
 - 6-2 **Work procedure**
Work shall be undertaken under a controlled procedure so as to minimise the risk of flammable gas or vapour being present while the work is being performed.
 - 6-3 **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.
 - 6-4 **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.

Safety Precautions



CAUTION

6-5 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.

6-6 No ignition sources

- No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant 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 flammable 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.

6-7 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.

6-8 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 manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance.
- 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

Safety Precautions

CAUTION

which are inherently resistant to being corroded or are suitably protected against being so corroded.

6-9 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.

7. Sealed electrical components shall be replaced and shall not be repaired if the component is damaged.

8. Intrinsically safe component shall be replaced and shall not be repaired if the component is damaged.

9. 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 take into account the effects of aging or continual vibration from sources such as compressors or fans.

10. Detection of flammable refrigerants

- Under no circumstances shall potential 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.

11. 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.

Safety Precautions

CAUTION

- 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 pipe-work.

NOTE: Examples of leak detection fluids are

- *bubble method,*
- *fluorescent method agents.*

- If a leak is suspected, all naked flames shall be removed/ extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.

Removal of refrigerant shall be according to Point 12: Removal and evacuation.

- Oxygen free nitrogen (OFN) shall then be purged through the system both
 - before and during the brazing process.
- Pipe-work including piping material, pipe routing, and installation shall include protection from physical damage in operation and service, and be in compliance with national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. All field joints shall be accessible for inspection prior to being covered or enclosed;
- After completion of field piping for split systems, the field pipework shall be pressure tested with an inert gas and then vacuum tested prior to refrigerant charging, according to the following requirements;
- The minimum test pressure for the low side of the system shall be the low side design pressure and the minimum test pressure for the high side of the system shall be the high side design pressure, unless the high side of the system, cannot be isolated from the low side of the system in which case the entire system shall be pressure tested to the low side design pressure;
- Field-made refrigerant joints indoors shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0,25 times the maximum allowable pressure. No leak shall be detected;
The appliance shall be stored so as to prevent mechanical damage from occurring.

12. Removal and evacuation

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

UL COPYRIGHTED MATERIAL – NOT AUTHORIZED FOR FURTHER REPRODUCTION OR DISTRIBUTION WITHOUT PERMISSION FROM UL INC.
190 CSA C22.2 No. 60335-2-40:22 ♦ UL 60335-2-40 DECEMBER 15, 2022

- safely remove refrigerant following local and national regulations;
- evacuate;
- purge the circuit with inert gas (optional for A2L);

Safety Precautions

CAUTION

- evacuate (optional for A2L);
- continuously flush or purge with inert gas when using flame to open circuit; and
- open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.

The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

13. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed:
 - Ensure that contamination of different refrigerants does not occur when using charging equipment.
 - Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
 - Cylinders shall be kept in an appropriate position according to the instructions.
 - Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
 - Label the system when charging is complete (if not already).
 - Extreme care shall be taken not to overfill the refrigeration system.
- Prior to recharging the system it shall be pressure tested with OFN.
- The system shall be leak tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.

14. 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.
 - a) Become familiar with the equipment and its operation.
 - b) Isolate system electrically.

Safety Precautions

CAUTION

- c) 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.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) 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.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

15. 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.

16. 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 is 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.

Safety Precautions

CAUTION

- 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.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery 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.

CAUTION

- When moving or relocating the air conditioner, consult experienced service technicians for disconnection and reinstallation of the unit.
- Do not place any other electrical products or household belongings under indoor unit or outdoor unit. Condensation dripping from the unit might get them wet, and may cause damage or malfunction of your property.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- 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 odor.
- To keep ventilation openings clear of obstruction.
- 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).
- Any person who is involved with working on or breaking into a refrigerant circuit opening of sealed components; opening of ventilated enclosures.

Safety Precautions

CAUTION

- Servicing shall only be performed as recommended by the equipment manufacturer.
- Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Appliance shall be installed, operated and stored in a room with a floor area larger than 10 m.²
- The installation of pipe-work shall be kept to a room with a floor area larger than 10 m.²
- The pipe-work shall be complied with national gas regulations.
- The maximum refrigerant charge amount is 2.5 kg. The specific refrigerant charge is based on the nameplate of the outdoor unit.
- Mechanical connectors used indoors shall comply with ISO 14903. When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be re-fabricated.
- The installation of pipe-work shall be kept to a minimum.
- Mechanical connections shall be accessible for maintenance purposes.

Precautions for using UV-C germicidal lamp systems (Optional)

CAUTION

- This appliance contains a UV-C lamp;
- Read the maintenance instructions before opening the appliance;
- Unintended use of the appliance or damage to the housing can result in the escape of dangerous UV-C radiation. UV-C radiation may, even in small doses, cause harm to the eyes and skin;
- Appliances that are obviously damaged must not be operated;
- Before opening doors and access panels bearing the ultraviolet radiation hazard symbol for conducting the user maintenance, it is recommended to disconnect the power;
- Do not operate UV-C lamps outside of the appliance ;
- This UV-C lamp not allow user to clean and replace.

Safety Precautions

Explanation of symbols displayed on the indoor unit or outdoor unit.

	WARNING	This symbol shows that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire
	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	CAUTION	This symbol shows that information is available such as the operating manual or installation manual.
	WARNING	Turn off the UV lamp before opening. Use UV radiation eye and skin protection during servicing.
	WARNING	This symbol shows that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire
	WARNING	This symbol shows that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire

Installation Instructions

Suggested Tools

In order to install your air-conditioner more conveniently and safely, you might use those special tools listed below.



Standard Wrench



Screw Driver



Hex Keys or Allen Wrenches



Adjustable/Crescent Wrench



Torque wrench



Drill & Drill Bits



Manifold and Gauges



Vacuum Pump



Clamp on Amp Meter

Level

Work Gloves

Safety Glasses

Pipe Cutter

Refrigerant Scale

Flaring Tool

Micron Gauge

Hole Saw

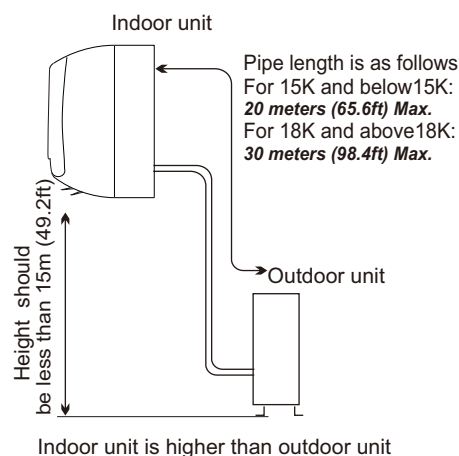


Installation Instructions

Site Instructions

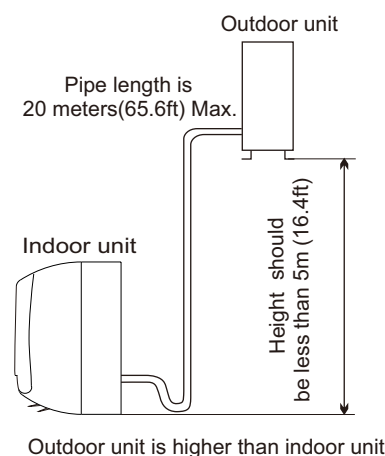
Site for Installing Indoor Unit

- Where there is no obstacle near the air outlet and air can be easily blown to every corner.
- Where piping and wall hole can be easily arranged.
- Keep the required space from the unit to the ceiling and wall according to the installation diagram on previous page.
- Where the air filter can be easily removed.
- Keep the unit and remote controller 1m(3.28ft) or more apart from television, radio etc.
- keep as far as possible from fluorescent lamps.
- Do not put anything near the air inlet to obstruct it from air absorption.
- Install on a wall that is strong enough to bear the weight of the unit.
- Install in a place that will not increase operation noise and vibration.
- Keep away from direct sunlight and heating sources. Do not place flammable materials or combustion apparatuses on top of the unit.



Site for Installing Outdoor Unit

- Where it is convenient to install and well ventilated.
- Avoid installing it where flammable gas could leak.
- Keep the required distance apart from the wall.
- Keep the outdoor unit away from greasy dirt, vulcanization gas exit.
- Avoid installing it by the roadside where there is a risk of muddy water.
- A fixed base where it is not subject to increased operation noise.
- Where there is not any blockage of the air outlet.
- Avoid installing under direct sunlight, in an aisle or sideway, or near heat sources and ventilation fans. Keep away from flammable materials, thick oil fog, and wet or uneven places.
- In case the pipe length is more than 7.5m(24.6ft), the refrigerant should be charged additionally, according to below table.

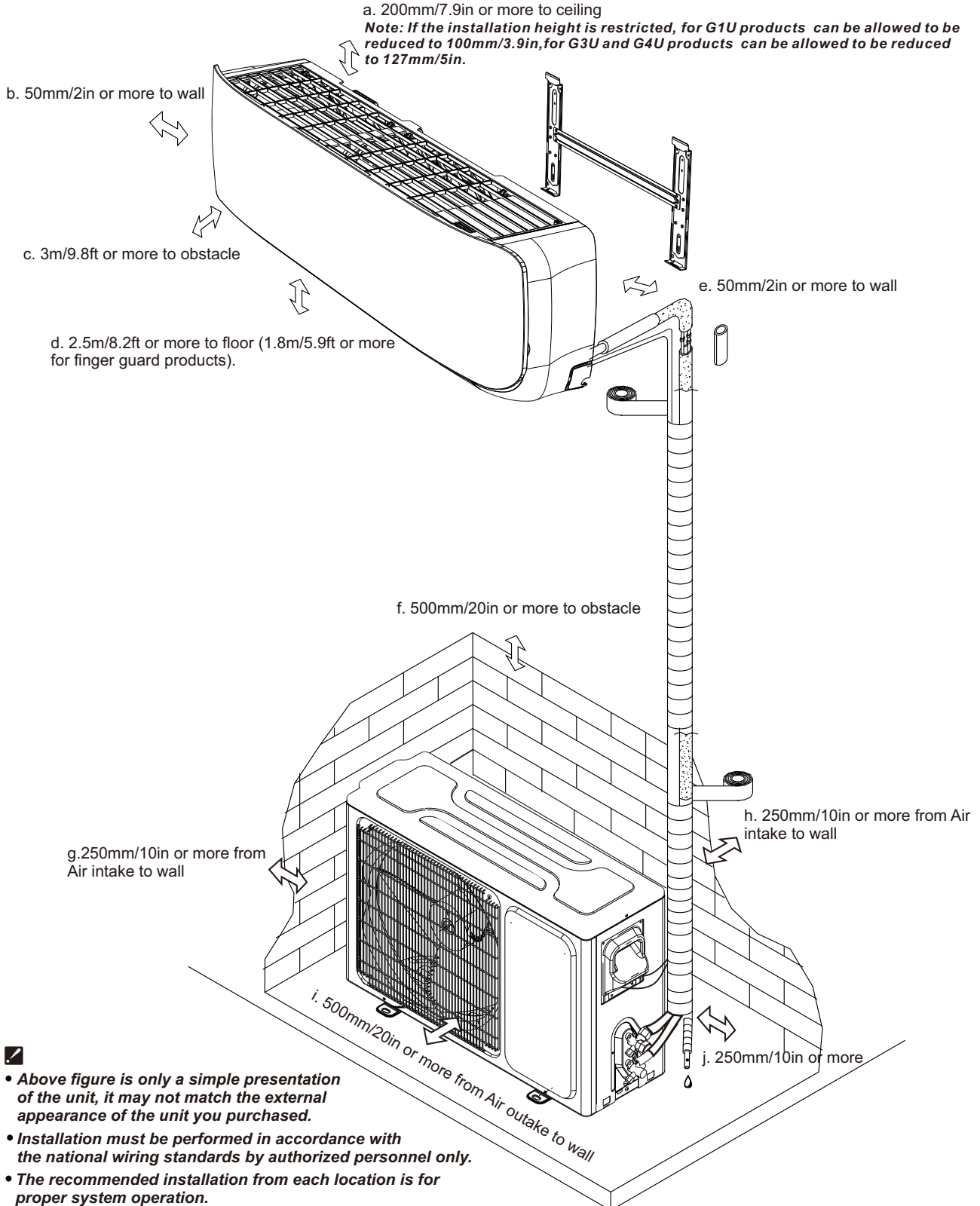


Model	Required amount of additional refrigerant (g/m)
9K-18K	20
24K	30
30K-36K	40

If the height or pipe length is out of the scope of the table, and if the total amount of additional refrigerant and the amount of refrigerant of the existing machine exceeds the maximum refrigerant charge in point 22 of the Safety Instructions section, please consult the merchant.

Installation Instructions

Installation Diagram



Installation Instructions

Indoor Unit Installation

1. Installing the Mounting Plate

FOR the Ordinary Mounting Plate

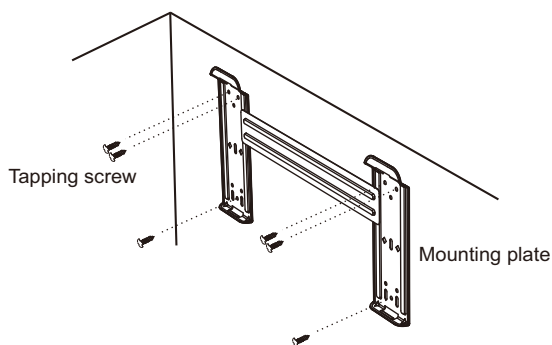
- Decide an installing location for the mounting plate according to the indoor unit location and piping direction.

Note: it is recommended to install screw anchors for sheet rock, concrete block, brick and such type of wall.

- Keep the mounting plate horizontal with a horizontal level or dropping line.
- Mark the center of the indoor unit on mounting plate for future reference.

Note: the center of the mounting bracket may be not the center of the indoor unit.

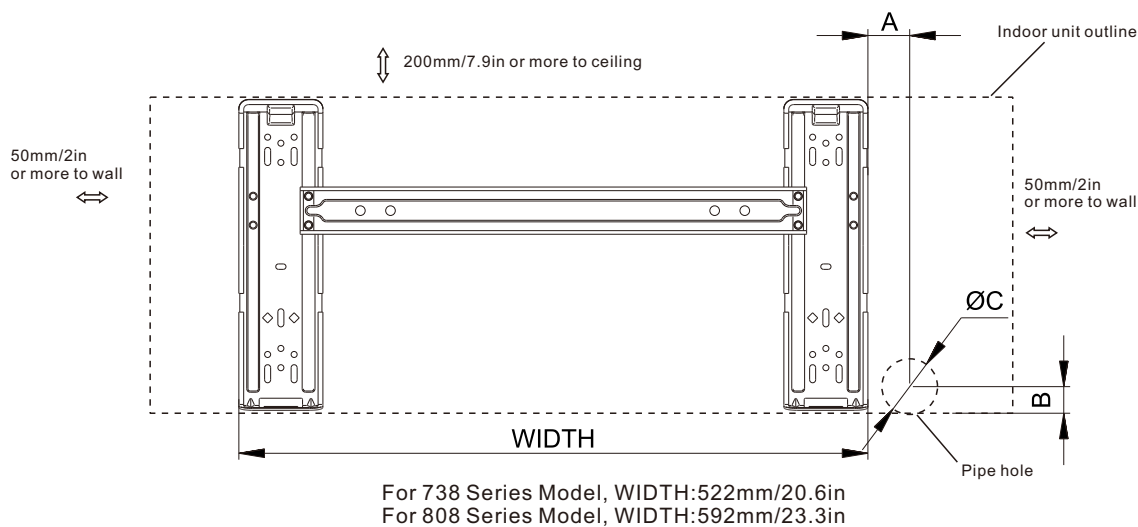
- Tapping mounting plate to the wall with a minimum of five screws, evenly spaced to properly support indoor unit weight.



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

Note: As the above figure shown, the six holes matched with tapping screw on the mounting plate must be used to fix the mounting plate, the others are prepared.

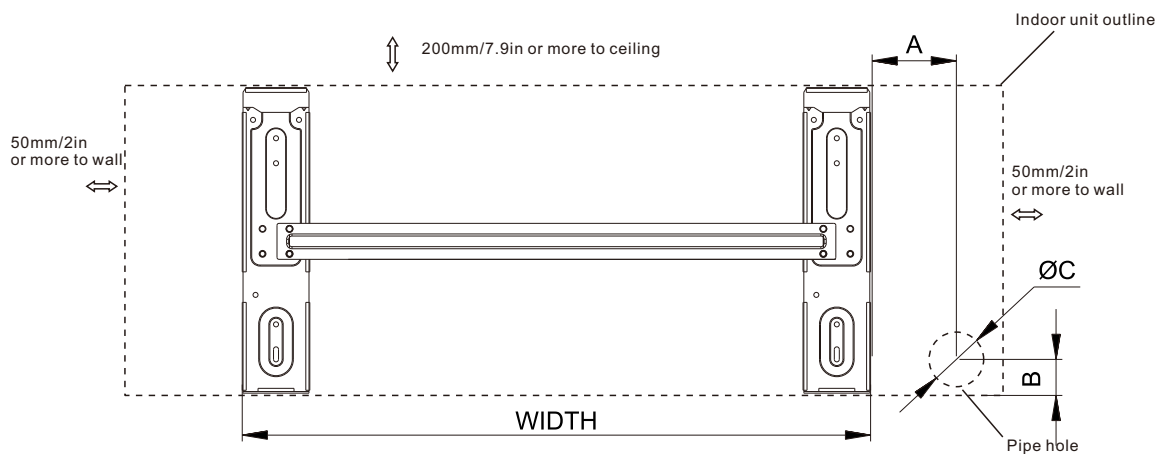
MOUNTING BRACKET DIAGRAMS AND DIMENSIONS (Recommended)



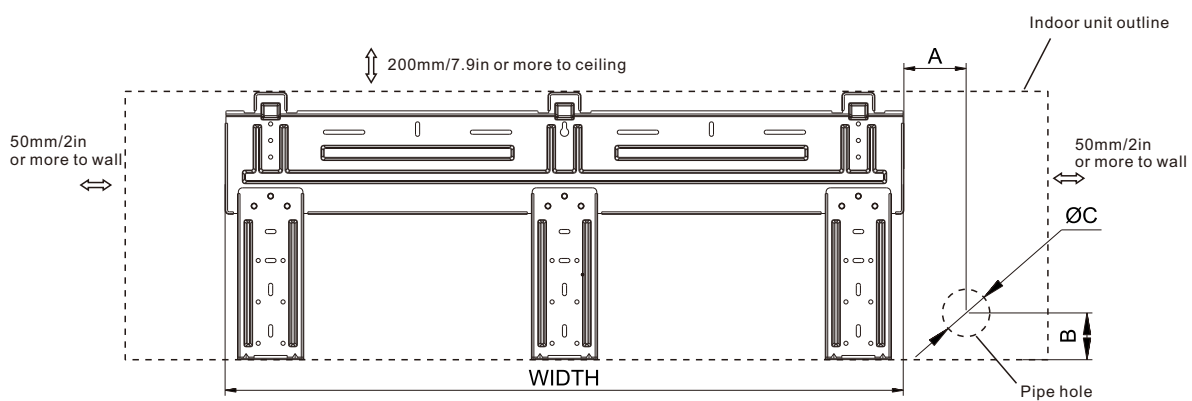
Installation Instructions

FOR the Ordinary Mounting Plate

MOUNTING BRACKET DIAGRAMS AND DIMENSIONS (Recommended)



For 908/1080 Series Model, WIDTH: 629mm/24.8in



For 1280 Series Model, WIDTH: 820mm/32.3in

Installation Instructions

Indoor Unit Installation

FOR the Wooden Wall Mounting Plate

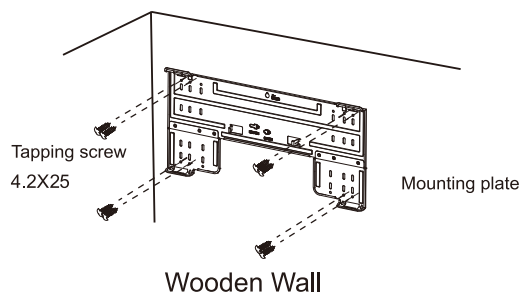
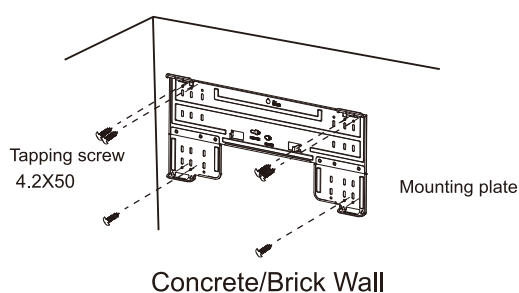
- Decide an installing location for the mounting plate according to the indoor unit location and piping direction.

Note: it is recommended to install screw anchors for sheet rock, concrete block, brick and such type of wall.

- Keep the mounting plate horizontal with a horizontal level or dropping line.
- Mark the center of the indoor unit on mounting plate for future reference.

Note: the center of the mounting bracket may be not the center of the indoor unit.

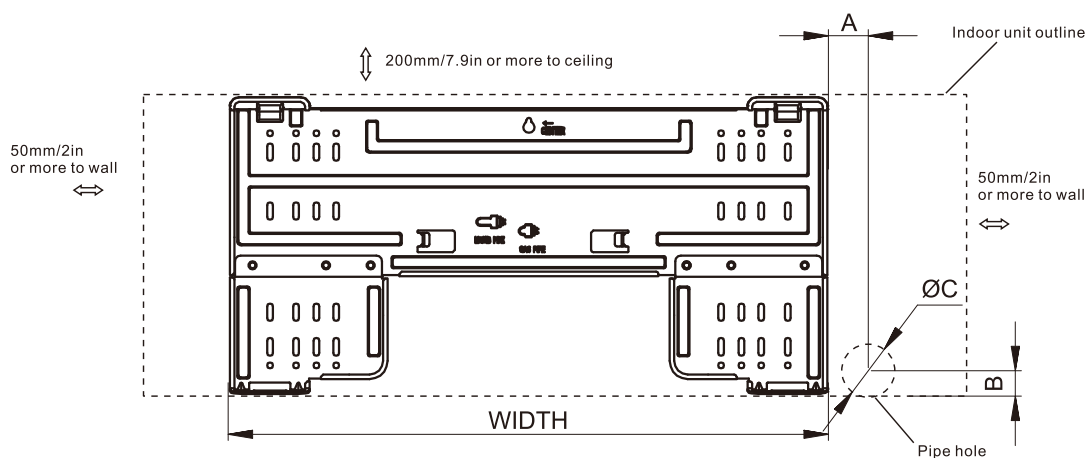
- Tapping mounting plate to the wall with a minimum of five screws, evenly spaced to properly support indoor unit weight.



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

Note: As the above figure shown, the six holes matched with tapping screw on the mounting plate must be used to fix the mounting plate, the others are prepared.

MOUNTING BRACKET DIAGRAMS AND DIMENSIONS (Recommended)

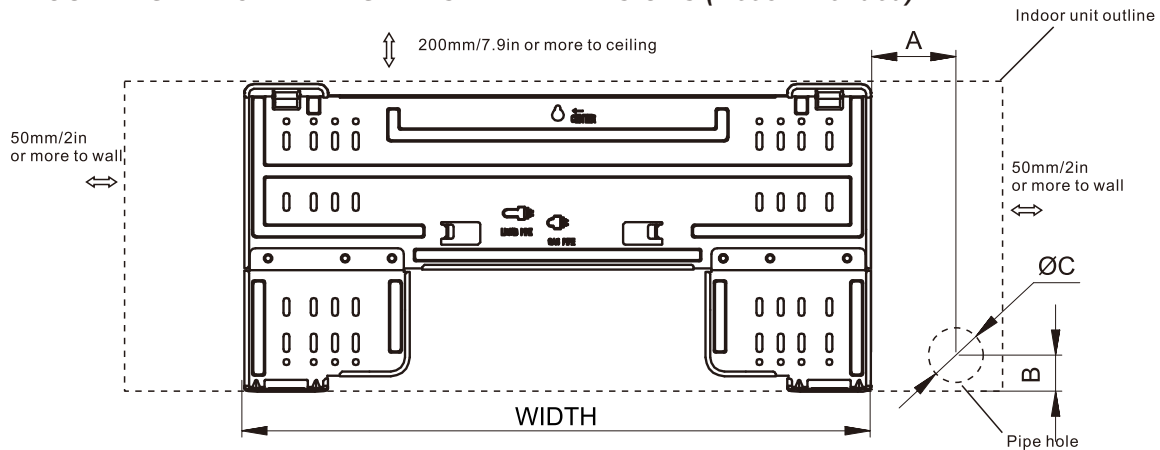


For 738 Series Model, WIDTH:522mm/20.6in
For 808 Series Model, WIDTH:592mm/23.3in

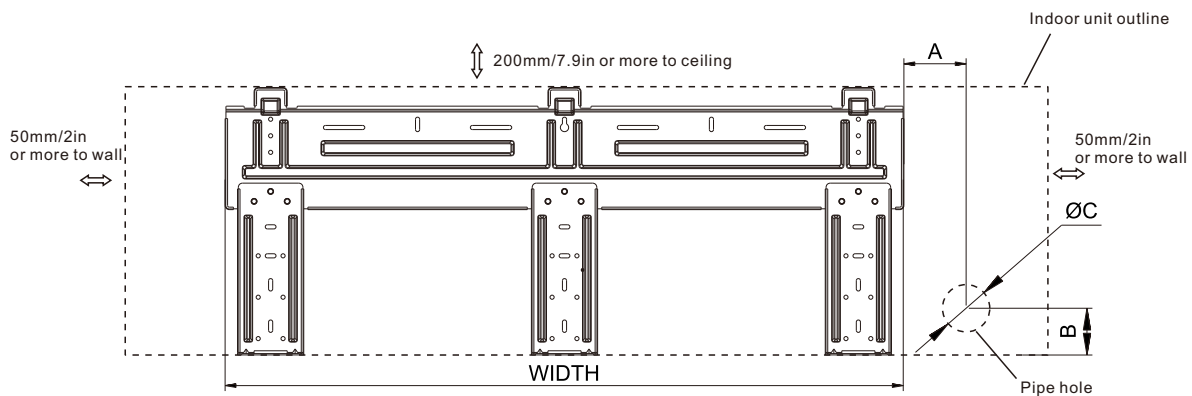
Installation Instructions

FOR the Wooden Wall Mounting Plate

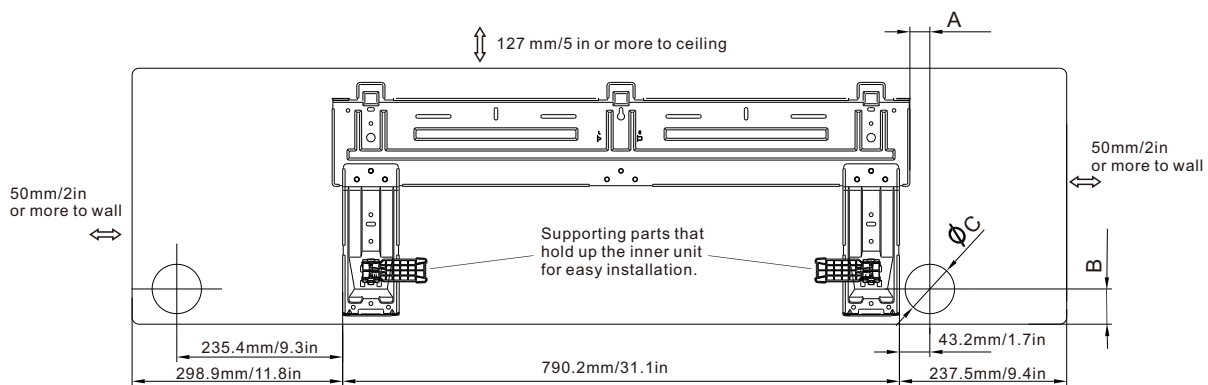
MOUNTING BRACKET DIAGRAMS AND DIMENSIONS (Recommended)



For 908/1080 Series Model, WIDTH: 629mm/24.8in



For 1280 Series Model, WIDTH: 820mm/32.3in

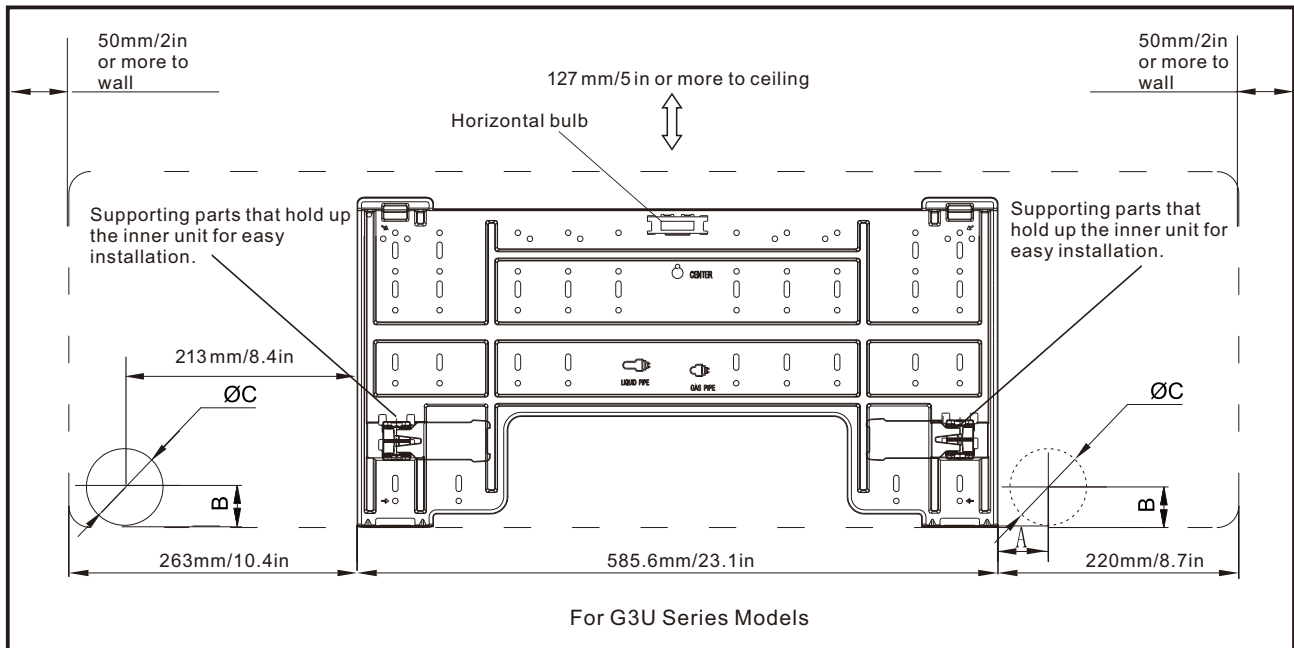
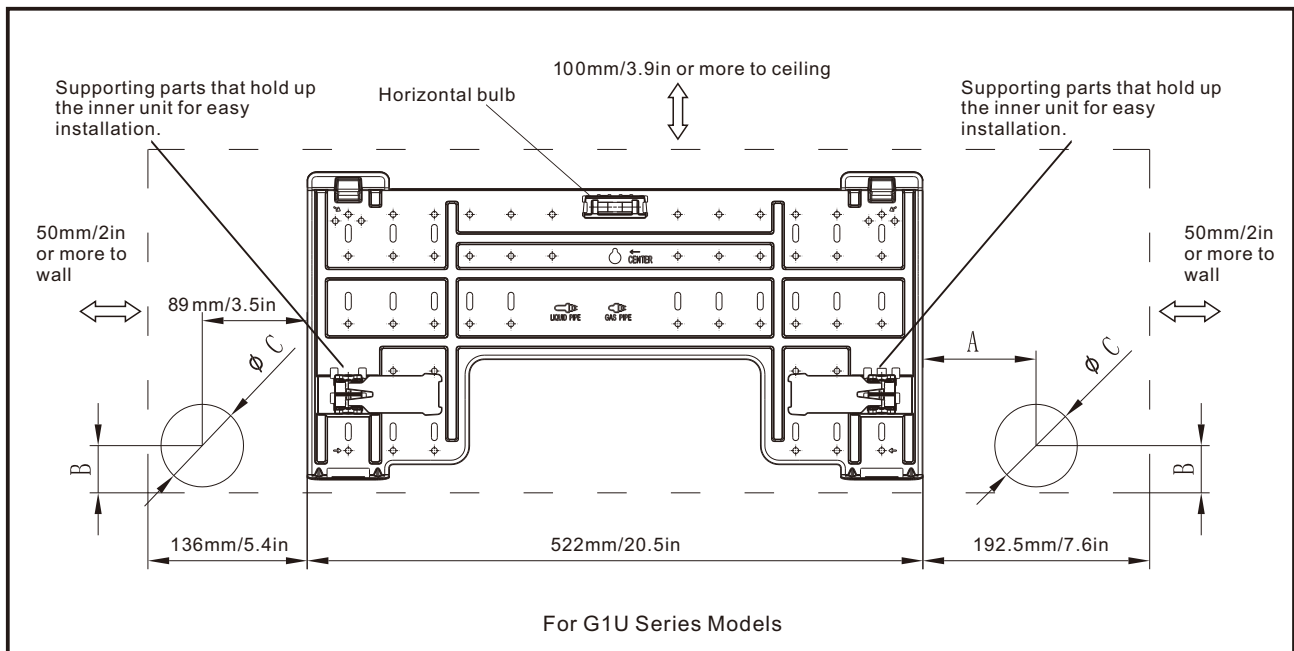


For G4U Series Model

Installation Instructions

FOR the Wooden Wall Mounting Plate

• THE MOUNTING PLATE DIAGRAMS AND DIMENSIONS (Recommended)



Installation Instructions

Indoor Unit Installation

2. Drill a Hole in wall for interconnecting Piping, Drain & Wiring

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

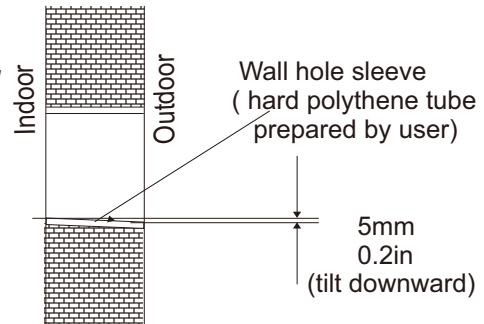
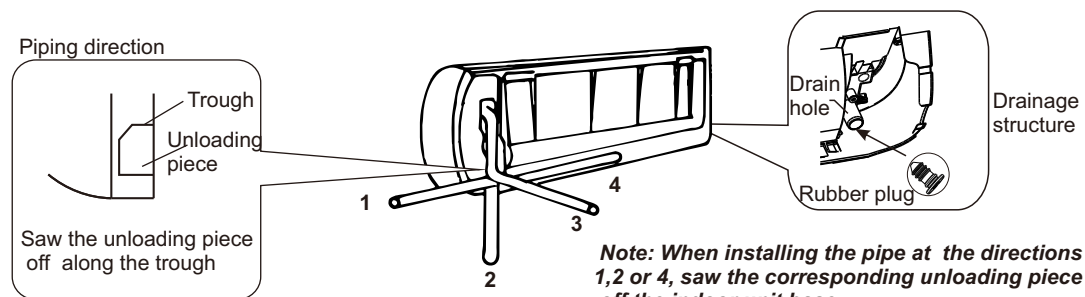


Table of Wall Hole Mounting size per Unit Size

Unit Model	Size A	Size B	Size C
	mm/in	mm/in	mm/in
738 Series	68/2.68	33/1.3	70/2.7
808 Series	70/2.75	35/1.38	70/2.7
908 Series	137/5.4	40/1.57	70/2.7
1080 Series	170/6.7	40/1.57	70/2.7
1280 Series	64/2.52	41.2/1.62	70/2.7
G1U Series	96/3.78	40/1.57	70/2.7
G3U Series	46/1.81	37/1.46	70/2.7
G4U Series	28.3/1.1	50/2.0	70/2.7

3. Piping and Drain Hose Connections to Indoor Unit

- Put the piping (liquid and gas pipe) and cables through the wall hole from outside or put them through from inside after indoor piping and cables connection is complete to connect to the outdoor unit.
- Decide whether to saw the unloading piece off in accordance with the piping direction.(as shown below)



- After connecting the piping , install the drain hose. Then connect the power cords. After connecting, wrap the piping, cords and drain hose together with thermal insulation materials.

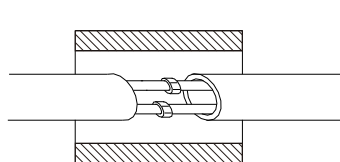
Note: Both sides drainage structure is standard. For both sides drainage structure, it can be chosen for right, left or both sides drainage connection. If choosing both sides drainage connection, another proper drain hose is needed as there is only one drain hose offered by factory. If choosing one side drainage connection, make sure the drain hole on the other side is well plugged.

Installation Instructions

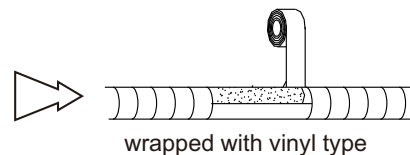
Indoor Unit Installation

• Piping Joints Thermal Insulation:

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



Thermal insulation



wrapped with vinyl tape

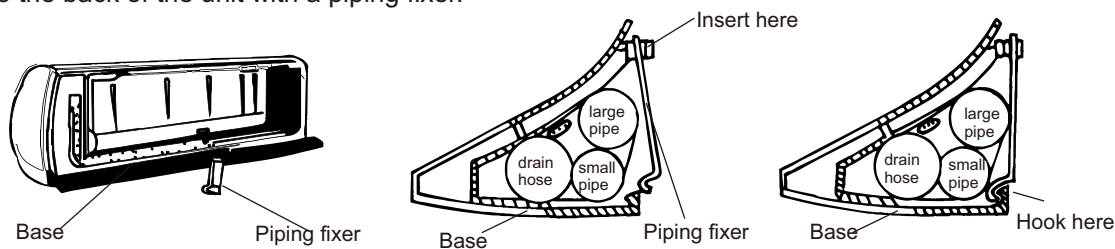
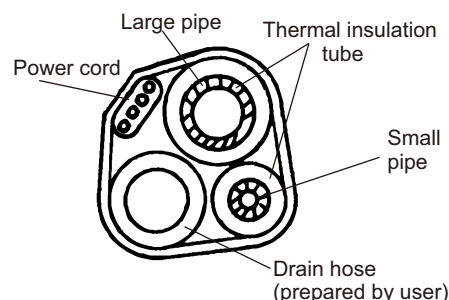
• Piping Thermal Insulation:

a. Place the drain hose under the piping.

b. Insulation material uses polythene foam over 6mm in thickness.

Note: Drain hose is prepared by user.

- Do not arrange the drain pipe in a way that leaves it twisted, sticking out or waving around. Do not immerse the end of it in water.
- If an extension drain hose is connected to the drain pipe, make sure to insulated when passing along the indoor unit.
- When the piping is directed to the right, piping, power Cord and drain pipe should be thermal insulated and fixed onto the back of the unit with a piping fixer.



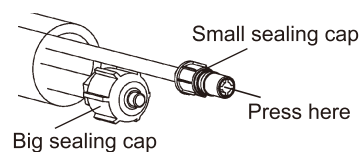
A. Insert the pipe fixer to the slot.

B. Press to hook the pipe fixer onto the base.

Piping Connection:

- Before unscrewing the big and the small sealing caps, press the small sealing cap with the finger until the exhaust noise stops, and then loosen the finger.
- Connect indoor unit pipes with two wrenches. Pay special attention to the allowed torque as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.
- Pre-tighten them with fingers at first, then use the wrenches.

☑ If you don't hear the exhaust noise, please contact with the merchant.



Model	Pipe size	Torque	Nut width	Min.thickness
9K-18K	Liquid Side (ϕ 6 or 1/4)	15~20N·m or 11~15ft-lbs	17 or 5/8	0.5 or 0.02
24K-36K	Liquid Side (ϕ 9.53 or 3/8)	30~35N·m or 22~26ft-lbs	22 or 7/8	0.6 or 0.024
9K-12K	Gas Side (ϕ 9.53 or 3/8)	30~35N·m or 22~26ft-lbs	22 or 7/8	0.6 or 0.024
18K	Gas Side (ϕ 12 or 1/2)	50~55N·m or 37~41ft-lbs	24 or 0.94	0.6 or 0.024
24K-36K	Gas Side (ϕ 16 or 5/8)	60~65N·m or 44~48ft-lbs	27 or 1.1	0.6 or 0.024
36K	Gas Side (ϕ 19 or 3/4)	70~75N·m or 52~55ft-lbs	32 or 1.26	1.0 or 0.039

NOTE:

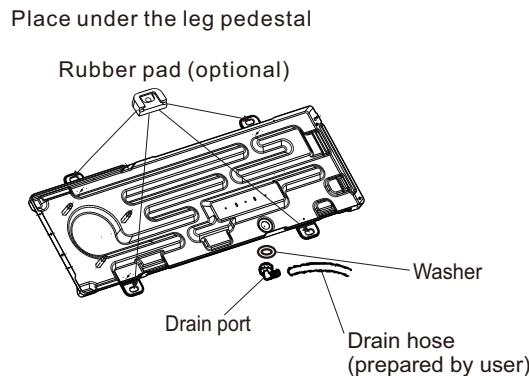
Dimensions are in "mm or inch" unless otherwise stated in the table.

Installation Instructions

Outdoor Unit Installation

1. Install Condensate Drain for Outdoor Unit

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



2. Install Ground Pad or Wall Hangers

1. Determine proper location for outdoor unit.
 2. Follow all instructions provided by manufacturer for installing wall hangers rubber pad.
 3. Verify the wall hangers or rubber pad can safely support the weight of the outdoor unit.
 4. Verify the wall hangers or rubber pad is level and meets all outdoor dimensional clearance.
 5. Fix with bolts and nuts tightly on a flat and strong floor.
- If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.

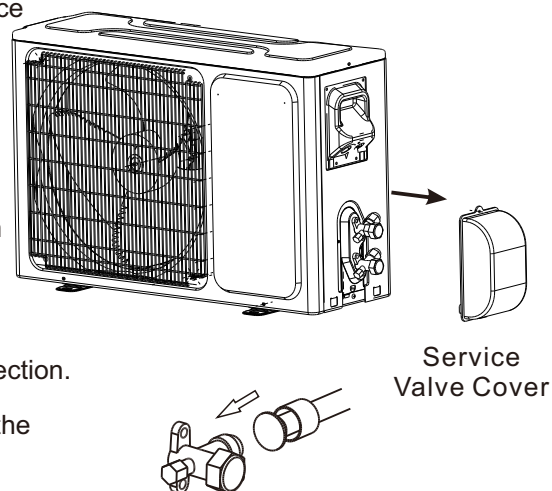
WARNING

Florida wind load requirements state that outdoor unit must be anchored to concrete pad using four 3/8-in diameter power wedge bolt plus(or equivalent) with 1-in diameter fender washers. Anchor bolts must be embedded into 3000 PSI minimum concrete at a distance of 4 1/2- in from any concrete edge. The concrete thickness must exceed 1.5 times the anchor depth.

Installation Instructions

3. Piping Connections to Outdoor Unit

- Remove service valve cover(if provided) to access the service valves and refrigerant ports.
- Carefully bend and adjust length of refrigerant pipes to meet outdoor unit service valves connection with proper tools to avoid kinks.
- Apply a small amount of refrigerant oil to the flare connection on the refrigerant pipe.
- Properly align piping and tighten flare nut using a standard wrench and a torque wrench as shown in the indoor piping section.
- Carefully tighten flare nuts to correct torque level referring to the following Torque Table:



Service Valve Cover

Torque Table

Pipe diameter /inch(mm)	Nut Size /inch(mm)	Tightening Torque	
		ft-lbs	N-m
1/4(6.35)	1/4(17)	11 to 15	15 to 20
3/8(9.5)	3/8(22)	22 to 26	30 to 35
1/2(12.7)	1/2(25)	37 to 41	50 to 55
5/8(15.9)	5/8(29)	44 to 48	60 to 65
3/4(19)	3/4(32)	52 to 55	70 to 75

Note: Over tightening may damage flare connections and cause leaks.

Installation Instructions

Power and Wiring

Connecting of the Cable

• Indoor Unit

Connect the power cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit connection.

Note: For some models, it is necessary to remove the cabinet to connect to the indoor unit terminal.

• Outdoor Unit

1) Remove the cable cross board from the unit by loosening the screw. Connect the wires to the terminals on the control board individually as follows.

2) Secure the power cord onto the control board with cable clamp.

3) Reinstall the cable cross board to the original position with the screw.

4) Use a recognized circuit breaker between the power source and the unit. A disconnecting device to adequately disconnect all supply lines must be fitted.

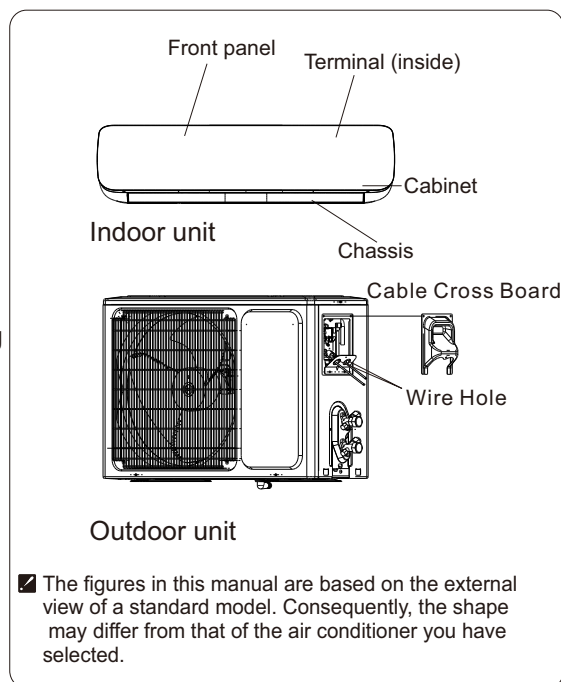
Caution:

1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, refer to the circuit diagram posted on the inside of the access door .
2. Confirm that the cable thickness is as specified in the power source specification.
3. Check the wires and make sure that they are all tightly fastened after cable connection.
4. Be sure to install an earth leakage circuit breaker in wet or moist areas.

Cable Specifications

capacity(Btuh)	Power cord		Power connecting cord	
	Type	Normal cross-sectional areas	Type	Normal cross-sectional areas
9K-12K(208/230V)	SJ TW	3X16 AWG	SJ TW	4X18 AWG
9K*-12K*(208/230V)	SJ TW	3X14 AWG	SJ TW	4X18 AWG
15-18K(208/230V)	SJ TW	3X14 AWG	SJ TW	4X18 AWG
24K-36K(208/230V)	SJ TW	3X12 AWG	SJ TW	4X18 AWG
9K,12K(115V)	SJ TW	3X14 AWG	SJ TW	4X18 AWG

Note: For 9K-12K models, when the MCA (Minimum Circuit Ampacity) current value on its nameplate is greater than 13A, the parameters corresponding to the 9K *-12K * models.



Installation Instructions

Wiring Diagram

Warning:

Before obtaining access to terminals, all supply circuits must be disconnected.

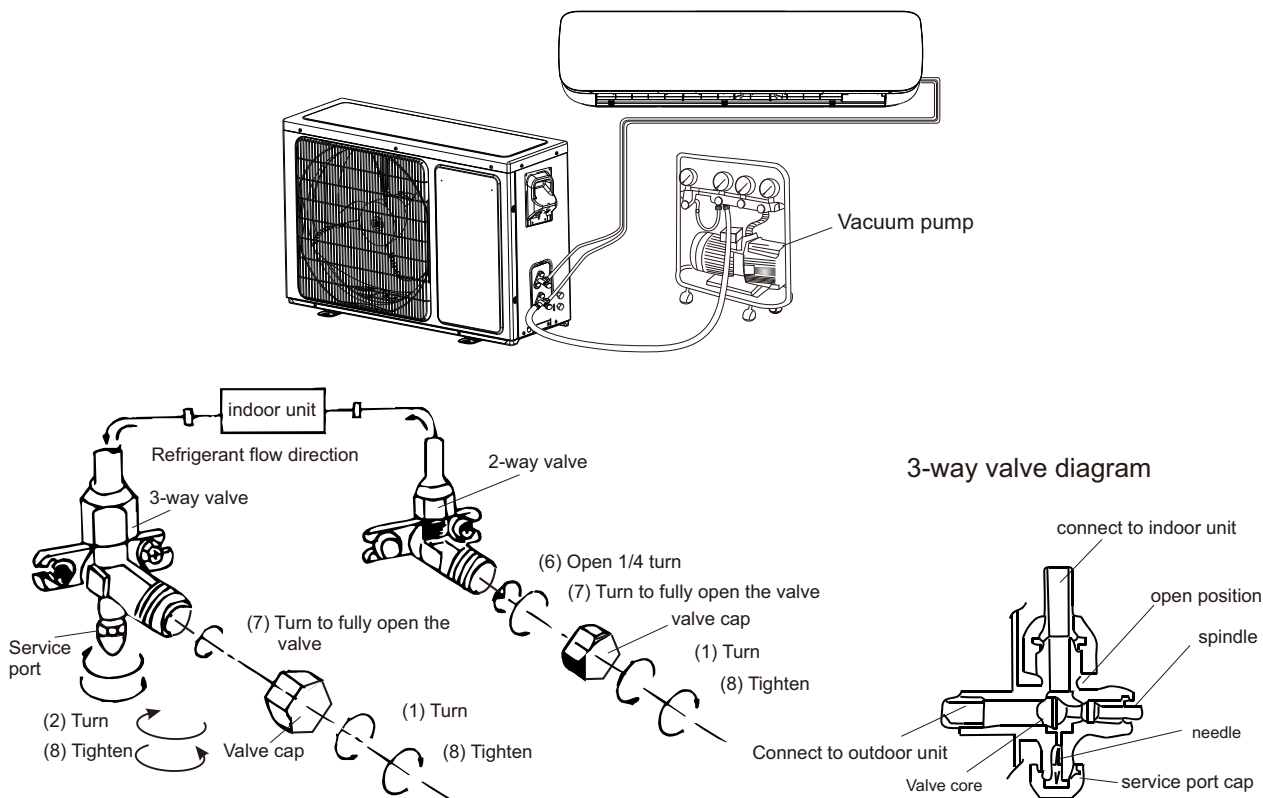
Make sure that the color of the wires in the outdoor unit and terminal No. are the same as those of the indoor unit, the details please refer to the wiring diagram which is near the terminal inside the unit.

Vacuum Testing and Charging

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

If the total amount of refrigerant (additional charged refrigerant add precharged refrigerant) exceeds the refrigerant charge scope in Minimum room area Table in indoor unit manual, please consult the merchant.

Note: To protect the environment, be sure not to discharge the refrigerant to the air directly.



How to Vacuum Air Tubes:

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

Installation Instructions

Start-up

Test Operation

Perform test operation after completing gas leak and electrical safety check.

1. Turn on electrical disconnect to outdoor unit.
2. Push the "ON/OFF" button on Remote Controller to begin testing.
3. Push MODE button, select COOLING, HEATING, FAN mode to confirm all functions.

System Checks

1. Conceal refrigerant pipes where possible.
2. Make sure drain hose slopes downward along entire length.
3. Ensure all refrigerant pipes and connections are properly insulated.
4. Fasten pipes to outside wall, when possible.
5. Seal and weatherproof wall hole which the interconnecting wires and refrigerant pipes pass through.

Indoor Unit

1. Do all Remote controller's buttons function properly?
2. Do the display panel lights work properly?
3. Does the swing louver function properly?
4. Does the drain work?

Outdoor Unit

1. Push the mode button to COOL and adjust the room setting to 61 °F(16°C) deg. wait up to 3 minutes from compressor time guard. Does compressor and outdoor fan turn on in cooling mode?
2. Push the mode button to HEAT and adjust the room setting to 86 °F(30°C) deg. wait up to 3 minutes for compressor time guard. Does compressor and outdoor fan turn on in heat mode?

Care and Maintenance

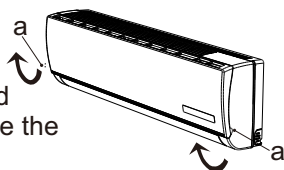
Front panel maintenance

1 Cut off the power supply

Turn off the appliance first before disconnecting from power supply.

2

Grasp position "a" and pull outward to remove the front panel.



3

Wipe with a soft and dry cloth.

Use soft moisture cloth to clean if the front panel is very dirty.



Use a dry and soft cloth to clean it.

4

Never use volatile substance such as gasoline or polishing powder to clean the appliance.



5

Never sprinkle water onto the indoor unit

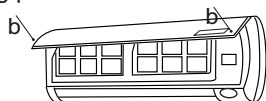


Dangerous!
Electric shock!

6

Reinstall and shut the front panel.

Reinstall and shut the front panel by pressing position "b" downward.



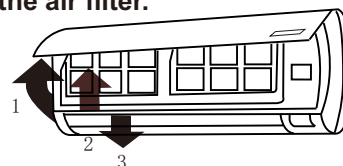
Air filter maintenance

It is necessary to clean the air filter after using it for about 200 hours.

Clean it as follows:

1

Stop the appliance and remove the air filter.



1. Open the front panel.

2. Press the handle of the filter gently from the front.

3. Grasp the handle and slide out the filter.

Note: For products where the A2L Sensor is installed in front of the filter, it is necessary to remove the A2L Sensor before removing the filter.

2

Clean and reinstall the air filter.

If the dirt is conspicuous, wash it with a solution of detergent in lukewarm water. After cleaning, dry well in shade.



3

Close the front panel again.

☑ Clean the air filter every two weeks if the air conditioner operates in an extremely dusty environment.

Protection

◆ Operating condition

Operating temperature

Temperature		Cooling operation	Heating operation	Drying operation
Indoor temperature	max	90°F (32°C)	81°F (27°C)	90°F (32°C)
	min	70°F (21°C)	45°F (7°C)	64°F(18°C)
Outdoor temperature	max	115°F (46°C)	75°F (24°C)	115°F (46°C)
	min	*note	-4°F(-20°C)	70°F (21°C)

NOTE:

**Optimum performance will be achieved within these operating temperature. If air conditioner is used outside of the above conditions, the protective device may trip and stop the appliance.*

**For Tropical (T3) Climate condition models, the outdoor max temperature is 131°F (55 °C) instead of 115°F(46 °C).*

**For some models, can keep cooling at 5°F(-15 °C) outdoor ambient via unique design. Normally, optimum cooling performance will be achieved above 70°F(21 °C). Please consult the merchant to get more information.*

**For R32 refrigerant models can keep heating at -4°F(-20 °C) outdoor ambient , for R454B refrigerant models can keep heating at -13°F(-25 °C) outdoor ambient. For some models, can keep heating even at lower outdoor ambient
The temperature of some products is allowed beyond the range. In specific situation, please consult the merchant. When relative humidity is above 80%, if the air conditioner runs in COOLING or DRY mode with door or window opened for a long time, dew may drip down from the outlet.*

◆ Noise pollution

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

◆ Features of protector

1. The protective device will work at following cases.

- Restarting the unit at once after operation stops or changing mode during operation, you need to wait for 3 minutes.
- Connect to power supply and turn on the unit at once, it may start 20 seconds later.

2. If all operation has stopped, press **ON/OFF** button again to restart, Timer should be set again if it has been canceled.

◆ Features of HEATING mode

Preheat

At the beginning of the HEATING operation, the airflow from the indoor unit is discharged 2-5 minutes later.

Defrost

In **HEATING** operation the appliance will defrost (de-ice) automatically to raise efficiency. This procedure usually lasts 2-10 minutes. During defrosting, fans stop operation. After defrosting completes, it returns to **HEATING** mode automatically.

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

Energy Saving Tips

1. Relaxing room temperature at night is OK: During the nighttime hours you don't require the same level of conscious cooling or heating. Try using Sleep mode to gradually relax room temperature and allow the unit to run less and save energy.

2. Curtains and shades: In the summer, you need to block the effects of the sun. Close window curtains and shades on the south and west side of your home to help block solar heat. In winter, the sun is your friend. Open curtains and shades to allow solar heat into your room.

3. Close doors: If you don't need to heat and cool your whole home, confine the heating and cooling to one room by closing doors. Limit the space you're heating and cooling to specified capability of the unit.

4. Service the unit: Some basic maintenance might be all you need. The outdoor unit will greatly benefit from a good hosing out, especially in treed areas where seeds and other debris can stick to coil fins and make the unit work harder!

5. Rearrange the room: Furniture that obstructs airflow means you could be heating and cooling the back of a chair or the front of a sofa instead of the actual living space. Use the swing louvers to help direct the air in the right direction for the room; remove or rearrange obstacles blocking airflow.

6. Try 75 degrees: 75 (24) is a good point for an air conditioner to run at its optimal performance level. Even a 1-degree change in temperature can make your unit use more energy!

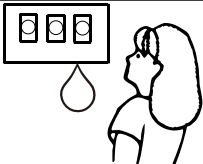
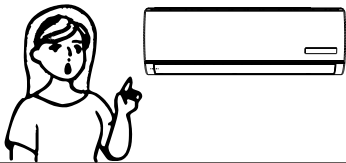
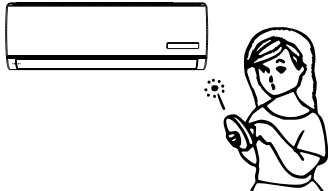
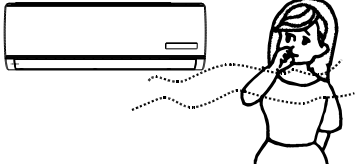
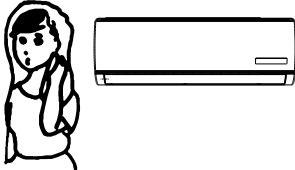
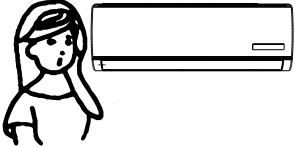
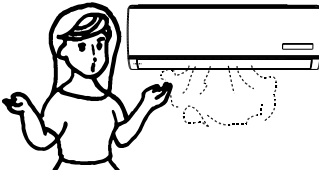
7. Lighting: Turning lights off can help reduce your heat. Each light bulb is a tiny heater. Your air conditioner must waste energy overcoming the heat from your lights to reach and hold your desired room temperature.

8. Is anyone home? If possible, while you're away turn your unit to Auto mode and make sure windows and drapes are closed. Although the room temperature will be uncomfortable for a few minutes when you come home, the unit will have the room back to your desired temperature in no time.

9. Don't forget the fan: The fan is much like a car. The faster it runs, the more energy is consumed. Sometimes we need the car to go fast, but slow is good enough most of the time. Try saving money by using the comfortable quiet low fan speed as much as possible.

Troubleshooting

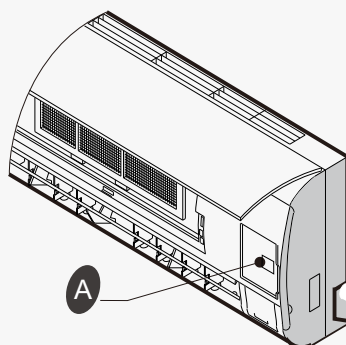
The following cases may not always be a malfunction, please check it before asking for service.

Trouble	Analysis
Does not run 	• If the protector trip or fuse is blown, please wait 3 minutes and start again. The protector device may be preventing unit from working. • The batteries in the remote control may be dead • Check to see if the appliance is properly plugged in.
No cooling or heating air 	• Is the air filter dirty? • Are the intakes and outlets of the air conditioner blocked? • Is the temperature set properly? • Are doors or windows open?
Ineffective control 	• If there is strong interference (from excessive static electricity discharge or power supply voltage abnormality), the appliance may operate abnormally. Disconnect the power supply and connect back 2-3 seconds later.
Does not operate immediately 	• Changing mode during operation, 3 minutes will delay.
Peculiar odor 	• This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.
A sound of flowing water 	• Caused by the flow of refrigerant in the air conditioner. Not a cause for concern. • Sound of defrosting during heating mode.
Cracking sound is heard 	• The sound may be generated by the expansion or contraction of the front panel due to change of temperature.
Spraying mist from the outlet 	• Mist appears when the air in the room becomes very cold. This is because of the cool air discharged from the indoor unit during COOLING or DRY modes.
The compressor indicator lights on constantly, running indicator flashes and indoor fan stops.	• The unit is shifting from heating mode to defrost. The indicator will light off and return to heating mode.

Display introduction

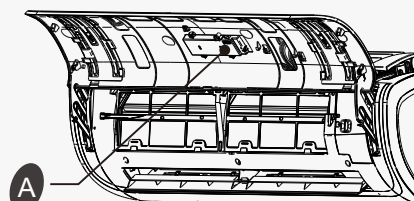
 Temperature indicator Display set temperature. It shows FC after 200 hours of usage as reminder to clean the filter. After filter cleaning press the filter reset button located on the indoor unit behind the front panel in order to reset the display.(optional)	1
 Running indicator It lights up when the AC is running. It flashes during defrosting.	2
 Timer indicator It lights up during set time.	3
 Sleep indicator It lights up in sleep mode.	4
 Compressor indicator It lights up when the compressor is on.	5
 Mode indicator Heating displays orange,others display white	6
 Fan speed indicator	7
 Signal Receptor	8
 Smart WIFI indicator It lights up during WIFI is on.	9
 NANOE indicator It lights up in NANOE mode.	10
 PicoPure indicator It lights up in PicoPure mode.	11

Emergency button A



ON/OFF To let the AC run or stop by pressing the button.

QA/QB series



☑ The symbols may be different from these models, but the functions are similar.

Limited Warranty provided by Comfortside, LLC. (hereby referred to as Comfortside) applies only to registered products installed by a licensed HVAC technician and covers specified products and parts, subject to the following details:

Product Registration: Products must be registered for Limited Warranty within 60 days of installation by licensed HVAC technician. Products can be registered at olmo-comfort.com. Alternatively, the warranty registration card from the product User's Manual can be filled out and sent in as instructed.

Warranty Coverage: The warranty covers the parts of the products which may be defective due to the quality of the materials or workmanship, under normal use and proper maintenance. Warranty is provided only to the first original owner of the Product, where it is originally installed, and is not transferable to the subsequent owners.

Warranty Exclusions: Comfortside is not responsible for any warranty claim:

1. For equipment installed outside of North America.
2. For equipment not installed according to manufacturer's guidelines.
3. For equipment which has been removed from the original site of installation and reinstalled at another location.
4. If registration information cannot be verified (i.e., invalid license number or wrong information provided).
5. Regarding damages or repairs arising as a result of a faulty installation, inappropriate application, or improper use.
6. Regarding damages or repairs arising from any external perils, out of Comfortside's control, acts of nature such as fires, storms, accidents, floods, broken or frozen water pipes, electrical surges, input power with under or overvoltage, lightning, or existence of corrosive substances nearby.
7. Regarding damages or repairs arising from use of non-compatible parts, third-party components, alterations, modifications, or improper applications.
8. Regarding improper service or poor maintenance of the equipment, such as cleaning of all air filters, heat exchangers, fans, and blowers, in addition to any necessary lubrication of internal components and maintenance of external accessories.
9. Regarding changes that can be considered cosmetic, including but not limited to small fin damages, scratches on the unit cover, etc.
10. Regarding resetting of power or the circuit breakers and replacement of other types of fuses, both internal and external.
11. Regarding any damage caused using dirty, recycled, or wrong type of refrigerants and lubricants.
12. Regarding damage due to moisture, air, dust, sand, dirt, etc., that have been allowed into the system.
13. Regarding damage caused by continuing use of the product after a malfunction has been noticed or indicated at the display module, through an error code.
14. Regarding damages or performance issues due to improper matching, product selection, under-sizing, over-sizing, improper installation, or misuse.
15. Regarding loss or replacement of refrigerant, lubricant, or oil.
16. Regarding labor or any costs associated with labor.

Warranty Begin Date: Warranty begins on the date of registration.

Warranty End Date: Products that have not been registered as instructed above are not covered under Warranty. The length of your Warranty depends on the specific model unit you have purchased. Information on Warranty length is available online, by visiting olmo-comfort.com. As further explained below in detail, coverage is only for the original registered user who owns and resides in the dwelling or operates business in the property in which the product is installed.

Remaining Warranty: Any part, component or product that is replaced under the terms of the Warranty, will be covered under the same Warranty for the duration in which the original Warranty for the product is applicable.

Warranty Procedure: Comfortside will furnish a new or refurbished part, without any charge for the part itself, for the replacement of any part that has been determined to have failed, by Comfortside at its sole discretion, due to defects in its materials or workmanship under standard use and proper maintenance. The payment of the shipping costs for the part will be the sole responsibility of the owner of the product. Comfortside reserves the right to ask the owner of the product to return the failed part before or after a replacement part is sent out. The product owner or technician should contact Comfortside Technical Support at (786) 953-6706, Monday to Friday from 9AM to 5PM Eastern Time, while the technician is on site, servicing the unit. The product may or may not display error codes. The technician should be on site while troubleshooting with the Comfortside Technical Support Agent so he or she can address symptoms observed, specific electrical and mechanical measurements, and other detailed information that may be required for proper diagnosis.

While technicians may refer to Comfortside's website or YouTube channel for helpful information, such as manuals and videos based on certain error codes, the technician will need to troubleshoot with the Technical Support Agent for Warranty purposes. Comfortside is not able to remotely diagnose a product and or offer remedies, without proper diagnosis results.

When contacting Technical Support, a licensed technician must be onsite, and the following information needs to be provided:

- The Serial Number of the unit.
- The product purchase invoice and an installation invoice from licensed HVAC technician.
- Case number (if applicable) provided during previous Technical Support call(s).
- Comfortside may ask for photos and/or other diagnostic information it deems necessary prior to processing the Warranty claim.

It should be noted that Comfortside Technical Support Agents troubleshoot on a case-by-case basis, following best practices and procedures to diagnose problems and solutions. Through this process, it is most efficient to diagnose one issue or error code at a time. It is possible that the first suggested solution may or may not solve one problem of multiple failures, in which case the Technician will continue through troubleshooting for remaining issues/error codes.

Labor cost, materials, and other costs: Any labor costs and/or the costs for the supplies or materials used or purchased in the field for the replacement of the defective part, remain the responsibility of the owner. No other costs involved in diagnosis, lodging, transportation, servicing, repair, replacement, installation, removal, shipping, etc., are to be covered under the Warranty.

Refrigerant: Any costs related to charging, recharging, adjustment, or removal of refrigerant, and the cost of the refrigerant itself, are not covered under any circumstances. All products go through vigorous quality controls at various stations and leave the factory in perfect working and sealed condition. Products are individually tested in highly sensitive helium vacuum chambers for existence of refrigerant

leaks Comfortside does not cover any claims related to the lack of refrigerant in new products, discovered upon arrival, or during installation, as well as subsequent refrigerant loss occurring at any time afterward.

This Warranty is not transferable. No person or entity is authorized to change the terms and conditions outlined in this Warranty agreement, in any respect, nor to create any additional obligations or liabilities for any party involved.

This warranty agreement supersedes all prior warranty agreements between the parties and constitutes the complete, final, and exclusive understanding of the parties with respect to the subject matter. All prior negotiations, representations, or promises, whether oral or written, of either party shall be deemed to have been merged herein.

If any part of this Warranty Agreement shall be invalidated for any reason, such part shall be deleted, and the remainder shall be unaffected and shall continue in full force and effect. This Warranty provides you certain legal rights and you may also have other rights, which vary from State to State. Therefore, some of these limitations or exclusions may not apply to you.

States with Express and Implied Warranties: Products in states with Express and Implied Warranties do not need to be registered for Comfortside Warranty. However, for Warranty support, installation invoice should be provided.

Pursuing legal remedies:

ARBITRATION CLAUSE. IMPORTANT. PLEASE REVIEW THIS ARBITRATION CLAUSE, AS IT AFFECTS YOUR LEGAL RIGHTS.

1. This arbitration clause affects your rights against Comfortside and any of its employees, agents, affiliates, successors, or assignees, all of whom together are referred to below as “we” or “us” for the simplicity of reference.
2. **ARBITRATION REQUIREMENT: EXCEPT AS STATED BELOW, ANY DISPUTE BETWEEN YOU AND ANY OF US SHALL BE DECIDED BY NEUTRAL AND BINDING ARBITRATION, RATHER THAN ANY COURT OR BY TRIAL BY JURY. ARBITRATION WILL BE HANDLED ONLY ON AN INDIVIDUAL BASIS AND ALL PARTIES EXPRESSLY WAIVE; ANY RIGHTS TO PARTICIPATE AS A CLASS REPRESENTATIVE OR CLASS MEMBER, ANY RIGHTS TO CLASS ARBITRATION OR ANY CONSOLIDATION OF INDIVIDUAL ARBITRATIONS. THE ARBITRATOR WILL BE A MEMBER OF THE AMERICAN ARBITRATION ORGANIZATION.** The meaning of “Dispute” has the broadest possible meaning allowable by law, including any controversy, claim or other dispute, relating to or arising from the purchase of the product, any of the warranties upon the product, or the condition of the product, as well as the determination of the application or the scope of the Arbitration Clause itself. Rights to appeal and discovery are also limited in arbitration based on the rules of the arbitration organizations.
3. **Governing Law:** Effect and procedures of arbitration will be governed by the Federal Arbitration Act (9 U.S.C. § et seq.) rather than any related state law. In case of any substantive warranty, your claims and rights under such substantive warranty will be governed by the applicable law of the state in which Product was purchased.
4. **Location of the Arbitration:** Unless otherwise provided under the applicable law, arbitration hearing will be conducted in the judicial district in Miami-Dade County, Florida.
5. **Costs of the Arbitration:** Unless otherwise provided under the applicable law, each party will be responsible for its own cost, payable to the arbitration organization, and the costs of their attorneys, experts or other fees.
6. **Survival and Enforceability of the Arbitration Clause:** This arbitration clause will survive the expiration or termination of this warranty agreement, indefinitely.

OLMO

www.olmo-comfort.com

04062026