Installer's Manual

Split System (R-410A)

Multi Split Inverter System

18,000 Btu/h to 42,000 Btu/h

Model :

4TXM6518A1

4TXM6524A1

4TXM6530A1

4TXM6536A1

4TXM6542A1

September 2013

MS-SVN-25A-EN

CONFORMS TO
UL STD. 1995
CERTIFIED TO
CSA STD. C22.2
NO. 236

Intertek
3097844

Ingersoll Rand

Literature Order Number MS-SVN-25A-EN
Date September 2013
Supersedes May 2013

The manufacturer has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. Only qualified technicians should perform the installation and servicing of equipment referred to in this manual.

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Warnings and Cautions

Warnings and Cautions. Notice that warnings and cautions appear at appropriate intervals throughout this manual. Warnings are provided to alert installing contractors to potential hazards that could result in personal injury or death, while cautions are designed to alert personnel to conditions that could result in equipment damage.

Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

Attention: Warnings and Cautions appear at appropriate sections throughout this literature. Read these carefully.

⚠**WARNING**: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠**CAUTION**: Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE: Indicates a situation that could result in equipment or property-damage only accidents.

⚠WARNING

This equipment is to be serviced by professionally trained personnel ONLY. Under NO circumstances should an unqualified person service it. This equipment contains refrigerant under PRESSURE and operates at HIGH VOLTAGE. Improperly installed, adjusted or altered equipment by an unqualified person poses safety hazards including FIRE, ELECTROCUTION, or EXPLOSION, which could result in death or serious injury.

⚠WARNING

Electrocution and Fire Hazards with Improperly Installed and Grounded Field Wiring!

Improperly installed and grounded field wiring poses FIRE & ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in the National Electrical Codes (NEC) and your local/state electrical codes. All field wiring MUST be performed by qualified personnel.
Failure to follow these requirements could result in death or serious injury.

In line with the company's policy of continual product improvement, the aesthetic and dimensional characteristics, technical data and accessories of this appliance may be changed without notice.

CONTENTS

Drawings in this manual are for reference only.
Illustrations may vary from the actual model purchased.

CONFORMITY AND RANGE

The air conditioner you have purchased is in conformity with the following American Directives UL1995:

⚠ Warning or Caution

Please read this owner's manual carefully before operating the unit and keep it in a safe place for future reference.

⚠ Warning or Caution

Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.

WARNING

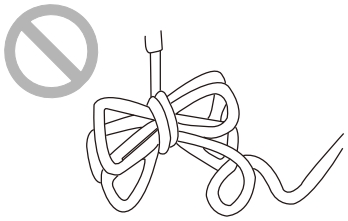
★ If you experience a burning smell or smoke, turn off the power supply and contact your servicing dealer.

If the abnormity still exists, the unit may be damaged, and may cause electric shock or fire.

★ Install a separate disconnect at the outdoor unit. The power supply, wiring and grounding of equipment must comply with National, State and/or Local Codes. The power supply must agree with the equipment nameplate. Avoid rapid cycling of the power supply during normal use.

★ Never cut off or damage power cables and control wires. If the power cable and signal control wire were damaged, change them by professional.

★ Only connect to a power supply that is approved for this application.



Otherwise, it can cause electric shock or fire.

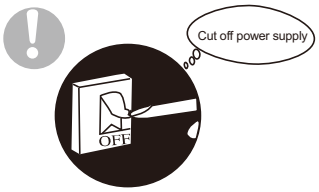
★ If you do not plan to use this air conditioner for an extended period of time, disconnect the power supply.

Otherwise, the accumulated dusts may cause overheating or fire.

★ Never damage the electric wire or wire that is not approved for this application.

Otherwise, it will cause overheating or fire.

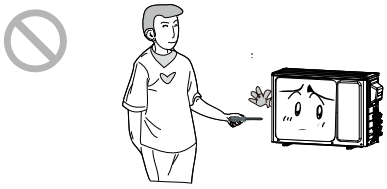
★ Before attempting to clean the unit be sure to disconnect all power.



Otherwise, it may cause electric shock or damage.

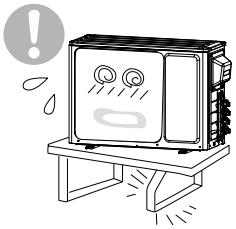
★ Rated voltage of this air conditioner 208-230V,60Hz, The compressor will vibrate sharply if the voltage is too low, resulting in damage to refrigerating system.
If voltage is too high, electrical components can be damaged.

★ Don't attempt to repair the air conditioner by yourself.



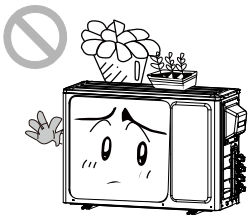
The wrong repair will lead to an electric shock or fire, so you should contact the service center to repair.

★ Please note whether the installed stand is firm enough or not.



Inadequate support could lead to product damage or personal injury.

★ Don't step on the top of the outdoor unit or place something on it.



As falling off the outdoor unit can be dangerous.

★ Grounding: The unit must be reliably grounded. The grounding cable shall be connected to the special grounding device in the construction.

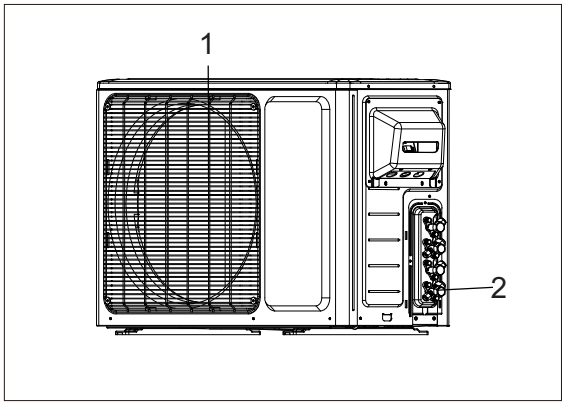
4TXM6518A1020BA

Warning

- Be sure to cut off the power supply before cleaning the air conditioner; otherwise electric shock might happen.
- Wetting of air conditioner may cause the risk of electric shock. Make sure not to wash your air conditioner in any case.
- Volatile liquids such as thinner or gasoline will cause damage to the appearance of air conditioner. (Use only a soft dry or moist cloth to clean the air conditioner cabinet.).
- This product must not be disposed together with the domestic waste. This product has to be disposed at an authorized place for recycling of electrical and electronic appliances.
- The temperature of refrigerant circuit will be high,please keep the interconnection cable away from the copper tube.

OUTDOOR UNIT	
No.	Description
1	Air outlet grille
2	Valve

Notice: All illustrations are intended for general reference and may not correspond to the appearance of the units purchased.

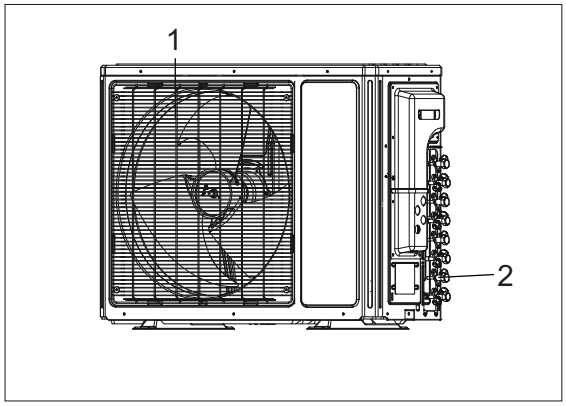


4TXM6524A1030BA,4TXM6530A1040BA, 4TXM6536A1040BA, 4TXM6542A1050BA

Warning

- If the supply cable is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- Be sure to cut off the power supply before cleaning the air conditioner; otherwise electric shock might happen.
- Wetting of air conditioner may cause the risk of electric shock. Make sure not to wash your air conditioner in any case.
- Volatile liquids such as thinner or gasoline will cause damage to the appearance of air conditioner. (Use only a soft dry or moist cloth to clean the air conditioner cabinet).
- Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- The temperature of refrigerant circuit will be high,please keep the interconnection cable away from the copper tube.

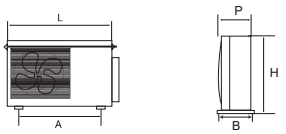
OUTDOOR UNIT	
No.	Description
1	Air outlet grille
2	Valve



Note: the above figures are only intended to be a simple diagram of the appliance and may not correspond to the appearance of the units that have been purchased.

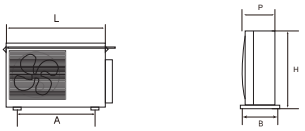
TECHNICAL DATA

GENERAL INFORMATION

MODE	4TXM6518A1020BA	
Electricity supply	208/230V/1~60Hz	
Fuse or air switch	20	
Minimum power cable section	12 AWG	
Refrigerant gas(R410A)	48	oz
		
L	32.2	in
P	15.0	in
H	23.5	in
A	21.7	in
B	14.0	in

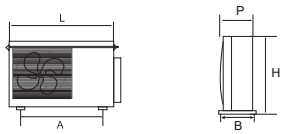
TECHNICAL DATA

GENERAL INFORMATION

MODE	4TXM6524A1030BA	4TXM6530A1040BA	
Electrical data			
Electricity supply	208/230V/1~60Hz		
Fuse or air switch	30	45	
Minimum power cable section	10 AWG	10 AWG	
Refrigerant gas(R410A)	77.6	77.6	oz
Size and clearance			
			
L	35.0		in
P	14.3		in
H	27.6		in
A	22.0		in
B	14.5		in

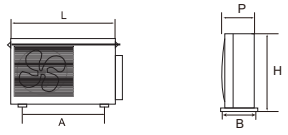
TECHNICAL DATA

GENERAL INFORMATION

MODE	4TXM6536A1040BA	
Electricity supply	208/230V/1~60Hz	
Fuse or air switch	45	
Minimum power cable section	10 AWG	
Refrigerant gas(R410A)	102.30	oz
		
L	36.0	in
P	15.0	in
H	30.9	in
A	24.0	in
B	16.8	in

TECHNICAL DATA

GENERAL INFORMATION

MODE	4TXM6542A1050BA	
Electricity supply	208/230V/1~60Hz	
Fuse or air switch	40	
Minimum power cable section	10 AWG	
Refrigerant gas(R410A)	169.30	oz
		
L	40.0	in
P	15.0	in
H	43.5	in
A	24.8	in
B	17.0	in

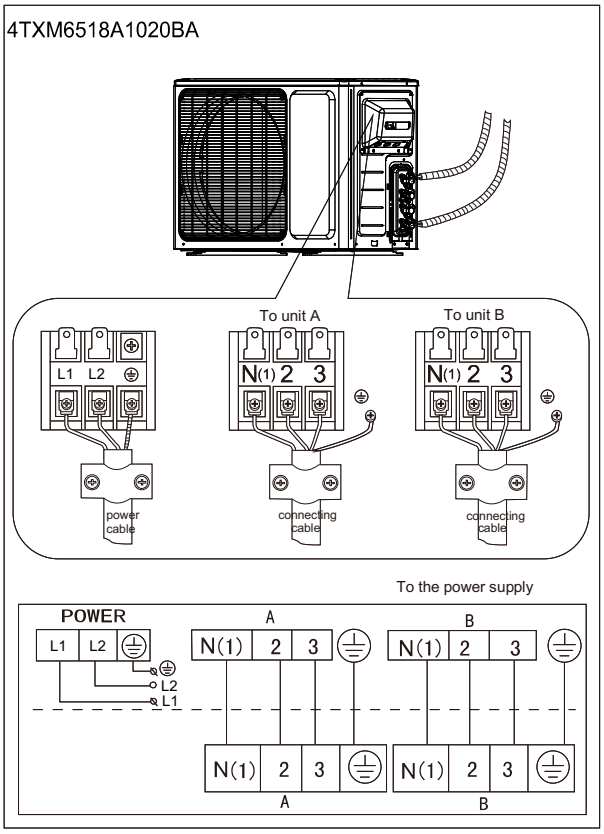
OUTDOOR UNIT WORKING TEMPERATURE RANGE

GENERAL INFORMATION

	OutdoorsideDB(°F)
Maximum cooling	110
Minimum cooling	0
Maximum heating	75
Minimum heating	5

4TXM6518A1020BA

1. Remove the handle at the right side plate of the outdoor unit (six screw).
2. Remove the cable clamp, connect the connection cable and power cable with the terminal at the row of connection and tighten the connection. The fitting line distributing must be consistent with the indoor unit terminal of line bank.
   Wiring should meet that of indoor unit.
3. Fix power connection wire by wire clamp.
4. Ensure wire connections are tight and secure.
5. Install the handle.



⚠ Warning and Caution

1. Be sure the electrical supply is connected to a equipment disconnect device approved for this application.
2. Wrong wire connection may cause malfunction of some electric components.After fixing cable, ensure that leads between connection to fixed point have some space.
3. The connection pipes and the connectiong wirings of the unit A and unit B must be corresponding to each other respective.
4. The appliance shall be installed in accordance with national wiring regulations.

Note: the above figures are only intended to be a simple diagram of the appliance and may not correspond to the appearance of the units that have been purchased.

All power cables and connection cables must be protected with conduits.

4TXM6524A1030BA

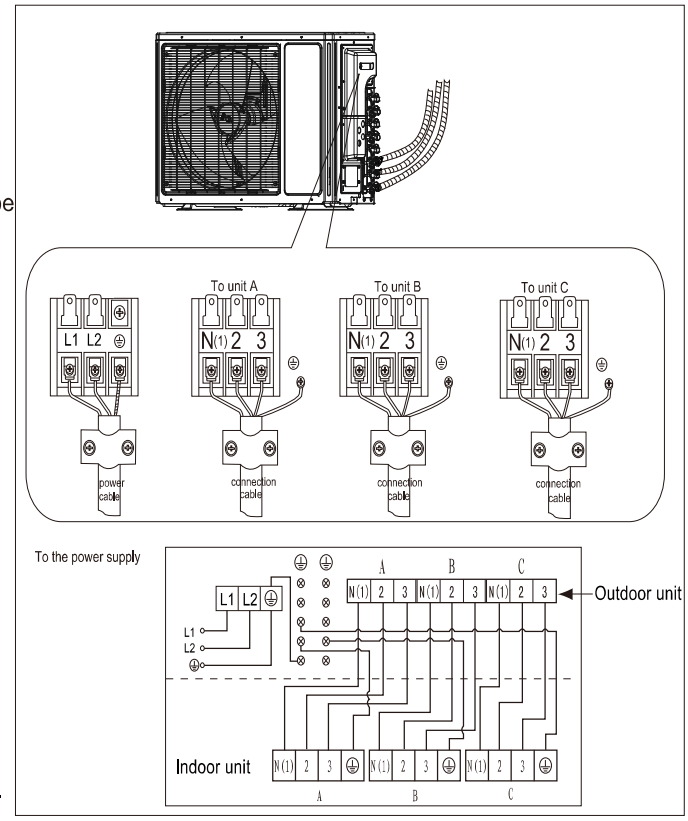
1. Remove the handle at the right side plate of the outdoor unit (ten screw).

2. Remove the cable clamp, connect the connection cable and power cable with the terminal at the row of connection and tighten the connection. The fitting line distributing must be consistent with the indoor unit terminal of line bank. Wiring should meet that of indoor unit.

3. Fix power connection wire by wire clamp.

4. Ensure wire connections are tight and secure.

5. Install the handle.



⚠ Warning and Caution

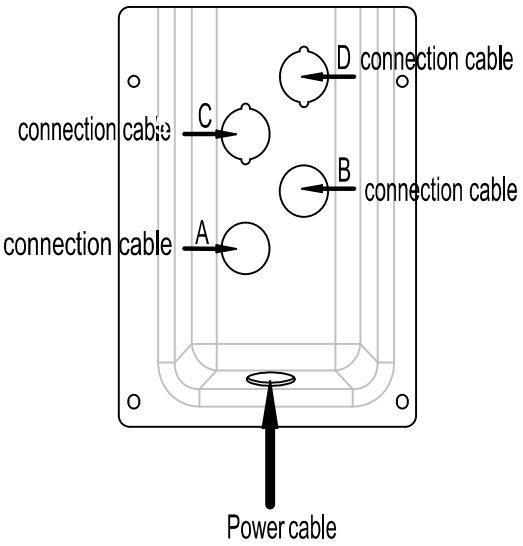
1. Be sure the electrical supply is connected to a equipment disconnect device approved for this application.

2. Wrong wire connection may cause malfunction of some electric components.After tighten cable, ensure that leads between connection to fixed point have some space.

3. The connection pipes and the connectiong wirings of the unit A ,unit B and unit C must be corresponding to each other respective.

4. The appliance shall be installed in accordance with national wiring regulations.

Note: the above figures are only intended to be a simple diagram of the appliance and may not correspond to the appearance of the units that have been purchased.



1) The power cable should be put in from the hole under connection cable cover.
2) If connecting with two indoor units, the connection cable should be put in from hole A and hole B.
3) If connecting with three indoor units, the connection cable should be put in from hole A , B and C.
4) If connecting with four indoor units, the connection cable should be put in from hole A, B , C and D.

All power cables and connection cables must be protected with conduits.

4TXM6530A1040BA 4TXM6536A1040BA

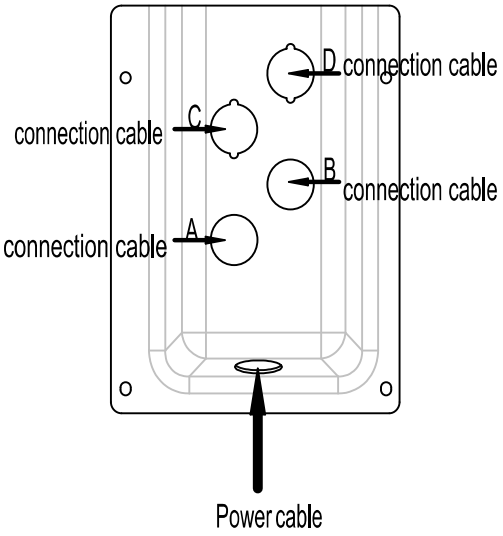
1. Remove the handle at the right side plate of the outdoor unit (ten screw).

2. Remove the cable clamp, connect the connection cable and power cable with the terminal at the row of connection and tighten the connection. The fitting line distributing must be consistent with the indoor unit terminal of line bank. Wiring should meet that of indoor unit.

3. Fix power connection wire by wire clamp.

4. Ensure wire connections are tight and secure.

5. Install the handle.



⚠ Warning and Caution

1. Be sure the electrical supply is connected to a equipment disconnect device approved for this application.

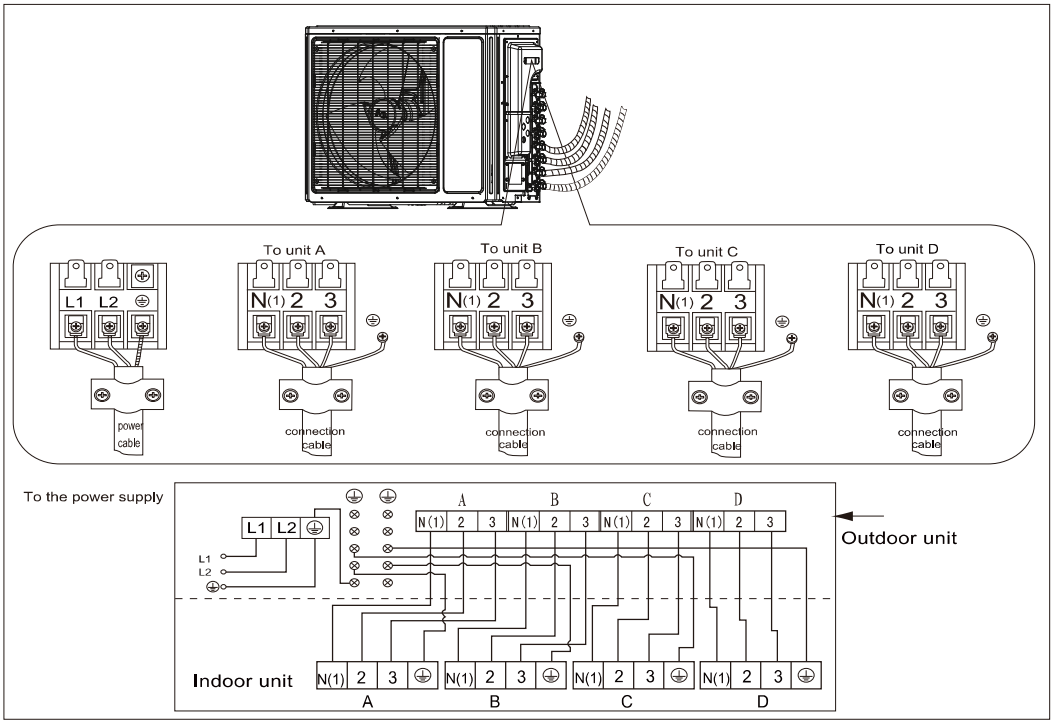
2. Wrong wire connection may cause malfunction of some electric components.After fixing cable, ensure that leads between connection to fixed point have some space.

3. The connection pipes and the connectiong wirings of the unit A ,unit B,unit C and unit D must be corresponding to each other respective.

4. The appliance shall be installed in accordance with national wiring regulations.

1) The power cable should be put in from the hole under connection cable cover.
2) If connecting with two indoor units, the connection cable should be put in from hole A and hole B
3) If connecting with three indoor units, the connection cable should be put in from hole A , B and C
4) If connecting with four indoor units, the connection cable should be put in from hole A, B , C and D.

All power cables and connection cables must be protected with conduits.



⚠ Warning and Caution

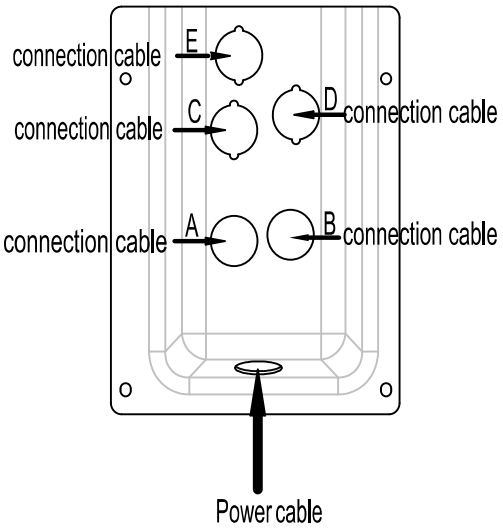
After having removed the packaging, check that the contents are intact and complete.

The outdoor unit must always be kept upright.

Handling must be done by suitably equipped qualified technical personnel using equipment that is for suitable the weight of the appliance .

4TXM6542A1050BA

1. Remove the handle at the right side plate of the outdoor unit (ten screw).
2. Remove the cable clamp, connect the connection cable and power cable with the terminal at the row of connection and tighten the connection. The fitting line distributing must be consistent with the indoor unit terminal of line bank. Wiring should meet that of indoor unit.
3. Fix power connection wire by wire clamp.
4. Ensure wire connections are tight and secure.
5. Install the handle.



⚠ Warning and Caution

1. Be sure the electrical supply is connected to a equipment disconnect device approved for this application.
2. Wrong wire connection may cause malfunction of some electric components.After fixing cable, ensure that leads between connection to fixed point have some space.
3. The connection pipes and the connectiong wirings of the unit A ,unit B,unit C and unit D must be corresponding to each other respective.
4. The appliance shall be installed in accordance with national wiring regulations.

d

1) The power cable should be put in from the hole under connection cable cover.
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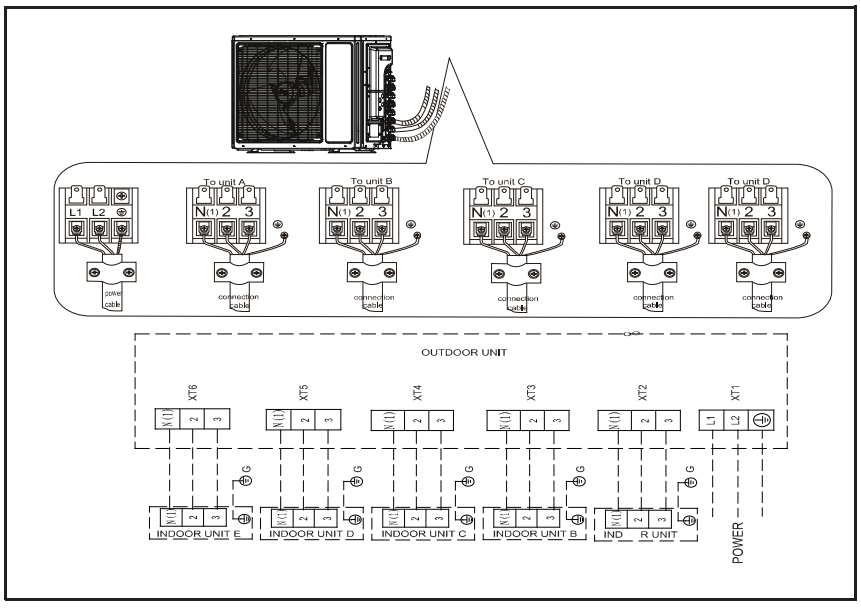
4) If connecting with four indoor units, the connection cable should be put in from hole A, B , C and D.
5) If connecting with five indoor units, the connection cable should be put in from hole A, B , C , D. and E

All power cables and connection cables must be protected with conduits.



⚠ Warning and Caution

After having removed the packaging, check that the contents are intact and complete.

The outdoor unit must always be kept upright.

Handling must be done by suitably equipped qualified technical personnel using equipment that will support the weight of the appliance .

⚠ Warning and Caution

Use bolts to secure the unit to a flat, solid floor.
When mounting the unit on a wall or the roof, make sure the support is firmly secured so that it cannot move in the event of intense vibrations or a strong wind.

Do not run the refrigerant lines in pits or air vents

Use suitable connecting pipes and equipment for the refrigerant R410A.

Models(ft)	18K	24/30/36/42
Maximum equivalent length for all piping with multiple indoor units.	66	230
Max. connection pipe length(Simple one indoor unit)	33	66

The refrigerant pipes must not exceed the maximum heights 16ft(18K) or 33ft(24K, 30K,36K, 42K).

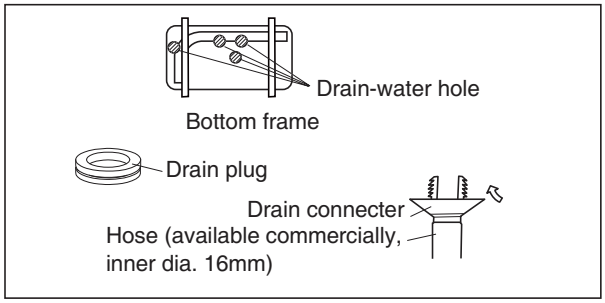
Wrap all the refrigerant pipes and joints.

Tighten the connections using two wrenches working in opposite directions

Caution: Installation Must be Performed in Accordance with the NEC/CEC by Authorized Personnel Only.

Install the drain fitting and the drain hose(for model with heat pump only)

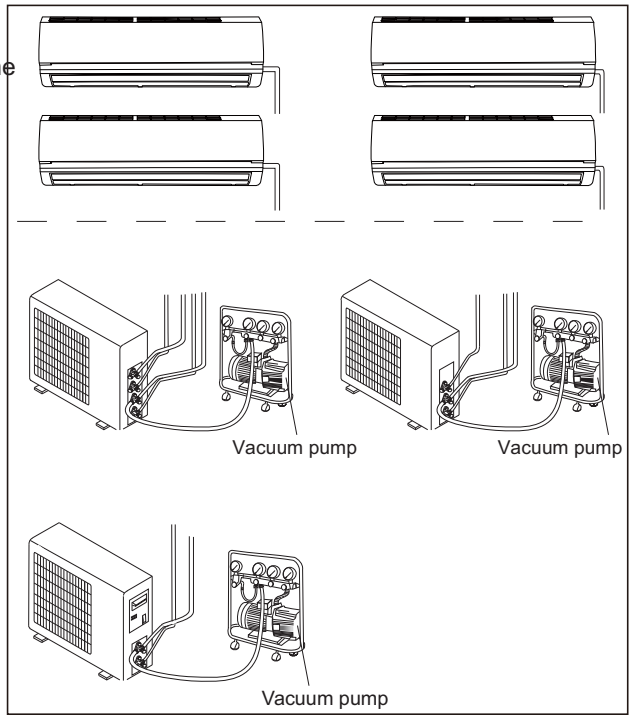
Condensation is produced and flows from the outdoor unit when the appliance is operating in the heating mode. In order not to disturb neighbours and to respect the environment, install a drain fitting and a drain hose to channel the condensate water. Install the drain fitting and rubber washer on the outdoor unit chassis and connect a drain hose to it as shown in the figure.



Evacuation INSTALLER

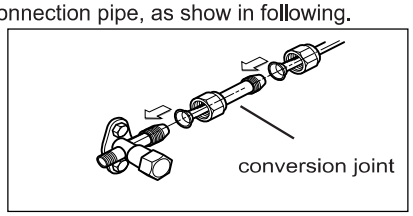
Humid air left inside the refrigerant circuit can cause compressor malfunction. After having connected the indoor and outdoor units,evacuate the air and humidity from the refrigerant circuit using a vacuum pump.

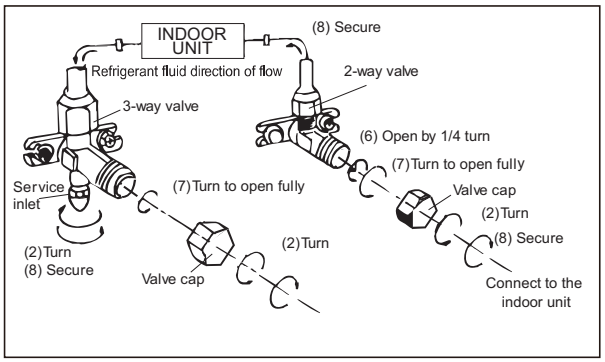
(1) Unscrew and remove the caps from the 2-way and 3-way valves.
(2) Unscrew and remove the cap from the service valve.
(3) Connect the vacuum pump hose to the service valve.
(4) Operate the vacuum pump for 10-15 minutes until an absolute vacuum of 350 microns has been reached.
(5) With the vacuum pump still in operation, close the low-pressure knob on the vacuum pump coupling. Stop the vacuum pump.
(6) Open the 2-way valve by 1/4 turn and then close it after 10 seconds.Check all the joints for leaks using liquid soap or an electronic leak device.
(7) Turn the body of the 2-way and 3-way valves. Disconnect the vacuum pump hose.
(8) Replace and tighten all the caps on the valves.



Diameter (inch)	Twisting moment (lbf-inch)
Φ1/4"	133-177
Φ3/8"	274-310
Φ1/2"	443-487
Φ5/8"	531-575
Φ3/4"	70-75

(9) If the specification of outdoor unit gas valve is 3/8" , but curstomer needs to install 1/2" indoor unit so that it is need to use a “pipe joint subassembly” (Code 06643008) to make a conversion joint with outdoor unit gas valve and connection pipe, as show in following.



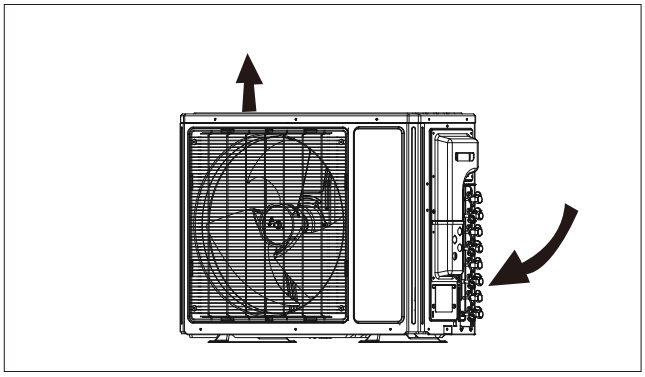


⚠ Warning and Caution

Use suitable instruments for the refrigerant R410A.

Do not use any other refrigerant than R410A.

Do not use mineral oils to clean the unit.



INSTALLATION DIMENSION DIAGRAM INSTALLER

⚠ Warning and Caution

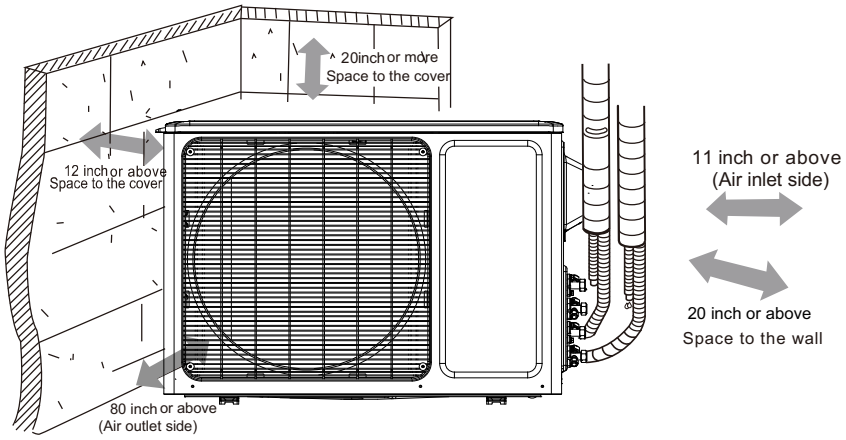
The installation must be done by trained and qualified service personnel with reliability according to this manual.

Contact service center before installation to avoid the malfunction due to unprofessional installation.

When picking up and moving the units, you must be guided by trained and qualified person.

Ensure that the recommended space is left around the appliance .

4TXM6530A1040BA , 4TXM6524A1030BA, 4TXM6530A1040BA, 4TXM6536A1040BA,4TXM6542A1050BA



This is just the schematic plan, please refer to the actual product.

Check Items	Problems due to Improper Installation
Is the installation reliable?	The unit may drop, vibrate or make noises
Has the gas leakage been checked?	May cause unsatisfactory cooling (heating) effect
Is the thermal insulation of the unit sufficient?	May cause condensation and water dropping
Is the drainage smooth?	May cause condensation and water dropping
Does the power supply voltage accord with the rated voltage specified on the nameplate?	The unit may break down or the components may be burned out
Are the lines and pipelines correctly installed?	The unit may break down or the components may be burned out
Has the unit been safely grounded?	Risk of electrical shock
Are the models of lines in conformity with requirements?	The unit may break down or the components may be burned out
Are there any obstacles near the air inlet and outlet of the indoor and outdoor units?	The unit may break down or the components may be burned out
Have the length of refrigerating pipe and refrigerant charge amount been recorded?	This information is needed to determine the correct final charge.

Notes:

a. The refrigerant charge mentioned in the technical data does not includ additional charge required for the indoor unit and the refrigerant pipe.

b. The amount of the additional refrigerant charge depends on the diameter and length of the liquid refrigerant pipe installed.

c. Record the additional refrigerant charge for future maintenance.

1). Calculation of the Additional Refrigerant Charge

Model#	Shortest Safe range(ft)*	Longest Safe range(ft)*	Maximum tubing length(ft)*	Maximum tubing Lift(ft)*	(+/-) oz per ft outside safe range
4TXM6518A1020BA**	33	66	66	16	0.2
4TXM6524A1030BA**	49	98	230	33	0.2
4TXM6530A1040BA**	66	132	230	33	0.2
4TXM6536A1040BA**	82	135	230	33	0.2
4TXM6542A1050BA**	98	164	230	33	0.2

Additional Refrigerant Charge2=∑Extra Liquid Pipe Length×0.2 oz /ft（ liquid pipe 1/4"）.

Notes:

* No need to -/+ refrigerant when pipe length is within shortest ~longest safe range

** Total pipe length of all IDUs connected to one ODU

* If the total equivalent refrigerant tubing line length is between shortest and longest, then there is no need to adjust the factory charging,

* If the total equivalent refrigerant tubing is less than the shortest safe range, reduce the factory charge by 0.2 oz/ft.

* If the total equivalent refrigerant tubing it is more than the longest safe range, add charge by 0.2 oz/ft.

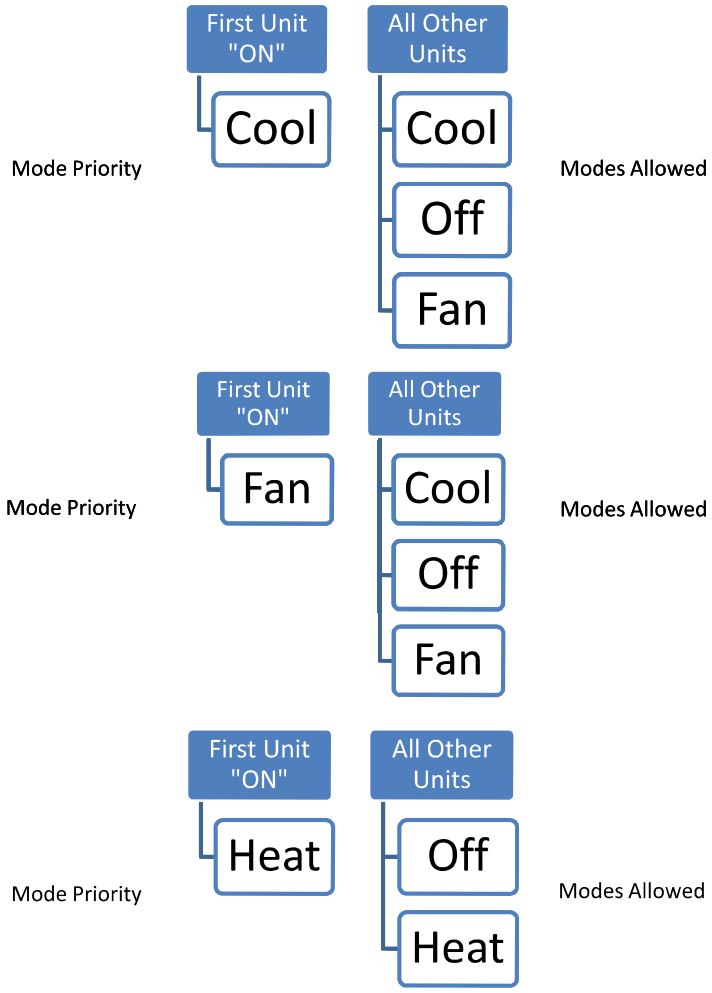
NOTICE:

SYSTEM CONTROL LOGIC WITH MULTI SPLIT APPLICATIONS

1. With Multi Split systems, there will be a Mode Priority established by the first indoor unit to be started. All other indoor units must follow this Mode Priority which will limit the operations allowed. This logic is required as there will be different indoor units connected to one outdoor unit and opposing modes are not allowed simultaneously.

2. An error code of E7 (Mode Conflict) will be displayed if opposing modes are attempted.

3. Once the Mode Priority has been established, all other indoor units will be limited to the following allowable operations:



4. All indoor units can operate independently provided the desired operating mode is available.

5. When Heat Mode is ON for any unit, the Fan Mode is not available by design, to avoid cool air complaints.

6. If a Mode Priority unit is set to FAN and another unit is turned to Heat Mode, the Fan will stop running on the Priority unit. With this change, the unit switched to Heat Mode active becomes the Mode Priority unit and all other units will be bound by the allowable operations for Heat Mode.

Installation location

Indoor Unit

⚠WARNING

Adequate Support!

Wall structure must be adequate to support the weight of the unit. Failure to ensure adequate structural support could result in unit falling from its location which could result in death, serious injury, or equipement or property-only damage.

1. Avoid locating the indoor unit where the return and/or supply air may be obstructed
2. Select a location where it is easy to drain the condensing water and connect to the outdoor unit;
3. Keep the indoor unit far away from heat sources, vapor and flammable gas;
4. Be sure that the installation of the indoor unit conforms to the installation dimension diagram;
5. Be sure to leave enough space to allow access for routine maintenance; clearance between the bottom of the indoor unit and the floor should not be less than 66".
6. Install in a location where the unit is more than 3 feet away from other electric appliances such as television, audio devices etc.;
7. Select location where air filters can be easily removed

Outdoor unit

⚠WARNING

Adequate Support!

Wall structure must be adequate to support the weight of the unit. Failure to ensure adequate structural support could result in unit falling from its location which could result in death, serious injury, or equipement or property-only damage.

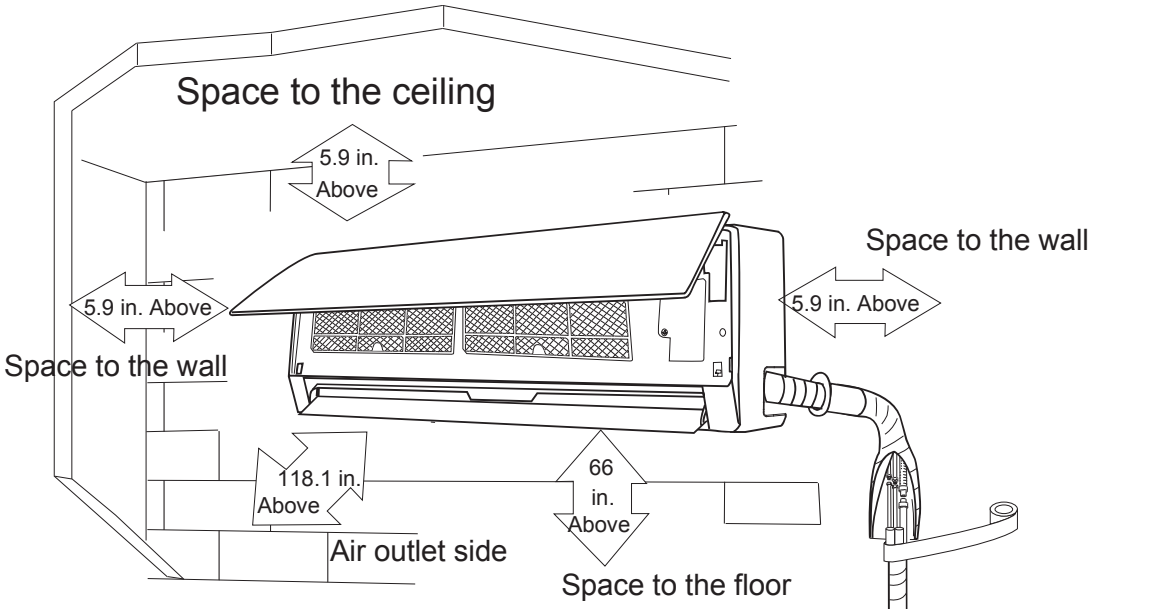
1. Select a location from which noise and air discharge by unit will not annoy neighbors.
2. Select a location where there is sufficient ventilation.
3. Make sure the air inlet and outlet are not blocked by any obstacles.
4. Select a location capable of supporting the weight and vibration of the outdoor unit, and where installation work can be carried out safely.
5. Select a location away from flammable gas or gas leaks.
6. Make sure that the installation of the outdoor unit conforms to the installation dimension diagram.
7. Locate the outdoor unit away from any bedroom windows.

NOTICE

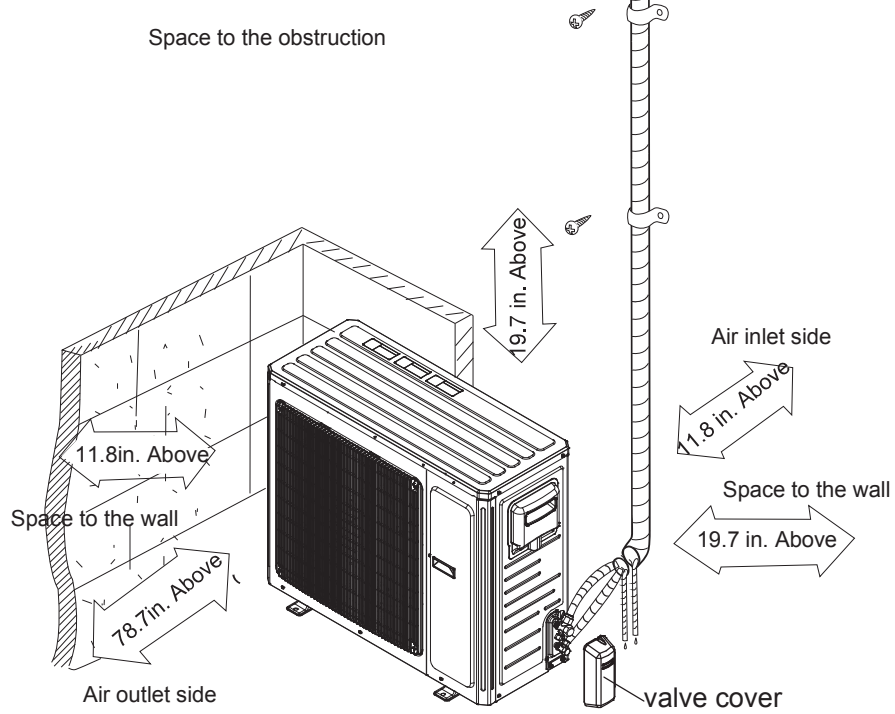
Installing the unit in one of the following locations could result in unit malfunction:

- Places where oil (machine oil) is used
- Seaside/places with high level of salt in the air.
- Places with high level of sulfur gas such as areas with hot springs.
- Places where high-frequency waves are generated by radio equipment, welders and medical equipment.
- Other unusual places where unit operation may be altered.

Installation Dimension Diagram



- The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures



Schematic diagram being reference only (outdoor unit is with variation),

please refer to real product for authentic information.

Installation - Indoor High Wall - 4MXW8-A

Indoor Unit Installation

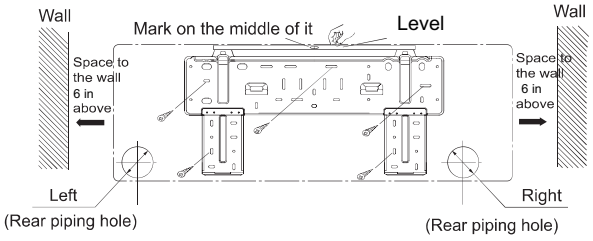
⚠WARNING

Hazardous Service Procedures!

The maintenance and troubleshooting procedures recommended in this section of the manual could result in exposure to electrical, mechanical or other potential safety hazards. Always refer to the safety warnings provided throughout this manual concerning these procedures. When possible, disconnect all electrical power including remote disconnect and discharge all energy storing devices such as capacitors before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. When necessary to work with live electrical components, have a qualified licensed electrician or other individual who has been trained in handling live electrical components perform these tasks. Failure to follow all of the recommended safety warnings provided, could result in death or serious injury.

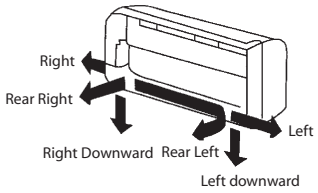
Mounting Location

1. Always mount the rear panel horizontally.
2. Fix the rear panel on the selected location
3. Be sure that the rear panel has been fixed firmly enough to withstand the weight 140 lbs, furthermore, the weight should be evenly shared by each screw.



Drilling a hole in the wall to install the piping

The piping can be connected in six different locations on the unit, as shown on figure below:



1. Drill a 2 1/2 inch diameter hole in the wall at a slight downward angle toward the outdoor side in such a way that the end of the pipe outside is 1/4 inch lower than the inside.
2. Insert a sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole.

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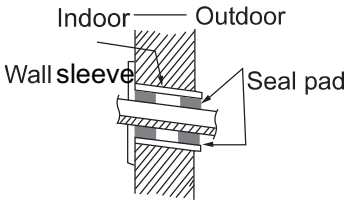


NOTICE

When a wall sleeve is not used, it is then necessary to drill a straight hole in the wall. If the hole is not straight and uniform, this could result in water leaking from condensation, resulting in property damage.

NOTICE

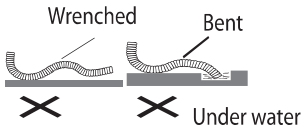
If a wall sleeve is not mounted in the wall, the wiring between the indoor unit and the outdoor unit can possibly be damaged resulting in electrical current loss in the ground wiring.

Installing the water drain pipe

NOTICE

Do not wrench or bend the drain hose and make sure the ends of the drain pipe are not under water. Failure to do so could result in leakage.

1. To ensure proper water drainage, the drain hose should be placed at a downward slant.
2. The water drain pipe must be insulated throughout the house.



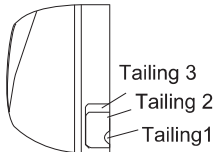
Installing the unit

Note: *The piping can be lead out from right, right rear, left, left rear.*

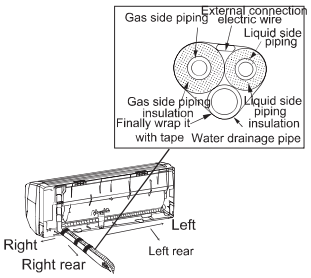
1. When routing the piping and wiring from the left or right side of indoor unit, cut off the tailings from the chassis in necessary.

   (1).Cut off the tailings 1 when routing the wiring only;

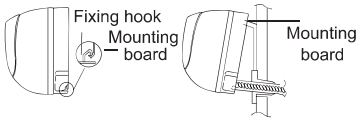
   (2).Cut off the tailings 1 and tailings 2 when routing both the wiring and piping.(or 1,2,3)



2. Take out the piping from body case, wrap the piping electric wire, water pipe with tape and put them through the piping hole.

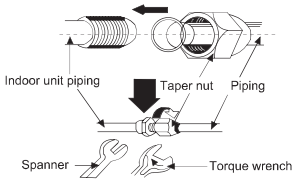


3. Hang the mounting slots of the indoor unit on the upper tabs of the rear panel and check if it is firm enough.



Installing the connection pipe

1. Align the center of the piping flare with the relevant valve.



2. Screw in the flare nut by hand and then tighten the nut with spanner and torque wrench refer to the following.

Table 2. Tightening Torque Table

Hex nut Diameter	Tightening torque (lbf-inch)
6mm - 1/4"	133-177
9.5mm - 3/8"	274-310
12mm - 1/2"	443-487
16mm - 5/8"	531-575

Note: First, connect the connection pipe to indoor unit, then to outdoor unit; pay attention to the piping bending, do not damage the connection pipe; to avoid leakage,

do not over tighten the joint nut

Installation - Indoor High Wall - 4MXW8-A

Recommended wire size

Models which power supplied from ODU to IDU (In this IOM are specific to all 60Hz models)

Wire type	Wire size
Power supply wire	AWG12
Wires between IDU and ODU	AWG14

Note: Always refer to unit ID tag for additional information on Minimum Circuit Ampacity (MCA) and Maximum Overload Protection (MOP).

⚠WARNING

Hazardous Voltage!

Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Failure to disconnect power before servicing could result in death or serious injury.

1. Open the front panel of the indoor unit by lifting upward.
2. Unscrew and remove the cover plate.
3. Pull the power connection cable through the back of the indoor unit.
4. Firmly attach the power connection cables to the terminal block in the indoor unit, making certain to observe the proper terminal connections as shown on the unit wiring diagram.
5. Reattach the cover plate with the proper screws.
6. The electric wire must be tighten with the wire clip. And for the heat pump unit, the signal control wire must be connected to the terminal board with the wire clip.

Installing Additional Indoor units, refer to Their Specific Installatoin Manual:

MS-SVN34A-EN Duct Type Units:
4MXD8509A, 4MXD8512A, 4,XD8518A, 4MXD8521A, 4MXD8524A

MS-SVN36A-EN Cassette Type Units:
4MXC8512A, 4MXC8518A, 4MXC8524A

MS-SVN37A-EN Floor/Ceiling Convertible Type Units:
4MXX8509A, 4MXX8512A, 4MXX8518A, 4MXX8524A

MS-SVN39A-EN Console Type Units:
4MXF8509A, 4MXF8512A, 4MXF8518A

MS-SVN40A-EN Wired Remote Control