



User Manual

SPLIT AIR CONDITIONER

Indoor Unit

MZ-COSMO9/I

MZ-COSMO12/I

MZ-COSMO18/I

MZ-COSMO24/I

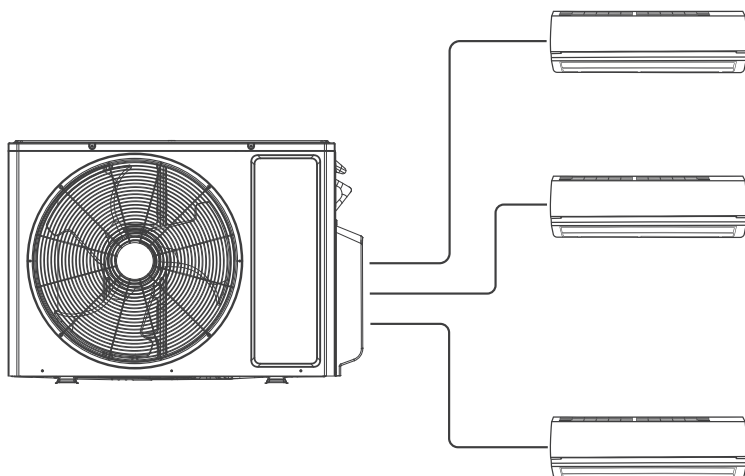
Outdoor Unit

MZ-COSMO18/O

MZ-COSMO24/O

MZ-COSMO30/O

MZ-COSMO36/O



Before installing and using your TOSOT Air Conditioner, please read this user manual in its entirety.



Welcome to the TOSOT Direct Family!

We're extremely happy to welcome you as a new member of our family! Please read the tips below before using your product for the first time.

Tips for First-Time Use

1. The split-type air conditioner is a heavy object, which needs two or more people to lift and install. Failure to do so could result in injury or other accidents.
2. Allow the unit to sit upright for at least 3-4 hours before powering on. Shipping carriers may set the unit on its side, which causes the refrigerant to pool in certain areas. Standing the unit upright for 3-4 hours allows the refrigerant to move freely within the coils.
3. Some parts with sharp edges may cause injury, so gloves are highly recommended for unpacking and installing.
4. Run the unit continuously for 24 hours after installation. This allows the unit to work out any "kinks" that may have resulted during shipping from our factory to your doorstep.
5. If you have any problems with your product, please send us an email before submitting a return request, as there might be a simple solution for your issue.

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Safety Precautions

Your safety and the safety of others are very important to us. Please read the following safety precautions before use and installation. A digital version can be obtained from customer support.

Warning

Failing to follow the following instructions might cause the possibility of death or serious injury.

- This appliance can be used by children aged 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 the 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 done by children without supervision.
- Repairs and installation must be performed by qualified professionals. Otherwise, it may cause personal injury or damage.
- **Do not** spray or wash the air conditioner with water to avoid electric shock or malfunction.
- After removing the filter, do not touch the fins to avoid injury.
- **Do not** insert fingers or objects into the air inlet or air outlet. It may cause personal injury or damage.
- **Do not** block the air outlet or air inlet. It may cause malfunction.
- If the air conditioner operates under abnormal conditions, it may cause malfunction, electric shock, or fire hazard.
- When turning on or turning off the unit by emergency operation switch, please press this switch with an insulating object other than metal.
- **Do not** step on the top panel of the outdoor unit, or put heavy objects. It may cause damage or personal injury.
- All wires of the indoor unit and outdoor unit should be connected by a professional electrician.
- If the length of the power connection wire is insufficient, please contact the supplier. Do not try extending the wire by yourself.
- For the air conditioner without a plug, a circuit break must be installed in the line.

- If you need to relocate the air conditioner to another place, only a qualified person should perform the work. Otherwise, it may cause personal injury or damage.
- Select a location that is out of reach for children and far away from animals or plants. If it is unavoidable, please add a fence or other barrier for safety purposes.

Caution

- Please follow the instructions for installation and use of this product in this user manual.
- The indoor unit should be installed close to the wall.
- The appliance must be positioned so that the plug is accessible. The plug should be able to reach a properly grounded wall outlet after finishing installation. Extension cords, power strips, or similar devices should not be used with this product.
- The yellow-green wire in the air conditioner is a grounding wire, which cannot be used for other purposes.
- The temperature of the refrigerant circuit will be hot. Please keep wires and cables away from the copper refrigerant tube.
- **Do not** spill water on the remote controller, otherwise, the remote control may stop working.
- **Do not** use a hair dryer to dry the filter after washing to avoid deformation or fire hazards.
- **Do not** step or put heavy objects on the top panel of the outdoor unit. It may cause damage or personal injury.
- If any of the below issues occur, please turn off the air conditioner and disconnect power immediately. Contact the dealer or qualified professionals for service.
 - a. Power cord is overheating or damaged.
 - b. There are abnormal sounds during the operation.
 - c. Circuit breakers trip frequently.
 - d. Air conditioner gives off a burning smell.
 - e. The indoor unit is leaking.
- Volatile liquids such as thinner or gasoline will cause damage to the appearance of the air conditioner. (Only use a soft, dry or moist cloth to clean the air conditioner).
- This product has to be disposed of at an authorized place for recycling of electrical and electronic appliances. Do not dispose of this product with general household waste.
- **Do not** use a fire or hair dryer to dry the filter to avoid deformation or fire hazards.

Electrical Safety Warning

- When having a burning smell or smoke, please turn off the power supply and contact TOSOT.
- **Do not** connect the air conditioner to a multi-purpose socket extension cord, or power strip, as it may cause a fire hazard.
- Disconnect the power supply when cleaning the air conditioner.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.
- The grounding resistance should comply with national electric safety regulations.
- The air conditioner must be properly grounded with a specialized grounding device by a professional. Please ensure it is always grounded effectively, otherwise it may cause electric shock.
- Rated voltage of this air conditioner is 208/230V, 60Hz, The compressor will vibrate sharply if the voltage is too low, resulting in damage to the refrigerating system. Electrical components are easy to damage if the voltage is too high.

The Refrigerant



Refrigerant
Safety Group
A2L

This appliance is filled
with flammable R-32 gas.



Before installing the appliance,
read this manual first.



Before use the appliance,
read this manual first.



Before repairing the appliance,
read this manual first.

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and odorless. Furthermore, it can lead to explosions under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.
- Compared to other common refrigerants, R-32 is an environmentally friendly refrigerant that does not harm the ozone layer and has a lower greenhouse effect. Its excellent thermodynamic properties contribute to high energy efficiency, requiring less refrigerant and reduced maintenance.

WARNING

- Appliance filled with flammable gas R32.

- Appliance shall be installed, operated and stored in a room with a floor area not less than 7.1m (76.5ft).
- 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.)
- 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 so as to prevent mechanical damage from occurring.
- Ducts connected to an appliance shall not contain an ignition source.
- Keep any required ventilation openings clear of obstruction.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Servicing shall be performed only as recommended by the manufacturer.
- Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous.
- Compliance with national gas regulations shall be observed.

Safety Operation of Flammable Refrigerants

Qualification of Workers

Qualification of the working personnel for maintenance, service and repair operations should according to UL 60335-2 -40, CAN/CSA-C22.2 No. 60335-2-40: 22 Annex HH.

Every working procedure that affects safety means shall only be carried out by competent persons according to Annex HH. Special training additional to usual refrigerating equipment repair procedures is required when equipment with FLAMMABLE REFRIGERANTS is affected.

Installation Notes

- The air conditioner must be installed in a room that is larger than the minimum room area. The minimum room area is shown on the nameplate or following table A.
- It is not allowed to drill hole or burn the connection pipe.
- Leak test is a must after installation.

Table A – Minimum Room Area (m²)

Based on UL 60335-2-40 requirements. The following installation height and area for customer reference.

Charge Amount (kg)	Height of ventilation opening (m)				
	0.6	1.8	2.2	2.5	3
<1.836	/	/	/	/	/
1.85	29.4	6.8	5.5	4.9	4.1
1.9	31.0	6.9	5.7	5.0	4.2
1.95	32.7	7.1	5.8	5.1	4.3
2	34.4	7.3	6.0	5.3	4.4
2.05	36.1	7.5	6.1	5.4	4.5
2.1	37.9	7.7	6.3	5.5	4.6
2.15	39.7	7.9	6.4	5.7	4.7
2.2	41.6	8.0	6.6	5.8	4.8
2.3	45.5	8.4	6.9	6.1	5.1
2.4	49.5	8.8	7.2	6.3	5.3
2.5	53.7	9.1	7.5	6.6	5.5
2.6	58.1	9.5	7.8	6.8	5.7
2.7	62.6	9.8	8.1	7.1	5.9
2.8	67.4	10.2	8.4	7.4	6.2
2.9	72.3	10.6	8.7	7.6	6.4

Maintenance Notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.
 - It's only allowed to be operated in the rooms that meet the requirement of the nameplate.
- Check whether the maintenance area is well-ventilated.
 - The continuous ventilation status should be kept during the operation process.
- Check whether there is fire source or potential fire source in the maintenance area.
 - The naked flame is prohibited in the maintenance area; and the “no smoking” warning board should be hanged.
- Check whether the appliance mark is in good condition.
 - Replace the vague or damaged warning mark.

Welding

- If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:
 - a. Shut down the unit and cut power supply
 - b. Eliminate the refrigerant
 - c. Vacuuming
 - d. Clean it with N₂ gas
 - e. Cutting or welding
 - f. Carry back to the service spot for welding
- The refrigerant should be recycled into the specialized storage tank.
- Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.

Filling the Refrigerant

- Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.
- The refrigerant tank should be kept upright at the time of filling refrigerant.
- Stick the label on the system after filling is finished (or haven't finished).
- Don't overfilling.
- After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's removed.

Safety Instructions for Transportation and Storage

- Please use the flammable gas detector to check before unload and open the container.
- No fire source and smoking.
- According to the local rules and laws.

Safety of Construction

- For appliances using FLAMMABLE REFRIGERANTS, all joints made in the installation between parts of the REFRIGERATING SYSTEM, with at least one part charged, shall be made in accordance with the following:
 - A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the REFRIGERATING SYSTEM parts. A vacuum valve shall be provided to evacuate the interconnecting pipe or any uncharged REFRIGERATING SYSTEM part.
 - 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 refabricated.
 - Refrigerant tubing shall be protected or enclosed to avoid damage.
 - Flexible refrigerant connectors (such as connecting lines between the indoor and outdoor unit) that may be displaced during NORMAL OPERATION shall be protected against mechanical damage.

Pressure Test and Leak Detect

- 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.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

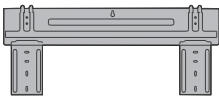
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The distance between the user and device should be no less than 20cm.

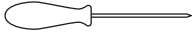
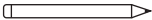
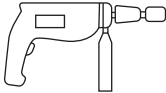
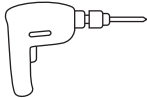
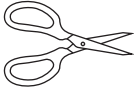
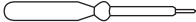
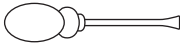
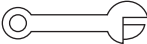
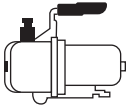
Parts List

The air conditioning system comes with the following accessories. The quantity depends on the models.

PART	LOOKS LIKE	QUANTITY
Mounting Plate		1 piece for each indoor unit
Screws		1 set for each indoor unit
Conversion Joint		0-3 pieces for the outdoor unit, depending on model
Drain Joint		1 piece for each indoor unit
Remote Control		1 piece for each indoor unit
Remote Control Holder		1 piece for each indoor unit
AAA Battery		2 pieces for each indoor unit

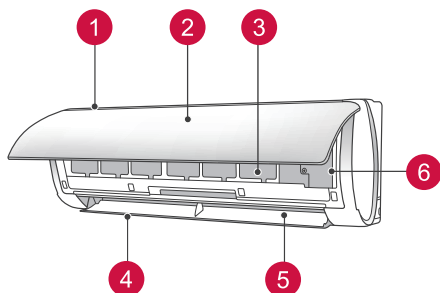
PART	LOOKS LIKE	QUANTITY
Wall Sleeve		1 set for each indoor unit
Pipe Bundle (16ft/5m)		1 set for each indoor unit
Signal Cable (20ft/6m)		1 piece for each indoor unit
Sealing Gum		1 piece for each indoor unit
Drain Hose (20ft/6m)		1 piece for each indoor unit
Tape		4 pieces for each indoor unit

Note: Wall sleeve, pipe bundles, signal cable, sealing gum, drain hose, and tapes are packed in a separate package from the other parts.
The arrival of units and accessories may be at a different time.

Additional Tools Required for Installation (Not included)		
Bubble Level 	Measuring Tape 	Screwdriver 
Pencil 	Drill with Hole Saw 	Electric Drill 
Scissors 	Voltage Tester 	Universal Multimeter 
Torque Wrench 	Standard Wrench 	Hexagonal Allen Wrench 
Manifold Gauge 	Vacuum Pump 	Needle Nose Pliers 
Electronic Leakage Detector 		

Parts Description

Indoor Unit

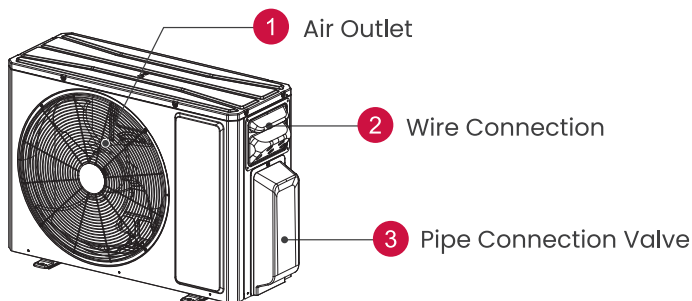


- 1 Air Inlet
- 2 Front Panel
- 3 Reusable Filter
- 4 Air Outlet
- 5 Horizontal Louver
- 6 Aux Button

Display

Temp Indicator	26
Power Indicator	⏻

Indoor Unit

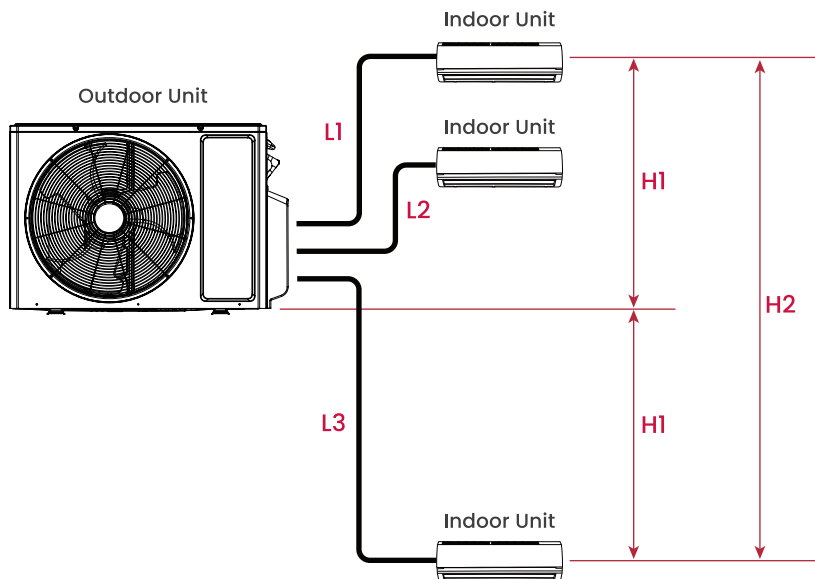


Note: This is a universal introduction to a variety of models. The display content may be different from the actual unit. Please refer to the actual unit.

Specifications

Note		MZ-M18/O	MZ-M24/O	MZ-M30/O	MZ-M36/O
L1+L2+L3	Max. pipe length for all rooms	131 ft (40 m)	197 ft (60 m)	262 ft (80 m)	262 ft (80 m)
L3	Max. pipe length for one indoor unit	82 ft (25 m)	98 ft (23 m)	98 ft (30 m)	115 ft (35 m)
H1	Max. height difference between indoor and outdoor unit	49 ft (15 m)	49 ft (15 m)	82 ft (25 m)	82 ft (25 m)
H2	Max. height difference between indoor units	49 ft (15 m)	49 ft (15 m)	82 ft (25 m)	82 ft (25 m)

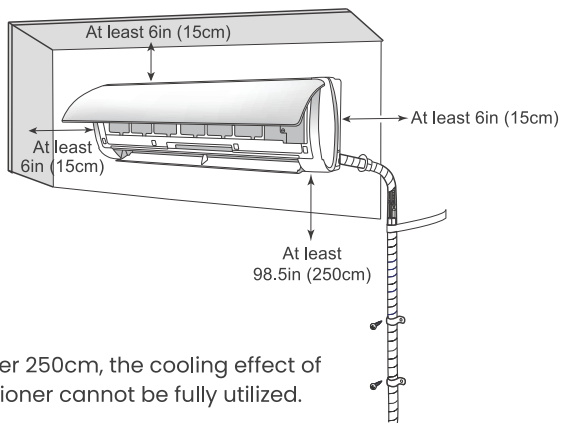
Note: When installing multiple indoor units with a single outdoor unit, ensure that the length of the refrigerant pipe and the drop height between the indoor and outdoor units meet the requirements illustrated in the following diagram:



Note: Determine all the indoor units and outdoor unit positions before installation to ensure it will meet the parameters outlined above.

Installation

1. Select an Indoor Unit Installation Site



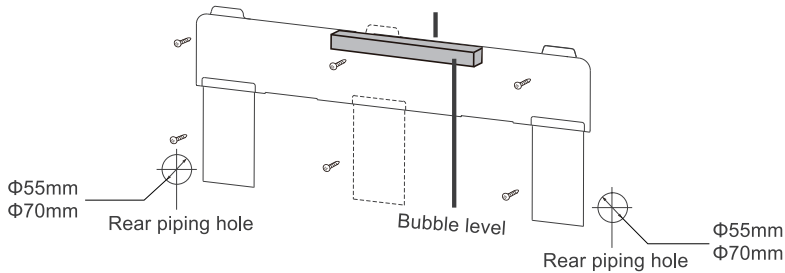
An appropriate installation location should follow these standards:

- Convenient drainage for water condensation.
- Convenient to connect the outdoor unit
- Near a properly grounded wall outlet
- Not easily accessible for children.
- Strong enough to support the weight of the unit.
- Away from other electric appliances (e.g. TV, radio, computer, etc.)
- Not near fluorescent lamps.

DO NOT install the unit in the following locations:

- Near strong heat sources or where vapors, flammable or explosive gas, or volatile objects can be spread in the air.
- Near high-frequency devices such as welding machines or medical equipment.
- Corrosive environments such as the laundry room or swimming pool.
- Any filled with oil, sulfurated gas, or fumes in the air.

2. Attach the Mounting Plate to the Wall

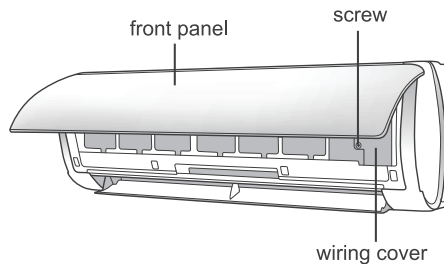


- Hold the mounting plate against the wall and adjust the plate using a bubble level until perfectly level.
- Mark screw holes on the wall and drill pilot holes with a drill. You may need a stud finder to find wooden studs to securely anchor the mounting plate. Do not just drill holes through drywall as this is not strong enough to support the indoor unit. Drywall anchors are supplied if needed, but screwing directly into a stud is the safest and most secure option.
- Secure the mounting plate to the wall with the provided screws until the mounting plate is firmly attached to the wall.

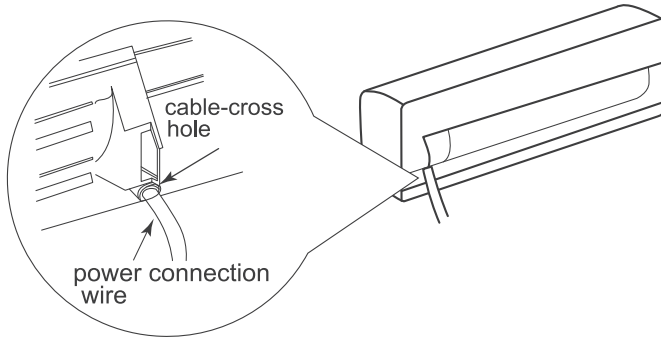
3. Connect the Indoor Unit Wiring

Note: All wiring of the indoor and outdoor units should be completed by a professional electrician or HVAC installer.

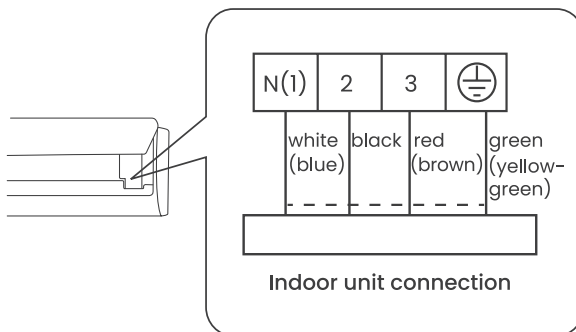
- Open the front panel of the indoor unit and use a screwdriver to pry open the wiring cover located on the right side. This will reveal the terminal block.



- Using wire strippers, remove the rubber insulation from both ends of the signal cable to reveal approx. 6 inches (15cm) of wiring.
- Using a crimp tool, crimp U-Type lugs (not included) on both ends of the wires.
- Feed the signal cable from the rear right of the unit through the cable cross hole and pull it through from the front of the unit.



- Match the colored wires to the correct labels on the terminal block. Connect the signal cable and firmly screw each wire to its corresponding terminal.



NOTE: Make sure the connection is following the instructions.

- After ensuring that each connection is secure, tightly screw down the cable clamp.
- Snap the wiring cover back into place and shut the front panel.

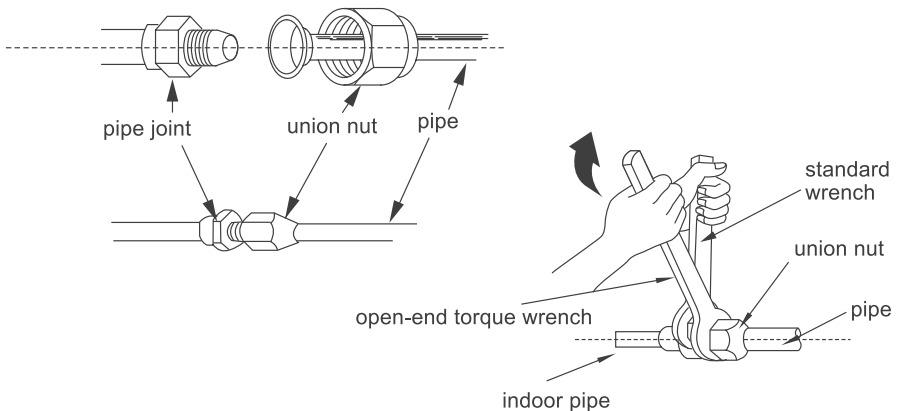
4. Connect the Indoor Unit Refrigerant Piping

- Choose the corresponding pipes according to the diagram.

Model	Liquid Pipe Diameter (inch)	Gas Pipe Diameter (inch)
MZ-COSMO9/I MZ-COSMO12/I	1/4	3/8
MZ-COSMO18/I MZ-COSMO24/I	1/4	1/2

- There is a small amount of refrigerant in the pipe for testing before it leaves the factory. When unscrewing the screw cap of the refrigerant pipe, there will be a sound to indicate the refrigerant has not leaked during transportation. If there is no sound, the pipe may be broken, please check for leaks or contact the customer support team.
- Align both ends of the refrigerant piping and start to twist on the union nut by hand.
- Use a standard wrench on the pipe joint and an open-end torque wrench on the union nut to apply the proper torque as shown in the torque table below.

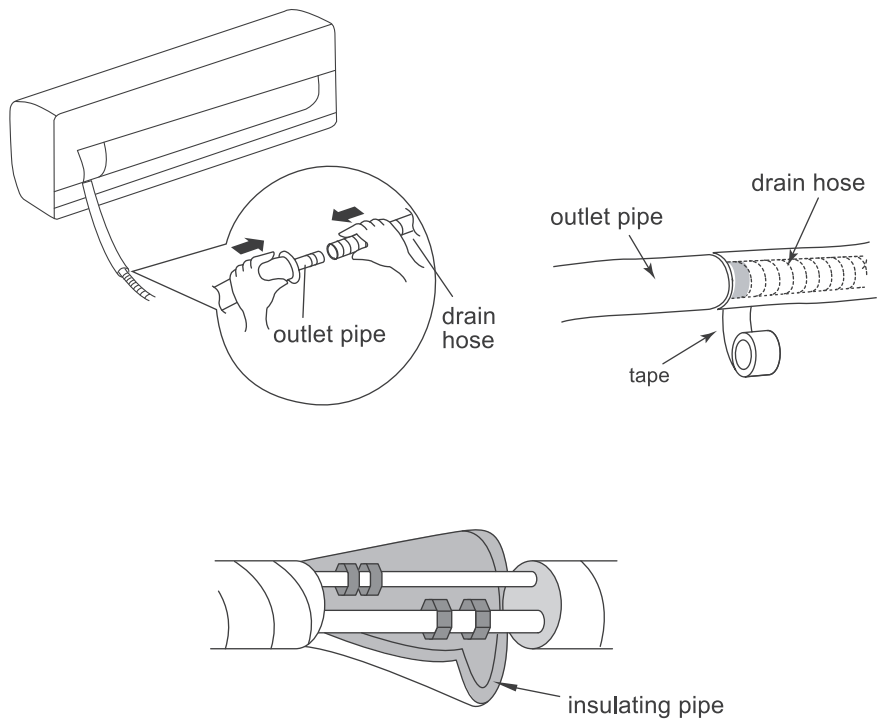
Note: If the union nut is too loose it will cause leaks. Over-tightening may damage connections and cause leaks. Carefully tighten the union nut to the correct torque level referring to the Torque Table below using a calibrated torque wrench. If you need help on this step, please contact customer support.



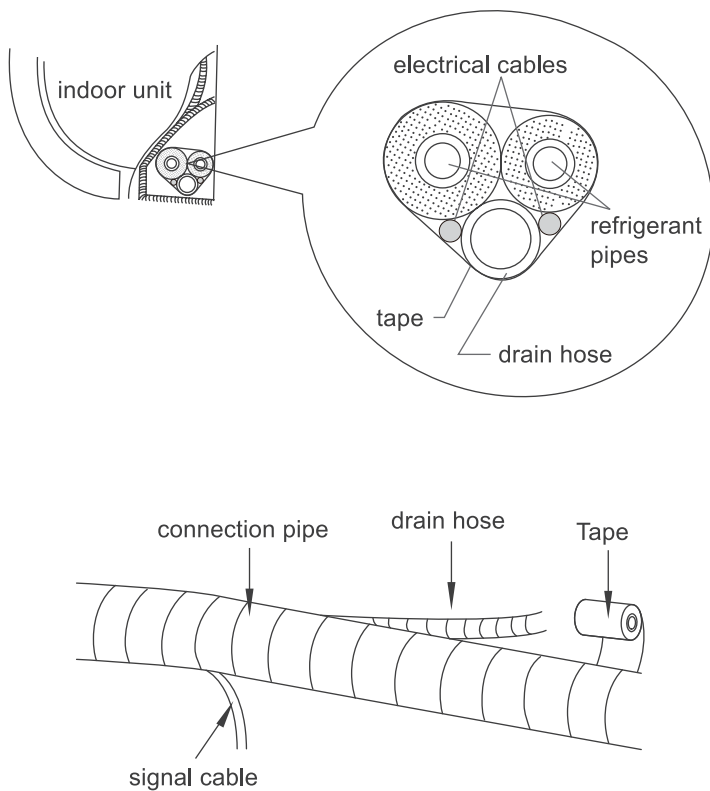
Torque Table

Pipe Diameter	Nut Size	Tightening Torque	
		ft-lbs	N-m
1/4 (6)	1/4 (17)	12 to 14	15 to 20
3/8 (9.5)	3/8 (22)	26 to 29	35 to 40
1/2 (12.7)	1/2 (25)	34 to 36	45 to 50
5/8 (16)	5/8 (29)	45 to 47	60 to 65

- Connect the drain hose to the outlet pipe of the indoor unit and secure the joint with tape. Wrap the joints with the included insulating material to prevent condensation.



- Wrap the refrigerant pipes, electrical cables, and drain hose with tape so it looks like the below figure. Reserve a few inches of drain hose and power cable. When wrapping to a certain length, separate the signal cable and then separate the drain hose.

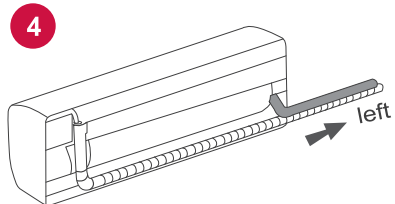
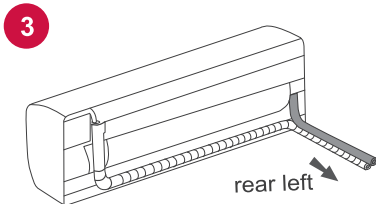
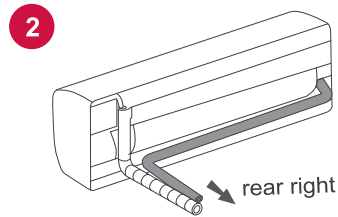
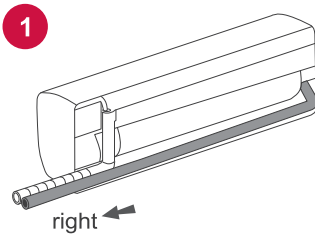


Note: When wrapping the bundle, keep the ends of the piping unwrapped. You need to access them to test for leaks at the end of the installation process.

5. Drilling the Piping Hole on the Wall

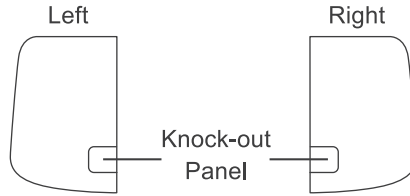
You must drill a hole in the wall for the wrapped bundle of pipes to connect the indoor and outdoor units.

- Choose an appropriate location for the piping hole based on the position of the mounting plate and the direction of the pipe. There are four directions you could choose:
 1. Out of the right side of the indoor unit
 2. Out of the rear right side of the indoor unit
 3. Out of the rear left side of the indoor unit
 4. Out of the left side of the indoor unit

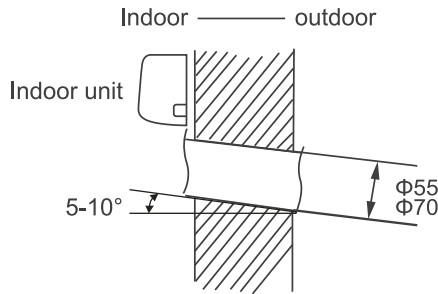


Be extremely careful not to dent or damage the piping while bending them away from the unit. Any dents in the piping will affect the unit's performance.

- If you choose a pipe direction out of the left or right side of the indoor unit, you will need to knock out the corresponding hole on the bottom of the side panel.



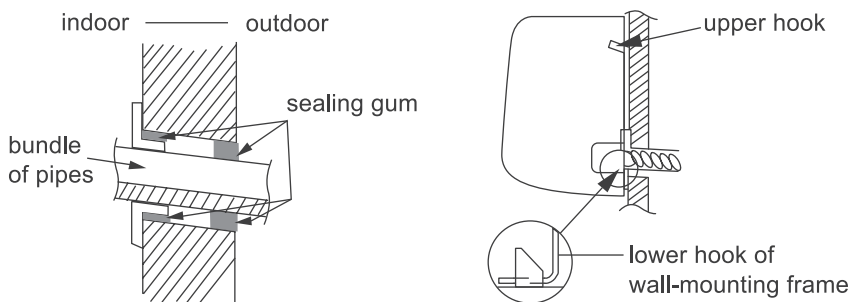
- Drill a hole with a 2.2/2.8inch (55/70mm) diameter through the wall where you want the pipe to go through. To ensure better drainage, slope the hole at a slight 5-10 degree angle downwards. The hole should be drilled lower than the mounting plate, as shown in the example figure below.



- Place the protective wall sleeve in the hole. This protects the edges of the hole and will help seal the hole when you finish installation.

6. Mount the Indoor Unit

- Insert the wrapped bundle of pipes and cables through the hole you just drilled. Use some of the included sealing gum if there are any gaps between the bundle and the wall hole.
- Mount the indoor unit onto the mounting plate.
- Make sure the indoor unit is securely mounted by applying pressure to the left and right sides of the unit.

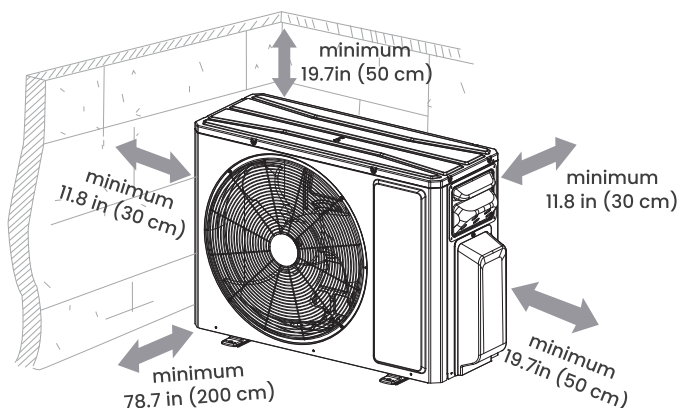


7. Extend the Pipe by Unwinding It

- Extending the pipes should be clung to the wall, bent slowly. The minimum radius of bending the pipe should not exceed 4 in (10 cm).
- If the pipe is repeatedly bent or extended, it will become hard and difficult to manipulate. Avoid bending or extending the pipe for more than 3 times.
- Make sure the pipe connector is protected from dirt and debris when the pipe passes through the wall. Covering the connections with tape could do the trick.

8. Select the Outdoor Unit Installation Site

Refer to the following diagram to ensure proper space around the unit:



Appropriate install locations should follow these standards:

- Open ventilation space around the air conditioner to ensure airflow.
- Location must be convenient to install and not disturb others.
- Protected from prolonged periods of direct sunlight exposure.
- Strong enough to support the weight of the unit.

DO NOT install the unit in the following locations:

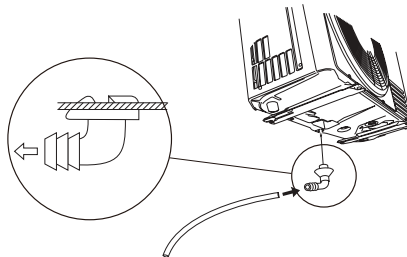
- Near an obstacle that will block air inlets and outlets.
- Near a public street, crowded areas, or where noise from the unit will disturb others.
- Near animals or plants that will be harmed by hot air discharge.
- Near any source of combustible gas or area that is exposed to large amounts of dust.
- Near excessive amounts of salty air.

Note: If the unit is frequently exposed to heavy rain or snow. Build a shelter above the unit to protect it. Be careful not to obstruct airflow around the unit.

9. Install the Drain Joint

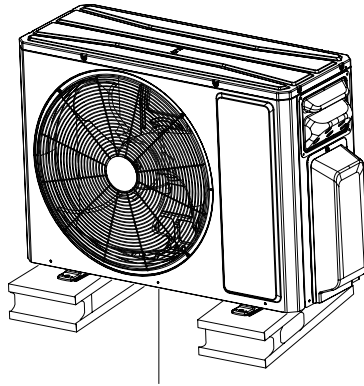
Heat pump units require a drain joint if the unit is elevated off the ground. Before bolting the outdoor unit in place, you must install the drain joint at the bottom of the unit.

- Connect the outdoor drain joint to the hole in the base pan of the unit, as shown in the picture below.
- Connect the drain hose to the drain joint.



10. Secure the Outdoor Unit

Place the outside unit firmly on the ground or attach it to a secure metal wall bracket or pad (not included). Secure the foot holes of the outdoor unit with the bolts.

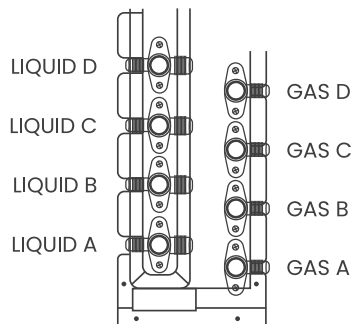


at least 1.2 in (3 cm) above the floor

11. Connect the Refrigerant Pipe of One Indoor Unit and the Outdoor Unit

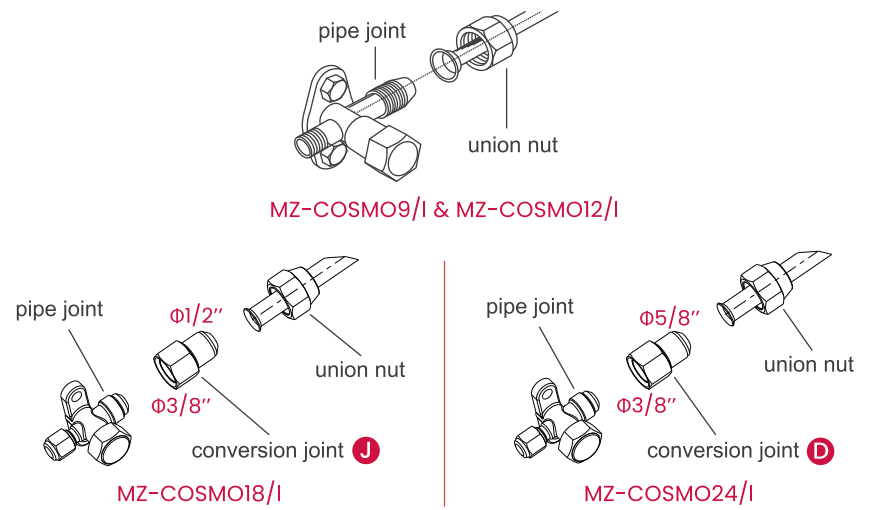
Note: It is recommended to complete the pipe and wiring connection of one indoor unit and then continue to install the second indoor unit.

- Remove the screw cap of the pipe connection valve. The amount of pipe joints depends on the models.



- Align both ends of the refrigerant piping and start to twist on the union nut by hand. All liquid valve sizes are 1/4 inch and all gas valve sizes are 3/8 inch. It is required to use conversion joints when installing with MZ-M18/I and MZ-M24/I indoor units.

Model	MZ-COSMO9/I	MZ-COSMO12/I	MZ-COSMO18/I	MZ-COSMO24/I
Conversion joint	No need	No need	 J	 D



- Use a standard wrench on the pipe joint and an open-end torque wrench on the union nut to apply the proper torque as shown in the torque table below.

Note: Over-tightening may damage connections. Carefully tighten union nuts to correct torque level referring to the Torque Table below.

Torque Table

Pipe Diameter	Nut Size	Tightening Torque	
inch (mm)	inch (mm)	ft-lbs	N-m
1/4 (6)	1/4 (17)	12 to 14	15 to 20
3/8 (9.5)	3/8 (22)	26 to 29	35 to 40
1/2 (12.7)	1/2 (25)	34 to 36	45 to 50
5/8 (16)	5/8 (29)	45 to 47	60 to 65

Note On Pipe Length

The length of refrigerant piping will affect the performance and energy efficiency of the unit. Nominal efficiency is tested on units with a pipe length of 16ft (5m). Refer to the table below for specifications on the maximum length.

Model	Min. Length	Max. Length
MZ-COSMO9/I	10 ft (3 m)	49 ft (15 m)
MZ-COSMO12/I	10 ft (3 m)	65 ft (20 m)
MZ-COSMO18/I, MZ-COSMO24/I	10 ft (3 m)	82 ft (25 m)

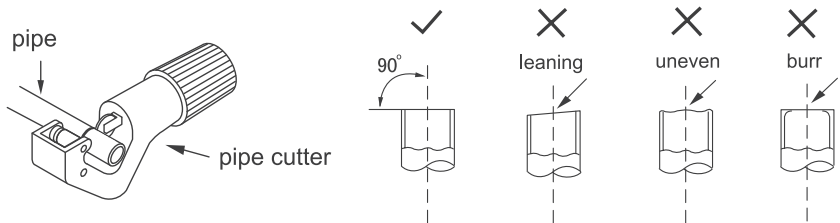
Model	Max. length for all rooms	Max. length for one indoor unit
MZ-COSMO18/O	131 ft (40 m)	66 ft (20 m)
MZ-COSMO24/O	197 ft (60 m)	66 ft (20 m)
MZ-COSMO30/O	262 ft (80 m)	82 ft (25 m)
MZ-COSMO36/O	262 ft (80 m)	82 ft (25 m)

Refrigerant Piping Connection Instructions

Improper pipe shortening or expansion might cause refrigerant leakage. Please take extra care to cut and flare them properly to ensure efficient operation and minimize the need for future maintenance.

a. Cut Pipes

- Measure the distance between the indoor and outdoor units.
- Using a pipe cutter, cut the pipe a little longer than the measured distance.
- Make sure that the pipe is cut at a perfect 90° angle.

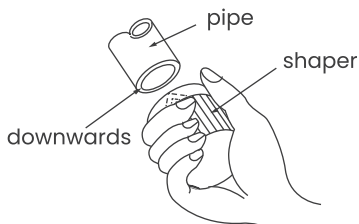


Be extra careful not to damage, dent, or deform the pipe while cutting. This will drastically reduce the heating efficiency of the unit.

b. Remove Burrs

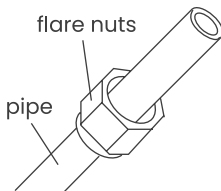
Burrs can affect the air-tight seal of refrigerant piping connection. They must be completely removed.

- Hold the pipe at a downward angle to prevent burrs from falling into the pipe.
- Using a reamer or deburring tool, remove all burrs from the cut section of the pipe.

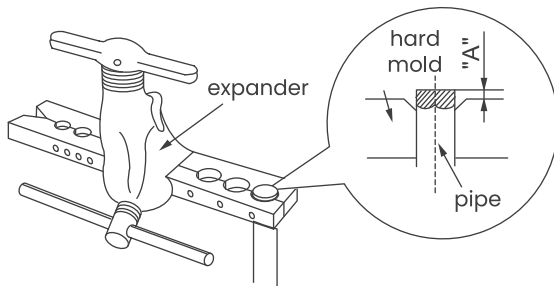


c. Flare Pipe Ends

- After removing burrs from the cut pipe, seal the ends with tape to prevent foreign materials from entering the pipe.
- Sheath the pipe with insulating material.
- Place flare nuts on both ends of the pipe. Make sure they are facing in the right direction, because you can't put them on or change their direction after flaring.



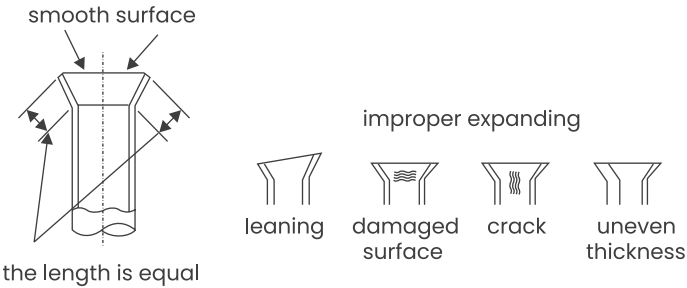
- Remove the tape from the ends of the pipe when ready to perform flaring work.
- Clamp flare form on the end of the pipe. Place the flaring tool onto the form. Turn the handle of the flaring tool clockwise until the pipe is fully flared.



The end of the pipe("A") must extend beyond the edge of the flare form in accordance with the dimensions shown in the table below.

Outer diameter (mm)	A(mm)	
	Max	Min
Φ6 - 6.35(1/4")	1.3	0.7
Φ9 - 9.52(3/8")	1.6	1.0
Φ12-12.7(1/2")	1.8	1.0
Φ15.8-16(5/8")	2.4	2.2

- Remove the flaring tool and flare form, then inspect the end of the pipe for cracks and even flaring. If there is any blemish, do it again according to the steps above.

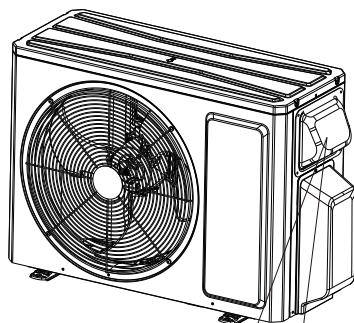


d. Connect Pipes

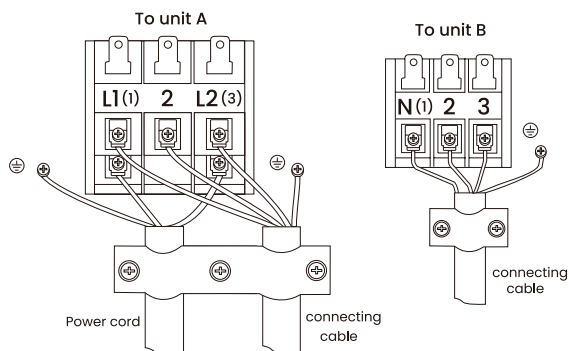
When connecting refrigerant pipes, be careful not to use excessive torque or to deform the piping in any way. You should first connect the low-pressure pipe, then the high-pressure pipe.

12. Connect the Signal and Power Cables

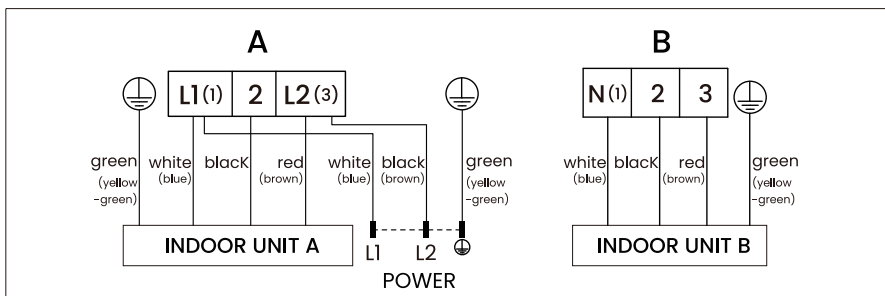
- Remove the wire cover on the outdoor unit. All wiring must be performed in accordance with the wiring diagrams shown below.

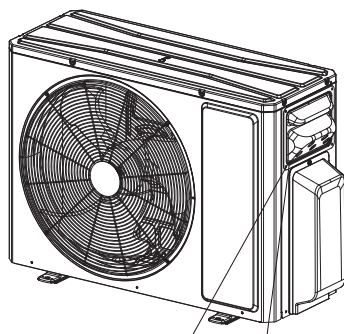


MZ-COSMO18/O

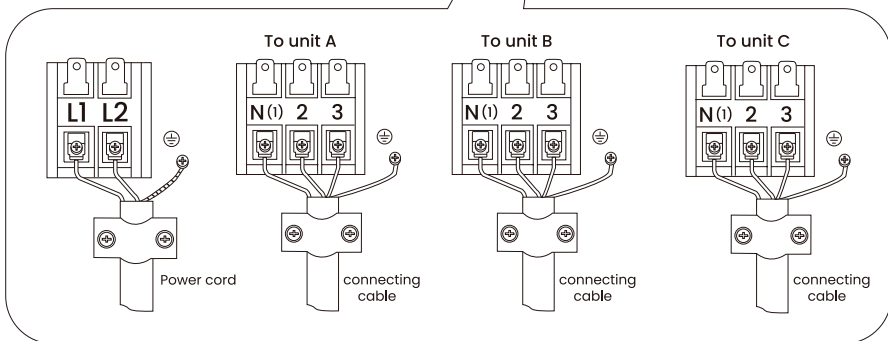


To the power supply

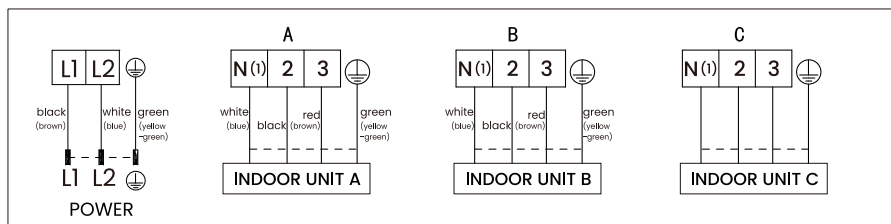


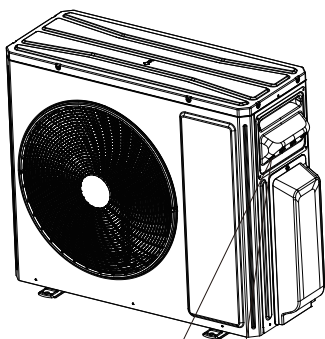


MZ-COSMO24/O

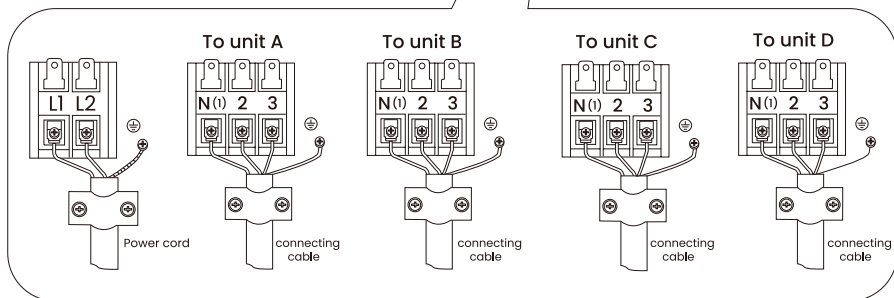


To the power supply

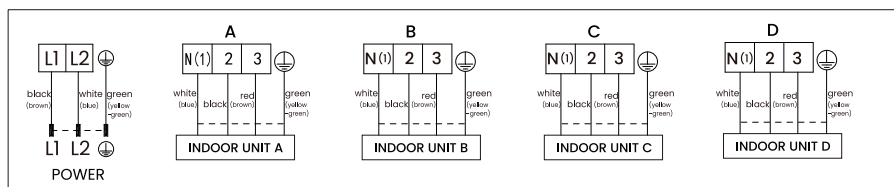




MZ-COSMO30/O
MZ-COSMO36/O



To the power supply



- Match the wire colors with the labels on the terminal block and firmly screw the U-Lug of each wire to its corresponding terminal on the terminal block.
- After checking to make sure every connection is secure, loop wires around the terminals to secure the connection.
- Use a cable clamp to fasten the cable to the unit. Screw the cable clamp down tightly.
- Insulate unused wires with PVC electrical tape. Arrange them so that they do not touch any electrical or metal parts.
- Replace the wire cover on the side of the unit and screw it in place.

Note:

- 1. Make sure the connection is following the instructions. You can make adjustments according to your circuit box at home, if necessary, it is recommended to consult a professional electrician.
- 2. The wire gauge recommended for this product is listed below.

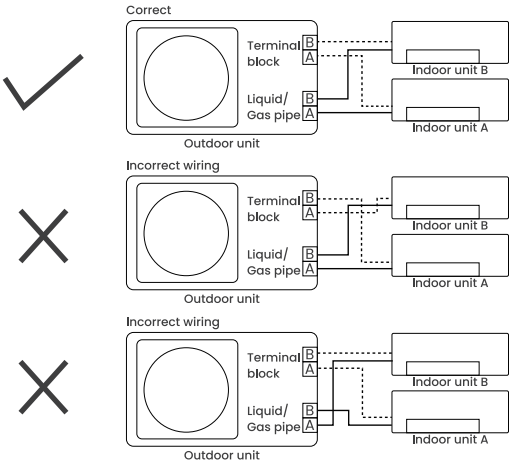
Torque Table

Model	MCA	Recommended Wire Gauge
MZ-COSMO18/O	15A	AWG 14+
MZ-COSMO24/O	19A	AWG 12+
MZ-COSMO30/O	23A	AWG 12+
MZ-COSMO36/O	29A	AWG 10+

Signal Cables

Model	Recommended Wire Gauge
MZ-COSMO9/I	AWG 18
MZ-COSMO12/I	AWG 18
MZ-COSMO18/I	AWG 18
MZ-COSMO24/I	AWG 18

- 3. The connection pipes and the wiring of unit A, and unit B must correspond to each other respectively, check it after connection.



Air Evacuation

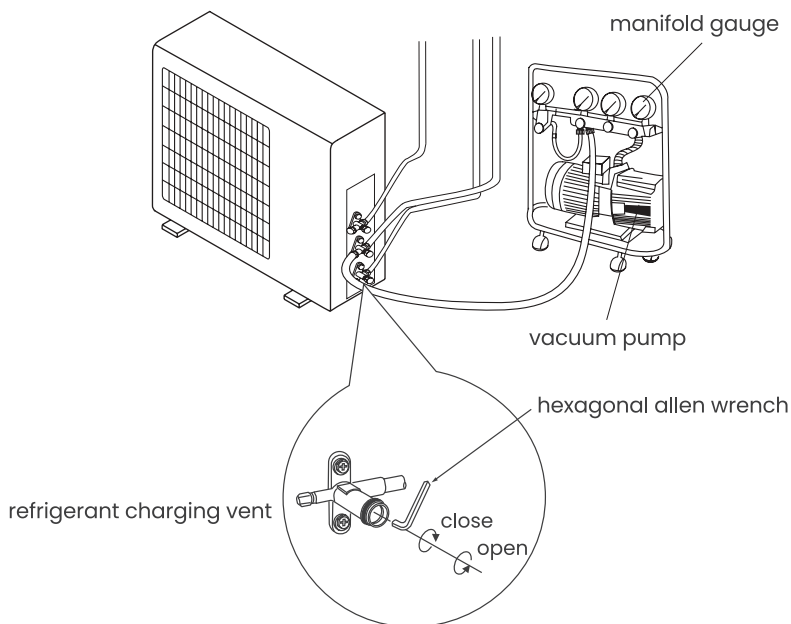
Preparations and Precautions

Air and foreign matter in the refrigerant circuit can cause abnormal rises in pressure, which can damage the air conditioner, reduce its efficiency, and cause injury. Use a vacuum pump and manifold gauge to evacuate the refrigerant circuit, removing any non-condensable gas and moisture from the system.

Evacuation should be performed upon initial installation or when the unit is relocated.

Evacuation Instructions

Note: It is recommended to do an air vacuum for one connecting unit each time before moving on to the next unit.



- Remove the valve caps from the liquid valve and gas valve and remove the nut of the refrigerant charging vent.
- Connect the charging hose of the manifold gauge to the refrigerant charging vent of the gas valve and then connect the other charging hose from the manifold gauge to the vacuum pump.

- Open the manifold gauge completely and operate for 10–15 minutes to check if the pressure of the manifold gauge remains at -0.1MPa .
- Close the vacuum pump and wait for 5 minutes to ensure there has been no change in system pressure. If the pressure decreases there may be leakage, please refer to the Gas Leak Check section.
- Remove the manifold gauge, and tighten the screw caps of the valves and refrigerant charging vent once complete.
- Open the valve core of the liquid valve and gas valve completely by turning anticlockwise with a hexagonal allen wrench.

Gas Leak Checks

There are two different methods to check for gas leaks.

1. Soap and Water Method

Using a soft brush, apply soapy water or liquid detergent to all pipe connection points on the indoor unit and outdoor unit for more than 3 minutes. If bubbles are coming out, there's a leak.

2. Leak Detector Method

If using a leak detector, refer to the device's operation manual for proper usage instructions.

Note: After confirming that all the pipe connection points DO NOT leak, replace the valve cover on the outside unit.

Note on Adding Refrigerant

Depending on the length of the pipes, you may need to add refrigerant. Refer to the table below for refrigerant amounts to be added:

Model	Maximum Pipe Length without Additional Refrigerant	Additional Refrigerant Charging Amount
MZ-COSMO18/O	33 ft (10 m)	0.2 oz/ft (20 g/m)
MZ-COSMO24/O	98 ft (30 m)	
MZ-COSMO30/O	131 ft (40 m)	
MZ-COSMO36/O	131 ft (40 m)	

Note:

- Refrigerant charging must be performed after wiring, air evacuation, and gas leak checks.
- DO NOT exceed the maximum allowable quantity of refrigerant or overcharge the system. Doing so can damage the unit or impact its functionality.
- Charging with unsuitable substances may cause explosions or accidents. Ensure that the appropriate refrigerant is used.

Electrical Safety Checks

After installation, confirm that all electrical wiring is installed in accordance with local and national regulations, and according to the Installation Manual.

1. Check Grounding Work

Measure grounding resistance by visual detection and with a grounding resistance tester. Grounding resistance must be less than 4 ohms. Note: This may not be required for some locations in the US.

2. Check for Electrical Leakage

During the Test Run, use an electroprobe and multimeter to perform a comprehensive electrical leakage test. If electrical leakage is detected, turn off the unit immediately and call a licensed electrician to find and resolve the cause of the leakage.

Note:

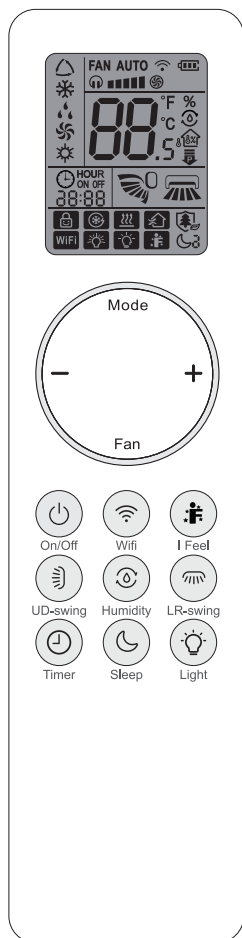
- This may not be required for some locations in the US.
- All wiring must comply with local and national electrical codes and must be installed by a licensed electrician.

Test Run

Only perform a test run after you have completed the following steps

- Electrical Safety Check – Confirm that the unit's electrical system is safe and operating properly.
- Gas Leak Check – Check all flare nut connections and confirm that the system is not leaking.
- Confirm that gas and liquid (high and low pressure) valves are fully open.

Remote Control



Function Icons:

	Quiet	
	Set Fan Speed	
	Turbo Mode	
	Send Signal	
Operation Mode		Auto Mode
		Cool Mode
		Dry Mode
		Fan Mode
		Heat Mode
	X-FAN Function	
	Humidity Control	
	 Indoor Ambient Temp.	
	 Indoor Ambient Humidity	
	Set Temperature	
ON OFF	Timer On / Timer Off	
 28:28	Set Time	
	Left & Right Swing	
	Up & Down Swing	
	Child Lock	
	Fast Cool	
WIFI	WiFi Function	
	LED	
	Auto LED	
	I Feel Function	
	Sleep Mode	
	Two-way Ventilation Function	

Note:

- This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.

- After putting through the power, the air conditioner will give out a sound. Power indicator "⏻" is ON. After that, you can operate the air conditioner by using remote controller.
- Under on status, pressing the button on the remote controller, the signal icon "📶" on the display of remote controller will blink once and the air conditioner will give out a "di" sound, which means the signal has been sent to the air conditioner.
- As for the models with functions of WiFi or wired controller, the indoor unit must have been controlled by standard remote controller under auto mode first, and then the function of adjustable temperature under auto mode can be realized by APP or the wired controller.
- This remote controller can adjust the temperature under auto mode. When matching with the unit which is without the function of adjustable temperature under auto mode, the set temperature under auto mode may be invalid, or the displayed set temperature on the unit is not same as that on the remote controller under auto mode.

Function Icons Description

⏻ On/Off button

Press this button to turn on the unit. Press this button again to turn off the unit.

Mode button

Press this button to select your required operation mode.



- When selecting auto mode, air conditioner will operate automatically according to the sensed temperature. Press "Fan" button can adjust fan speed. Press "🌀" / "🌀" button can adjust fan blowing angle.
- After selecting cool mode, air conditioner will operate under cool mode. Press "+" or "-" button to adjust set temperature. Press "Fan" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Under dry mode, fan speed can't be adjusted. Press "🌀" / "🌀" button to adjust fan blowing angle.

- When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. Press "Fan" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.
- When selecting heat mode, the air conditioner operates under heat mode. Press "+" or "-" button to adjust set temperature. Press "Fan" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.

Note:

- For preventing cold air, after starting up heating mode, indoor unit will delay 1~5 minutes to blow air (actual delay time is depend on indoor ambient temperature).
- Set temperature can be adjusted under AUTO mode.
- Set temperature range from remote controller: 16~30°C (61~86°F).
- This mode indicator is not available for some models.

Fan button

This button is used for setting Fan Speed in the sequence that goes from AUTO, 🌀

■, ■■, ■■■, ■■■■, ■■■■■ to 🌀, then back to Auto.



🔊 Quiet speed ■ Low speed ■■ Low-Medium speed ■■■ Medium speed
 ■■■■ Medium-High speed ■■■■■ High speed 🌀 Turbo speed

Note:

- Under AUTO speed, air conditioner will select proper fan speed automatically according to factory default setting.
- It's low fan speed under dry mode.
- X-FAN function: Holding fan speed button for 2s in cool or dry mode, the icon "🌀" is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in auto, fan or heat mode.

This function indicates that moisture on evaporator of indoor unit will be blown after the unit is stopped to avoid mould.

- Having set X-FAN function on: After turning off the unit by pressing On/ Off button, indoor fan will continue running for a few minutes at low speed. In this period, hold fan speed button for 2s to stop indoor fan directly.
- Having set X-FAN function off: After turning off the unit by pressing On/Off button, the complete unit will be off directly.

+ / - button

Press " + " or " - " button once increase or decrease set temperature 1°C (°F). Holding " + " or " - " button, 2s later, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly.

Wifi button

Press " Wifi " button to turn on WiFi function, " Wifi " icon will be displayed on the remote controller; Hold " Wifi " button for 5s to turn off WiFi function and "Wifi" icon will disappear. (This function is only available for some models.)

Under off status, press "Mode" and "Wifi" buttons simultaneously for 1s, WiFi module will restore factory settings.

Note:

- This function is only available for some models.

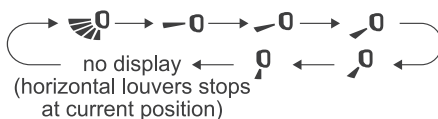
I Feel button

Press this button to start I Feel function and " " will be displayed on the remote controller. After this function is set, the remote controller will send the detected ambient temperature to the controller and the unit will automatically adjust the indoor temperature according to the detected temperature. Press this button again to close I Feel function and " " will disappear.

Please put the remote controller near user when this function is set. Do not put the remote controller near the object of high temperature or low temperature in order to avoid detecting inaccurate ambient temperature. When I Feel function is turned on, the remote controller should be put within the area where indoor unit can receive the signal sent by the remote controller.

 UD-swing button

Press this button can select up & down swing angle. Fan blow angle can be selected circularly as below:



- When selecting "  ", air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.
- When selecting "  ,  ,  ,  ,  ", a ir conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.
- Hold "  " button above 2s to set your required swing angle. When reaching your required angle, release the button.

Note:

- Press this button continuously more than 2s, the main unit will swing back and forth from up to down, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.
- Under swing up and down mode, when the status is switched from off to , if press this button again 2s later,  status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

 Humidity button

Press this button can select up & down swing angle. Fan blow angle can be selected circularly as below:



- When humidity control with cooling mode is set, the remote controller will display "💧", and humidity value "88" and "%" icon will blink for 5s; you can press "+" and "-" buttons to set the humidity value within 5s.

Under humidity control with cooling mode, humidity setting range for the remote controller: 40%-80%. Temperature can be adjusted under humidity control with cooling mode.

- When smart dehumidification with cooling mode is set, the remote controller will display "🌀"; the remote controller and indoor unit will display "Ao" for 5 seconds. Temperature can be adjusted under smart dehumidification with cooling mode.
- The humidity for smart dehumidification is automatically adjusted according to human body comfort; no need to set the humidity manually.

Under dry mode, press this button can select humidity control with dehumidification mode, continuous dehumidification mode, general dehumidification mode, and they can be set to operate circularly.



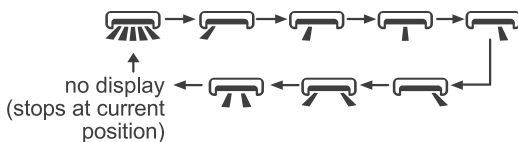
- When humidity control with dehumidification mode is set, the remote controller will display "🌀", "% " and humidity value "88"; you can press "+" and "-" buttons to set the humidity value. Humidity setting range for the remote controller: 30%-70%. Temperature can't be adjusted under humidity control with dehumidification mode.
- When continuous dehumidification is set, the remote controller will display "🌀"; the remote controller and indoor unit will display "Co". Temperature can't be adjusted under continuous dehumidification mode.
- Under continuous dehumidification mode, the unit always works under dehumidification status; no need to set temperature and humidity.

Note:

- The air conditioner is mainly used for controlling the temperature, while the humidity control is the auxiliary function. The humidity will be affected by the factors such as indoor and outdoor environment, degree of indoor sealing and indoor flow.
- When the set humidity is higher than current atmospheric humidity, the set humidity can't be reached.
If the humidity sensor is with malfunction, humidity setting under cooling mode or dehumidification mode will stop and the unit operates under general cooling mode or dehumidification mode.

LR-swing button

Press this button can select left & right swing angle. Fan blow angle can be selected circularly as below:



Note:

- Press this button continuously more than 2s, the main unit will swing back and forth from left to right, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.
- Under swing left and right mode, when the status is switched from off to , if press this button again 2s later,  status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.
- This function only applicable for some models.

Timer button

- At ON status, press this button once can set TIMER OFF. The character of HOUR and OFF will flash. Press "+" or "-" button within 5s can adjust the time of TIMER OFF. After each pressing of "+" or "-" button, time will increase or decrease half an hour. When holding "+" or "-" button, 2s later, the time will change quickly until to reach to your required time. After that, press "Timer" button to confirm it. The character of HOUR and OFF won't flash again.
Cancel TIMER OFF: Press "Timer" button again under TIMER OFF status.
- At OFF status, press this button once can set TIMER ON. Please refer to TIMER off for detailed operation.
Cancel TIMER ON: Press "Timer" button again under TIMER ON status.

Note:

- Time setting range: 0.5-24 hours.
- Time interval between two operations can't exceed 5s. Otherwise, remote controller will exit the setting status automatically.

Sleep button

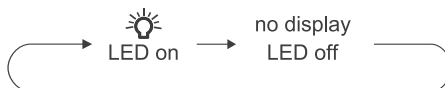
Press this button, can select Sleep 1 () , Sleep 2 () , Sleep 3 () and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted.

- Sleep 1 is Sleep mode 1, in Cool modes: sleep status after run for one hour, the main unit setting temperature will increase 1, two hours, setting temperature increased 2, then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1, two hours, setting temperature will decrease 2, then the unit will run at this setting temperature.
- Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.
- Sleep 3 the sleep curve setting under Sleep mode by DIY;
 - (1) Under Sleep 3 mode, press "I Feel" button for a long time, remote controller enters into user individuation sleep setting status, at this time, the time of remote controller will display "1 HOUR", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);
 - (2) Adjust " + " and " - " button, could change the corresponding setting temperature, after adjusted, press "I Feel" button for confirmation;
 - (3) At this time, 1hour will be automatically increased at the timer position on the remote control, (that is "2HOUR" or "3HOUR" or "8HOUR"), the place of setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink;
 - (4) Repeat the above step (2)~(3) operation, until 8 hours temperature setting finished, sleep,curve setting finished, at this time, the remote controller will resume the original timer display; temperature display will resume to original setting temperature.
- Sleep 3 the sleep curve setting under Sleep mode by DIY could be inquired: The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press " I Feel " button directly for confirmation.

Note: In the above presetting or enquiry procedure, if continuously within 10s, there is no button pressed, the sleep curve setting within 10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press " On/Off " button, "Mode" button, "Timer" button or "Sleep" button, the sleep curve setting or enquiry status will quit similarly.

Light button

Press this button to control the LED status on the display, the circulation change is as follow:



Combination Buttons

Energy-saving function

Under cooling mode, press "Mode" and "Timer" buttons simultaneously to start up or turn off energy-saving function. When energy-saving function is started up, "SE" will be shown on remote controller, and air conditioner will adjust the set temperature automatically according to ex-factory setting to reach to the best energy-saving effect.

Press "Mode" and "Timer" buttons simultaneously again to exit energy-saving function.

Note:

- Under energy-saving function, fan speed is defaulted at auto speed and it can't be adjusted.
- Under energy-saving function, set temperature can't be adjusted.
- Sleep function and energy-saving function can't operate at the same time. If energy-saving function has been set under cool mode, press "Sleep" button will cancel energy-saving function. If sleep function has been set under cool mode, start up the energy-saving function will cancel sleep function.

Child lock function

Hold "On/Off" and "-" buttons simultaneously for 3s to turn on or turn off child lock function. When child lock function is on, "🔒" icon is displayed on remote controller. If you operate the remote controller, the "🔒" icon will blink three times without sending signal to the unit.

Temperature display switchover function

Under OFF status, hold "Mode" and "-" buttons simultaneously for 3s to switch temperature display between °C and °F.

Indoor ambient temperature or humidity display

By holding "On/Off" and "⏮" buttons simultaneously, you can see indoor ambient temperature or indoor ambient humidity on indoor unit's display. The setting on remote controller is selected circularly as below:



- When selecting "🏠" with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.
- When selecting "🏠%" with remote controller, temperature indicator on indoor unit displays indoor ambient humidity.

Note:

- The ambient humidity value is only for reference. Eg:
If humidity value is "0%", there may be malfunction for the humidity detection board. Please contact local service provider.
- There may be some measuring deviation for humidity detection and photosensitiveness detection.

Clean reminder function of filter

The reminder function is defaulted to be OFF. Hold "On/Off" and "⏮" buttons simultaneously for 5s to turn it on. The buzzer will give out sound for 0.5s and the dual-8 nixie tube on the display will be on for 3s; Once the reminder function is turned on, when the air conditioner has reached to the set time, the dual-8 nixie tube will flash about 30s when the unit is turned on each time to remind the user to clean the filter; you can turn off this cycle reminder by holding "On/Off" and "⏮" buttons simultaneously for 5s and then the air conditioner will count time again.

Note:

- Once the reminder function is turned on, only this cycle reminder can be cleared.
- This function is only available for some models.

Fast cool function

Press "On/Off" and "+" buttons simultaneously under cooling mode can select 25°C (77°F) fast cooling mode, 16°C (61°F) fast cooling mode and normal cooling mode circularly. "❄️" icon will be displayed on the remote controller under fast cooling mode.

Once it enters into fast cooling mode, the fan speed is auto fan and the set temperature is 25°C (77°F) or 16°C (61°F). At this time, the set temperature flashes to display for 5s. In the flashing period, press "+" or "-" button to adjust the set temperature.

Press "Fan" button to adjust the fan speed. If the set temperature and the fan speed haven't been adjusted during that time, the remote controller and the indoor unit will operate under current set temperature and fan speed for 20 minutes. 20 minutes later, the set temperature and the fan speed for the remote controller and the indoor unit will turn to the status before quick cooling.

Note:

- If the set temperature and the fan speed have been adjusted during the operation under fast cooling mode, the unit will exit from the fast cooling mode.
- Then the indoor unit operates continuously under the adjusted status. Fast cooling function is only applicable for some models. If this function is unavailable for this indoor unit, 20 minutes later, the remote controller will turn back to the status before fast cooling. Indoor unit operates continuously according to current status. At this time, status of indoor unit and the display status on the remote controller may be different.
- This function is only available for some models.

Auto clean function

Under unit off status, hold "Mode" and "🌀" buttons simultaneously for 5s to turn on or turn off the auto clean function. When the auto clean function is turned on, indoor unit displays "CL". During the auto clean process of evaporator, the unit will perform fast cooling or fast heating. There may be some noise, which is the sound of flowing liquid or thermal expansion or cold shrinkage. The air conditioner may blow cool or warm air, which is a normal phenomenon. During cleaning process, please make sure the room is well ventilated to avoid affecting the comfort.

Note:

- The auto clean function can only work under normal ambient temperature. If the room is dusty, clean it once a month; if not, clean it once every three months. After the auto clean function is turned on, you can leave the room. When auto clean is finished, the air conditioner will enter standby status.
- This function is only available for some models.

Night mode

Under cooling or heating mode, when turning on sleep mode and turn to low speed or quiet notch, the outdoor unit would enter into night mode.

Note

- When you feel that the cooling and heating effect is poor, please press "Fan" button to other fan speed or press "Sleep" button to exit the night mode.
- The night mode can only work under normal ambient temperature.
- This function is only available for some models.

App Control

Supported Equipment

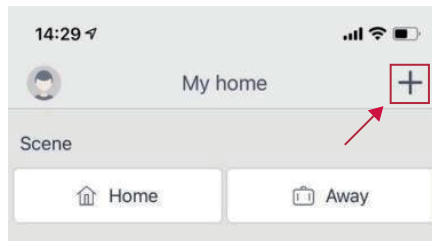
Smart Phone System	Wireless Routers
 iOS 7.0 & above version	 must work with operating frequency: 2.4GHz
 Android 4.4 & above version	

Installation and Setup

1. Scan the QR code or search for "GREE+" or "TOSOT+" in the App Store or Google Play Store.

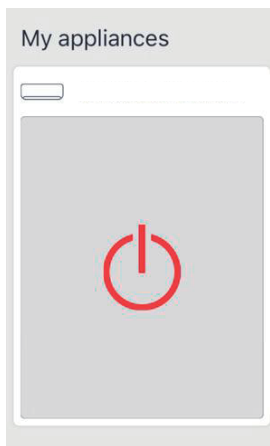


2. Open the "GREE+" or "TOSOT+" App after installation. You can create a new account or log in with an existing account.
3. Add a device by tapping the "+" button as shown in the picture. The app will automatically start searching for devices. Press the "WiFi" button on the remote control to turn on the WiFi function.



* Please make sure the "wifi" indicator is light on in the remote control.

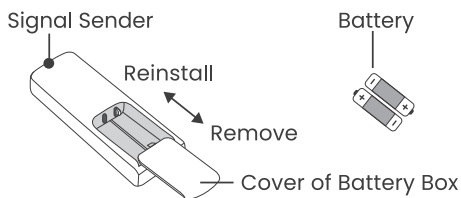
4. Tap the available device icon and select your Wi-Fi network. Enter your Wi-Fi password, then tap the "Next" button.
5. Once the device is added successfully, you will return back to the "My home" page. Select your appliance to start app control.



**If you have problems,
please refer to "Help" in the app or contact our support team.**

Replacing the Batteries

- Press the back side of the remote control battery cover and slide out following the engraved arrow.
- Replace with two new AAA(1.5V) batteries of the same make and model. Make sure the polarities (+ & -) are aligned correctly.
- Reinstall the battery cover box.



Notice

- During operation, point the remote control signal sender at the receiving window on the indoor unit.
- The distance between the signal sender and the receiving window should be no more than 26ft/8m, and there should be no obstacles between them.
- The signal may be easily interfered with in a room where there is a fluorescent lamp or a wireless telephone; the remote controller should be close to the indoor unit during operation.
- Replace the batteries with new ones of the same model when replacement is required.
- When you don't use the remote controller for a long time, please take out the batteries.
- If the display on the remote controller is fuzzy or there's no display, please replace the batteries.

Care and Maintenance

Precautions

- **Disconnect from** power before cleaning and servicing. Failure to do so may cause electric shock.
- **Do not** wash the air conditioner with water as this may cause electric shock.
- **Do not** use volatile liquids (such as paint thinner or gas) to clean the air conditioner. This may damage the appearance of the air conditioner or cause parts to deteriorate.
- **Do not** use liquid or corrosive detergent to clean the appliance and do not splash water or other liquid onto it as this may damage plastic components or cause electric shock.

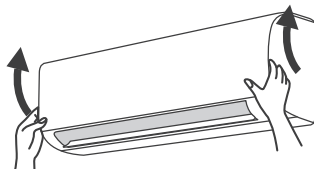
Cleaning the Indoor Unit

If there's dust on the surface of the outer case please use a soft cloth to wipe it clean. You might need to use mild detergent for cleaning.

Cleaning the Reusable Filter

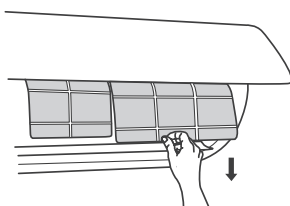
1. Open panel

Pull out the panel to a certain angle as shown in the figure.



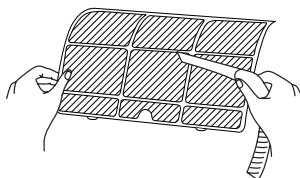
2. Remove filter

Remove the filter as indicated in the figure.



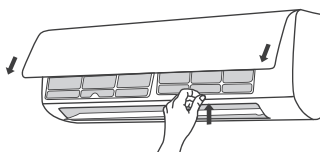
3. Clean filter

- Use a dust catcher or water to clean the filter.
- When the filter is very dirty, use water (below 113°F) to clean it, and then put it in a shady and cool place to dry.



4. Install filter

Install the filter and then close the panel tightly.



Note:

- Clean the filter at least once per month.
- Do not touch the metal fins in the air conditioner after removing the filter as they may cause injury.
- Do not attempt to dry the filter with a hairdryer or other heating elements as this may deform or ignite the filter.
- Do not operate the air conditioner if the air filter is missing.

Offseason Maintenance

If you are going to put the unit into long-term storage, please do the following:

1. Disconnect from power supply.
2. Clean filter and outer case.
3. Remove dust and debris on the air conditioner.
4. Turn on the FAN mode for at least 8 hours to dry the indoor unit out completely.

Preseason Maintenance

If you are going to use the unit again after a long period of non-use, please do the following:

1. Check whether air inlets and air outlets are blocked.
2. Check whether plug and socket are in good condition.
3. Check whether the filter is clean.
4. Check whether batteries are installed in the remote control.
5. Check whether the unit is leaking any refrigerant or water.

Troubleshooting

You may meet some common issues listed below. We recommend you do a self check first, but if the problem is not resolved, please contact customer support at support@tosotdirect.com.

Issues	Self check	Solutions
No air emitted from the indoor unit	Is the air inlet or outlet of the indoor unit blocked?	Remove the obstacles.
	If using the heating and cooling mode, has the indoor temperature reached the set temperature?	Once the ambient indoor temperature reaches the set temperature, the indoor unit will stop blowing out air.
	Did you just turn the heating mode on?	After starting the heat mode, the indoor unit will delay 1-5 minutes before blowing air.
Air conditioner will not operate	Power failure?	Wait after power recovery.
	Is the plug loose?	Reinsert the plug.
	Circuit breaker trips or fuse blown?	Contact customer support or qualified professionals.
	Did you just restart the unit after powering it off?	The unit is experiencing the 3-Minute Compressor Protection to help extend the lifespan of your unit. Wait for 3min, and then turn on the unit again.
	Are batteries in there mote control exhausted?	Replace with two new AAA(1.5V) batteries.
	Are batteries in the remote control installed properly?	Make sure the polarities (+ & -) are aligned correctly.

Issues	Self check	Solutions
White mist emitted from indoor unit	Are the indoor temperature or humidity levels high?	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist. After a while, indoor temperature and humidity will decrease and the mist will disappear.
Strange odours emitted	Check whether there's odour source such as new furniture or smoking, etc.	Remove the odour source and clean the reusable filter.
Set temperature can't be adjusted	Unit is running under auto mode?	Temperature can't be adjusted under auto mode.
	Your desired temperature exceeds the set temperature range?	Temperature setting range: 61°F (16°C) - 86°F (30°C).
Poor cooling or heating performance	Is the air filter dirty?	Clean the air filter.
	Are the temperature and mode settings proper?	Adjust the temperature setting and mode.
	Is direct or strong sunlight shining into the room during cooling?	Close windows and curtains during periods of high heat or bright sunshine.
	Are doors and windows open to the room?	Make sure all doors and windows are closed.
Operation is unstable and abnormal	Check if there's interference such as cell phone towers, thunder, wireless devices, etc.	Disconnect power, wait 30 seconds and restart, then turn on the unit again.
Abnormal noises	Air conditioner was just turned on or turned off?	Low hissing sound when the system starts, has just stopped running, or is defrosting. This noise is normal and is caused by the refrigerant gas stopping or changing direction.

Issues	Self check	Solutions
Abnormal noises	Air conditioner was just turned on or turned off or adjusted temperature?	Cracking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation.

- If you notice or experience any of the following conditions, please turn off the air conditioner, disconnect from power, discontinue use, and contact support immediately.
 - The power cord is overheating or otherwise damaged
 - Abnormal sound during operation
 - A strange odor is emitted from the unit
 - Excessive water leakage the unit
- Do not attempt to repair or retrofit the air conditioner by yourself. All repairs must be performed by qualified individuals.

Malfunction Codes

Error Code	Malfunction Name
F0	Refrigerant leakage protection
F1, F2, F3, F4, F5	Temperature sensor malfunction
Fo	Refrigerant recycling mode
E1	High-pressure protection
E3	Low-pressure protection
E4, H3	Compressor overload protection
E5	Overcurrent protection
E6	Communication malfunction
E7	Mode conflict
E8	Overload protection
EE	Malfunction of memory chip

Error Code	Malfunction Name
P5	Compressor phase current protection
P7	Modular temperature sensor
P8	Module high-temperature protection
PH	DC bus-bar high voltage protection
PL	DC bus-bar low voltage protection
PU	Charging malfunction of capacitor
U1	Malfunction of phase current detection circuit for compressor
U3	Malfunction of voltage dropping for DC bus-bar
U5	Malfunction of current detection
U7	The four-way valve is abnormal
U8	Zero cross-detection circuit malfunction
C5	Malfunction protection of jumper cap
H1	Defrosting or oil return in heating mode
H5	IPM protection
H6	Feedback of without IDU motor
H7	Compressor desynchronizing
HC	PFC protection
HE	Compressor demagnetization protection
L3	Malfunction protection of outdoor fan 1
LP	Indoor unit and outdoor unit do not match
Lc	Start failure of the compressor
Ld	Compressor phase-lacking/phase-inverse protection
AL	X-fan
b5	Liquid valve temperature sensor malfunction
b7	Gas valve temperature sensor malfunction
dn	Wrong connection of communication wire or malfunction of electronic expansion valve
dd	Detection status of the wrong connection of communication wire or malfunction of the electronic expansion valve

Warranty & Customer Support

Warranty Information

1. 5-Year warranty:

TOSOT Split-type Air Conditioner comes with a 5-year warranty from the date of purchase.

This warranty covers manufacturing and material defects. Please visit <https://tosotdirect.com/warranty> for more details.

2. Additional 6-Month warranty extension:

You can get a 6-month warranty extension by registering your new product at www.tosotdirect.com/extend

Customer Support

Questions? We are here to help

✉ support@tosotdirect.com

🌐 www.tosotdirect.com



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