

INSTALLATION MANUAL

Model **MXZ-A26/32WV**



This Installation Manual describes only for the outdoor unit and the connected indoor unit of MSH series.
If the connected indoor unit is MSH, MSZ, MCFH, SLZ and SEZ series, refer to the Installation Manual for MSH, MSZ, MCFH, SLZ and SEZ series for the information other than outdoor unit.

FOR INSTALLER

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IMPORTANT NOTES

TO COMPLY WITH THE REQUIREMENTS OF AUSTRALIAN STANDARD AS 3000 S.A.A. WIRING RULES, THE ELECTRICAL WIRING REQUIRED BETWEEN THE INDOOR AND OUTDOOR UNITS MUST BE INSTALLED BY A LICENCED ELECTRICAL CONTRACTOR.

1. THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY

- Be sure to read “THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY” before installing the air conditioner.
- Be sure to observe the cautions specified here as they include important items related to safety.
- The indications and meanings are as follows.

⚠ **WARNING:** Could lead to death, serious injury, etc.

⚠ **CAUTION:** Could lead to serious injury in particular environments when operated incorrectly.

- After reading this manual, be sure to keep it together with the OPERATING INSTRUCTIONS in a handy place on the customer’s site.

⚠ WARNING

■ **Do not install the unit by yourself (customer).**
Incomplete installation could cause injury due to fire, electric shock, the unit falling or leakage of water. Consult the dealer from whom you purchased the unit or special installer.

■ **Install the unit securely in a place which can bear the weight of the unit.**
When installed in an insufficient strong place, the unit could fall causing injury.

■ **Use the specified wires to connect the indoor and outdoor units securely and attach the wires firmly to the terminal block connecting sections so the stress of the wires is not applied to the sections.**
Incomplete connecting and fixing could cause fire.

■ **Do not use intermediate connection of the power cord or the extension cord and do not connect many devices to one AC outlet.**
It could cause a fire or an electric shock due to defective contact, defective insulation, exceeding the permissible current, etc.

■ **Check that the refrigerant gas due not leak after installation has completed.**
If refrigerant gas leaks indoors, and comes into contact with the fire of a fan heater, space heater, stove, etc., harmful substances will be generated.

■ **Perform the installation securely referring to the installation manual.**
Incomplete installation could cause a personal injury due to fire, electric shock, the unit falling or leakage of water.

■ **Perform electrical work according to the installation manual and be sure to use an exclusive circuit.**

If the capacity of the power circuit is insufficient or there is insufficient electrical work, it could result in a fire or an electric shock.

■ **Attach the electrical cover to the indoor unit and the service panel to the outdoor unit securely.**

If the electrical cover in the indoor unit and/or the service panel in the outdoor unit are not attached securely, it could result in a fire or an electric shock due to dust water, etc.

■ **Be sure to use the part provided or specified parts for the installation work.**

The use of defective parts could cause an injury due to a fire, an electric shock, the unit falling, leakage of water, etc.

■ **Be sure to cut off the main power in case of setting up the indoor electronic control P.C. board or wiring works.**

It could cause an electric shock.

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

■ **When installing or relocating the unit, make sure that no substance other than the specified refrigerant (R410A) enters the refrigerant circuit.**

Any presence of foreign substance such as air can cause abnormal pressure rise or an explosion.

⚠ CAUTION

■ **Perform earthing.**
Do not connect the earth wire to a gas pipe, water pipe, lightning rod or telephone earth wire. Defective earthing could cause an electric shock.

■ **Do not install the unit in a place where an inflammable gas leaks.**
If gas leak and accumulate in the area surrounding the unit, it could cause an explosion.

■ **Fasten a flare nut with a torque wrench as specified in this manual.**
When fastened too tight, a flare nut may broken after a long period and cause a leakage of refrigerant.

■ **Install a earth leakage breaker depending on the installation place (Where it is humid).**

If a earth leakage breaker is not installed, it could cause an electric shock.

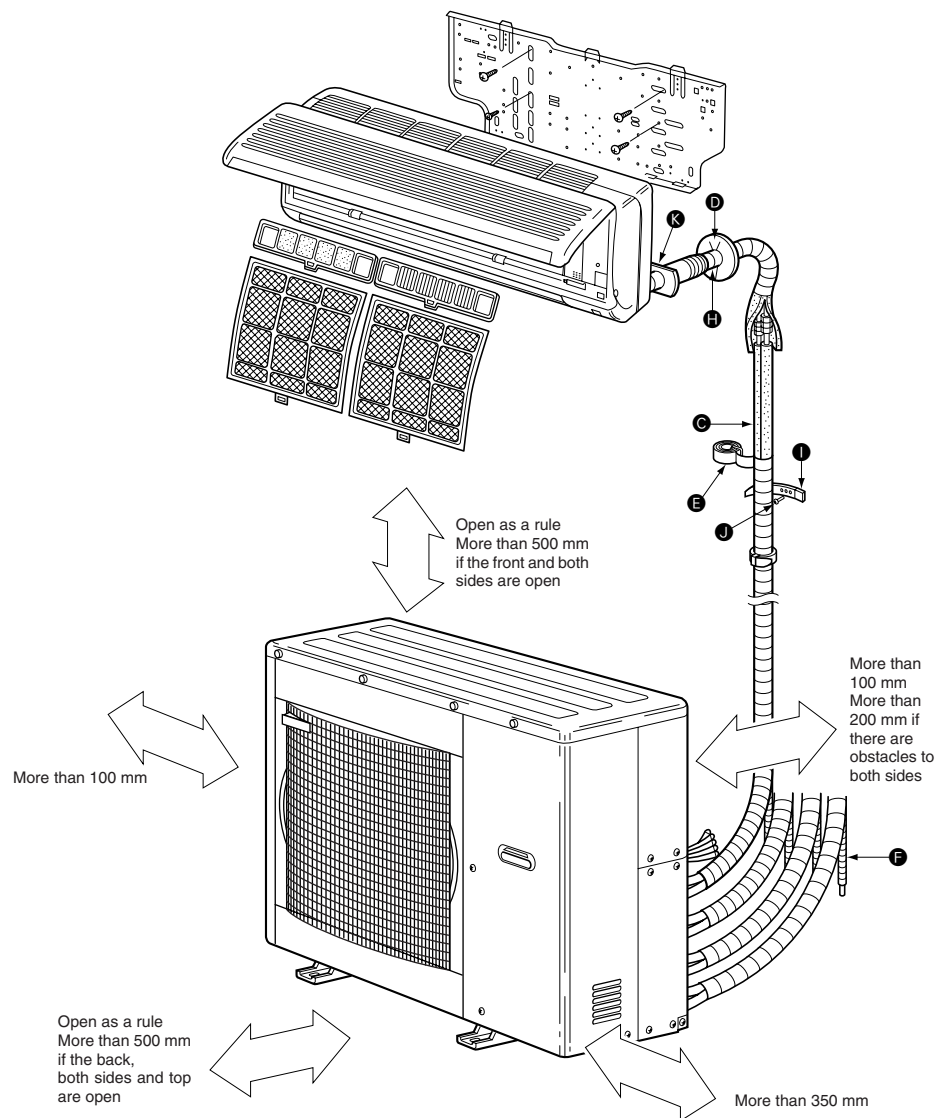
■ **Perform the drainage/piping work securely according to the installation manual.**

If there is a defect in the drainage/piping work, water could drop from the unit and household goods could be wet and damaged.

2. INSTALLATION DIAGRAM & ACCESSORIES

Before installation

This installation manual is only for the outdoor unit installation. In installing the indoor units, refer to the installation manual attached to each indoor unit.
Any structural alternations necessary for the installation must comply with the local building code requirements.



3. SELECTING THE INSTALLATION LOCATION

Parts to be locally procured

A	Power supply cord (3-core 2.5 mm ²)	1
B	Indoor/outdoor unit connecting wire (2-core 1.0 mm ² /1.5 mm ²)	1
C	Extension pipe According to "Selecting pipe size"	1
D	Wall hole cover	1
E	Piping tape	1
F	Extension drain hose (or soft vinyl chloride hose of 15 mm in internal dia. or hard vinyl chloride pipe VP16)	1
G	Refrigeration oil	Little amount
H	Putty	1
I	Pipe fixing band (The number depends on the pipe length.)	2 to 7
J	Fixing screw for I (The number depends on the pipe length.)	2 to 7
K	Wall hole sleeve	1

NOTE:

- Do not use the drain socket and the drain cap in the cold region.
Drain may freeze and it makes the fan stop.

- The "Q'ty" for B to K in the above table is the quantity to be used per indoor unit.

⚠ WARNING:

Be sure to use specified accessories and supplied parts for installation work. If there is some deficiency in parts, it may cause a risk of fire, electric shock, injury by a unit fall or water leakage.

Constraints On Indoor Unit Installation

You should note that indoor unit that can be connected to this outdoor unit have the following constraints on them.

- Indoor units with model numbers 07, 09, 12, 13, 18, 24 and 26 can be connected. Refer to the table below for possible two-room, three-room and four-room indoor unit combinations. Four-room indoor unit combination is only available for MXZ-A32WV.

MXZ-A26WV/MXZ-A32WV Combination

2 UNIT	07+07	07+09	07+12(13)	07+18	07+24	07+26	09+09
MXZ-A26WV	09+12(13)	09+18	09+24	09+26	12(13)+12(13)	12(13)+18	12(13)+24
MXZ-A32WV	12(13)+26	18+18	18+24	18+26	24+24	24+26	
3 UNIT	07+07+07	07+07+09	07+07+12(13)	07+07+18	07+07+24	07+07+26	07+09+09
MXZ-A26WV	07+09+12(13)	07+09+18	07+09+24	07+09+26	07+12(13)+12(13)	07+12(13)+18	07+12(13)+24
MXZ-A32WV	07+12(13)+26	07+18+18	07+18+24	07+18+26	09+09+09	09+09+12(13)	09+09+18
4 UNIT	07+07+07+07	07+07+07+09	07+07+07+12(13)	07+07+07+18	07+07+07+24	07+07+07+26	07+07+09+09
MXZ-A32WV	07+07+09+12(13)	07+07+09+18	07+07+09+24	07+07+09+26	07+07+12(13)+12(13)	07+07+12(13)+18	07+07+12(13)+24
	07+07+18+18	07+09+09+09	07+09+09+12(13)	07+09+09+18	07+09+09+24	07+09+12(13)+12(13)	07+09+12(13)+18
	07+09+12(13)+24	07+12(13)+12(13)+12(13)	07+12(13)+12(13)+18	09+09+09+09	09+09+09+12(13)	09+09+09+18	09+09+09+24
	09+09+12(13)+12(13)	09+09+12(13)+18	09+12(13)+12(13)+12(13)	12(13)+12(13)+12(13)+12(13)			

- Where it is not exposed to strong wind.
- Where airflow is good and dustless.
- Where it is not exposed to rain and direct sunshine.
- Where neighbours are not annoyed by operation sound or hot air.
- Where rigid wall or support is available to prevent the increase of operation sound or vibration.
- Where there is no risk of combustible gas leakage.
- When installing the unit at a high level, be sure to fix the unit legs.
- Where it is at least 3 m away from the antenna of TV set or radio. (Otherwise images would be disturbed or noise would be generated.)
- Install the unit at level.
- Please install it in an area not affected by snowfall or blowing snow. In areas with heavy snow, please install a canopy, a pedestal and/or some baffle boards.

Note:

It is advisable to make a piping loop near outdoor unit so as to reduce vibration transmitted from there.

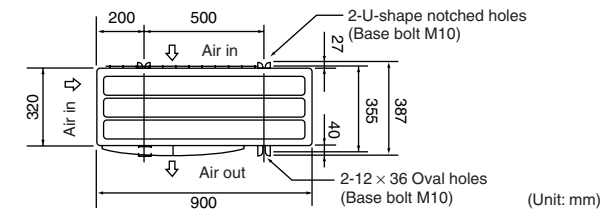
⚠ WARNING:

Be sure to install the unit in a place that well sustains its weight. Installing in a place with less strength may result in a unit falling, causing a risk of injury.

⚠ CAUTION:

Avoid the following places for installation where air conditioner trouble is liable to occur.

- Where flammable gas could leak.
- Where there is much machine oil.
- Salty places such as the seaside.
- Where sulfide gas is generated such as a hot spring.
- Where there is high-frequency or wireless equipment.



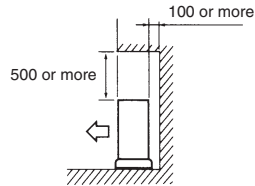
(Unit: mm)

4. OUTDOOR UNIT INSTALLATION

FREE SPACE REQUIRED AROUND OUTDOOR UNIT (Unit: mm)

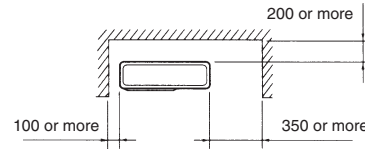
1. Top side obstacles

When there is an obstacle behind the rear side only, it does not matter if there is an obstacle over the top side as shown in the figure below.



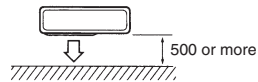
2. Front (blowing) side open

As long as space like the one shown in the figure can be maintained, it does not matter if there are obstacles in three directions (but top side is open).



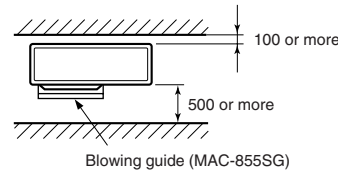
3. Obstacles on front (blowing) side only

In this case, the rear, both sides and top should be open.



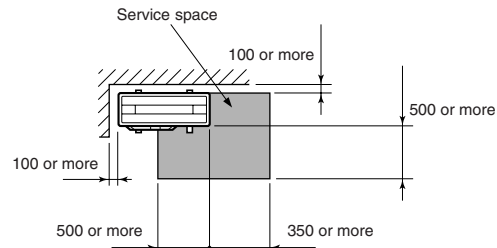
4. Obstacles on front and rear side only

The unit can be used by attaching an optional outdoor blowing guide (MAC-855SG) (but both sides and top are open).



5. Service space

Keep the service space as shown in the figure below for maintenance.

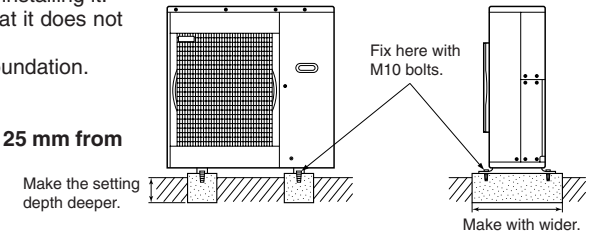


4-1 INSTALLING THE UNIT

- Be sure to fix the unit's legs with bolts when installing it.
- Be sure to install the unit firmly to ensure that it does not fall by an earthquake or a gust.
- Refer to the figure in the right for concrete foundation.

Note:

The length of anchor bolts should be within 25 mm from each anchor leg.

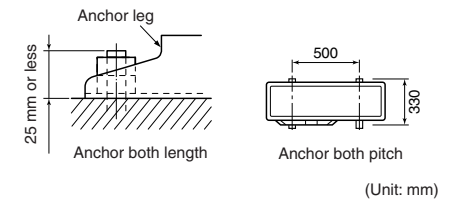


- Do not use the drain socket and the drain cap in the cold region. Drain may freeze and it makes the fan stop.

⚠ CAUTION:

Be sure to carry out drain piping work following the installation manual.

If there is some deficiency in draining and piping work, it may cause a risk of dripping from the unit, wetting or forling your property.



4-2 MOUNTING ARRANGEMENT OF DRAIN SOCKET

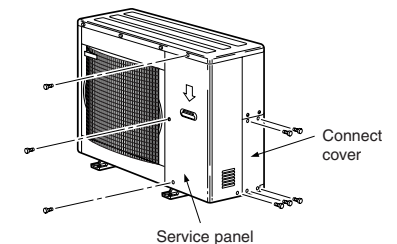
⚠ CAUTION:

Do not use drain socket and drain cap in the cold region. Drain may freeze and it makes the fan stop.

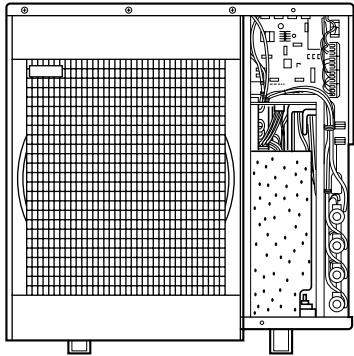
- ① Please choose one hole to discharge drain and install the drain socket to the hole.
- ② Please close the rest of the holes with the drain caps.
- ③ Please connect a vinyl hose of 25 mm in the inside diameter on the market with the drain socket and lead drain.

4-3 HOW TO REMOVE THE SERVICE PANEL AND THE CONNECT COVER

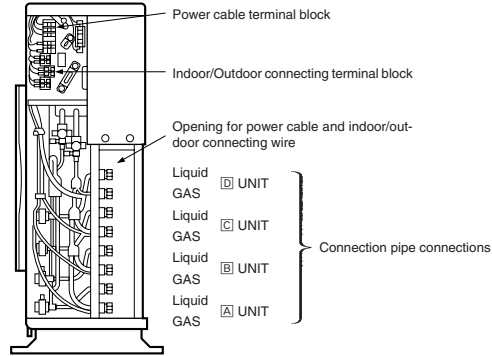
- Remove the four service panel securing screws, and pull the panel down in an arrow direction to remove the service panel.
- Remove the four connect cover securing screws to remove the connect cover.



<Front View>



<Right Side View>



4-4 INDOOR/OUTDOOR WIRE CONNECTION AND OUTDOOR POWER SUPPLY CORD CONNECTION

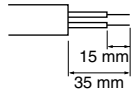
- Be sure to lead in the power supply cord **A** to the air conditioner in accordance with the specification table below and “Technical Standards for Electrical Installation”.
- Be sure to use special circuits for room air conditioner.

CAUTION:
Attach an earth leakage breaker according to your installation location. If any breaker is not attached, it may cause a risk of electric shock.

WARNING:
Be sure to comply with “Technical Standards for Electrical Installation”, follow this manual and use special circuits for electrical work. If there is a lack of circuit capacity or some deficiency in installation, it may cause a risk of fire or electric shock.
Overcurrent that might be produced may include DC substances. Be careful to choose the correct type of overcurrent protection switch.

Rated Voltage	Breaker capacity	Connect to the supply terminals and leave a contact separation of at least 3 mm at each pole to disconnect the source power pole. (When the power switch is shut off, it must disconnect all poles.)
230 V	25 A	

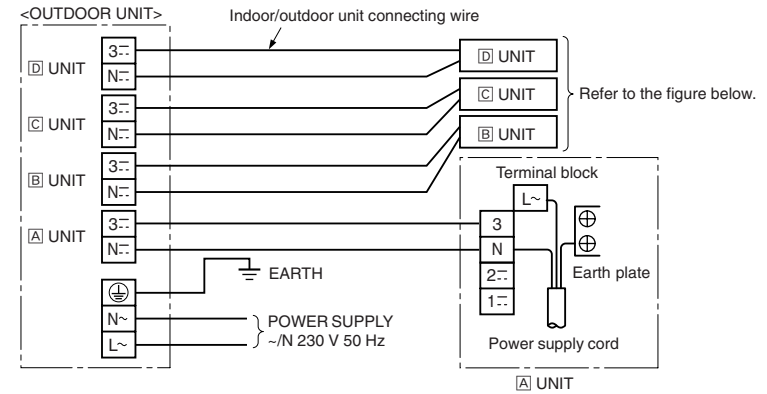
- Peel off both ends of the cables as shown in the right.
- Take care not to let the cables contact the pipes inside the unit.
- Take enough care to connect the indoor/outdoor unit connecting wire correctly between the respective indoor units and the outdoor unit.
- Make earth wire a little longer than the others. (more than 35 mm)



- For the power supply cord and the indoor/outdoor unit connecting wires, be sure to use the ones in compliance with the standards.
- Be sure to push the core until it is hidden and pull each cable to make sure that it is not pulled up incomplete insertion may cause a risk of burning the terminal blocks.

Power supply cord Specification	Cable 3-core 2.5 mm ² , in conformity with Design 245 IEC 57.
Indoor and Outdoor connecting wire Specification	Cable 2-core 1.0/1.5 mm ² , in conformity with Design 245 IEC 57.

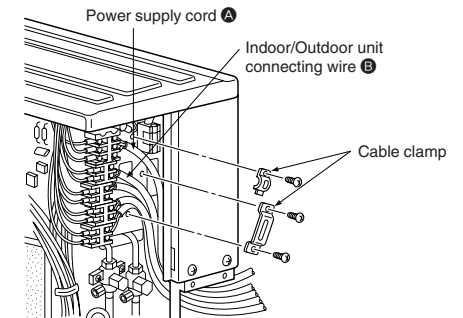
This installation manual is only for the outdoor unit installation. In installing the indoor units, refer to the installation manual attached to each indoor unit.



WARNING:
Use the indoor/outdoor unit connecting wire that meets the Standards to connect the indoor and outdoor units and fix the wire to the terminal block securely so that no external force is conveyed to the connecting section of the terminal block. Incomplete connection or fixing of the wire could result in a fire.

- Give extra length to both power supply cord **A** and indoor/outdoor unit connecting wire **B** taking later service into account.
- After making connections between both power supply cord **A** and indoor/outdoor unit connecting wire **B**, be sure to fix both cable and wire with cable clamps.

WARNING:
Be sure to attach the terminal block covers (panel) of both indoor and outdoor units. If there is some deficiency in terminal block cover (panel) attachment, it may cause a risk of fire or electric shock due to dust or water.



5. INDOOR/OUTDOOR UNITS CONNECTION FINISHING AND TEST RUN

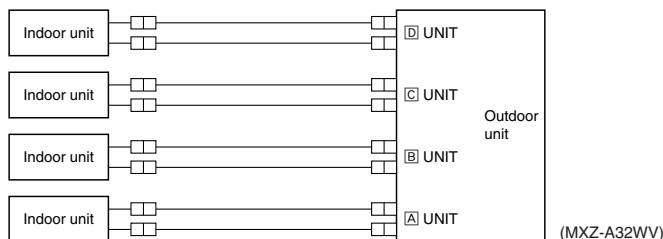
5-1 FLARED CONNECTIONS

PIPE LENGTH AND HEIGHT DIFFERENCE

Limits	A26WV	A32WV
Pipe length per indoor unit	25 m max.	25 m max.
Total pipe length for multi-system	50 m max.	70 m max.
Height difference	10 m max.	10 m max.
No. of bends per indoor unit	25 max.	25 max.
Total No. of bends for multi-system	50 max.	70 max.

Refrigerant adjustment If pipe length exceeds 40 m, additional refrigerant (R410A) charge is required. (The outdoor unit is charged with refrigerant for total pipe length up to 40 m.)

Pipe length	Up to 40 m	No additional charge is required.
	Exceeding 40 m	Additional charge is required. (Refer to the table below.)
Refrigerant to be added	20 g/m × (refrigerant piping length(m)-40)	



- For pipe size, see the table below.

SELECTING PIPE SIZE

The diameter of connection pipes differs according to the type and capacity of indoor units. Match the diameters of connection pipes for indoor and outdoor units according to the following table.

Model name	Pipe size for indoor unit		Allowable connection pipe size
07	Liquid pipe	ø6.35 mm	ø6.35 mm
09	Gas pipe	ø9.52 mm	ø9.52 mm
12	Liquid pipe	ø6.35 mm	ø6.35 mm
13	Gas pipe	ø9.52/ø12.7 mm	ø9.52/ø12.7 mm
18	Liquid pipe	ø6.35 mm	ø6.35 mm
	Gas pipe	ø12.7 mm	ø12.7 mm
24	Liquid pipe	ø6.35 mm	ø6.35 mm
	Gas pipe	ø15.88 mm	ø15.88 mm
26	Liquid pipe	ø9.52 mm	ø9.52 mm
	Gas pipe	ø15.88 mm	ø15.88 mm

MXZ-A32WV

Valve size for outdoor unit		
[A] UNIT	Liquid pipe	ø6.35 mm
	Gas pipe	ø12.7 mm
[B] UNIT	Liquid pipe	ø6.35 mm
	Gas pipe	ø12.7 mm
[C] UNIT	Liquid pipe	ø6.35 mm
	Gas pipe	ø9.52 mm
[D] UNIT	Liquid pipe	ø6.35 mm
	Gas pipe	ø9.52 mm

MXZ-A26WV

Valve size for outdoor unit		
[A] UNIT	Liquid pipe	ø6.35 mm
	Gas pipe	ø12.7 mm
[B] UNIT	Liquid pipe	ø6.35 mm
	Gas pipe	ø9.52 mm
[C] UNIT	Liquid pipe	ø6.35 mm
	Gas pipe	ø9.52 mm

- * Connections at outdoor unit are described as unit A, B, C and D below corresponding to the indication on each valve.
- If the diameter of connection pipes does not match the diameter of pipe end connections, use optional different-diameter joints.
- When connecting the model 12, 13 or 18 to either unit A or B for MXZ-A32WV and B or C for MXZ-A26WV, use optional different-diameter joints MAC-A454JP because the valve size of gas pipes for the outdoor unit is ø9.52 mm. (No need to use different-diameter joints if the diameter of the pipe is ø9.52 mm.)
- When connecting the model 07 or 09 to either unit A or B for MXZ-A32WV and A for MXZ-A26WV, use optional different-diameter joints MAC-A455JP because the valve size of gas pipes for the outdoor unit is ø12.7 mm.
- When connecting the model 24 to either unit A or B for MXZ-A32WV and A for MXZ-A26WV, use optional different-diameter joints MAC-A456JP because the valve size of gas pipes for the outdoor unit is ø12.7 mm.
- Connect the model 26 to unit A only.**
Use optional different-diameter joints MAC-A456JP because the valve size of gas pipes for the outdoor unit is ø12.7 mm and PAC-493PI because the valve size of liquid pipe is ø6.35 mm.

PIPING PREPARATION

- If you use commercially available copper pipes, use the following table for pipe specifications.

	Outside diameter	Wall thickness
Liquid pipe	ø6.35 mm	0.8 mm
Gas pipe	ø9.52 mm	0.8 mm
Gas pipe	ø12.7 mm	1.0 mm
Gas pipe	ø15.88 mm	1.0 mm

- For insulation material, use 8 mm-thick heat-insulating expanded polyethylene with a specific gravity of 0.045.
- Ensure that the 2 refrigerant pipes are insulated to prevent condensation.
- Refrigerant pipe bending radius must be 100 mm or more.

⚠ CAUTION:

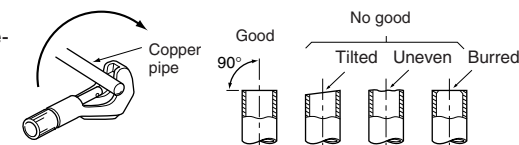
Be sure to use the insulation of specified thickness. Excessive thickness may cause incorrect installation of the indoor unit and lack of thickness may cause dew drippage.

5-2 FLARING WORK

- Main cause of gas leakage is defect in flaring work. Perform flaring work correctly in the following procedure.

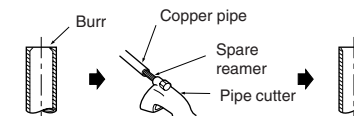
1. Pipe cutting

- Cut the copper pipe correctly with pipe cutter.



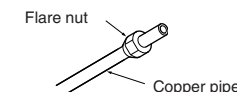
2. Burrs removal

- Completely remove all burrs from the cut cross section of the pipe.
- Put the end of the copper pipe downward to prevent burrs from dropping in the pipe.



3. Putting nut on

- Remove flare nuts attached to indoor and outdoor units, then put them on pipe having completed burr removal. (not possible to put them on after flaring work)

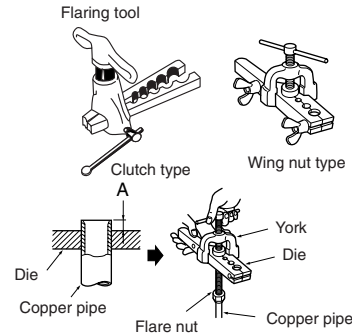


4. Flaring work

- Perform flaring work using flaring tool as shown in the right.

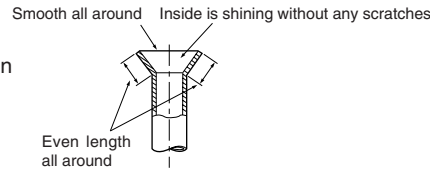
Outside diameter	A (mm)		
	Flare tool for R410A clutch type	Conventional flare tool	
		Clutch type	Wing nut type
ø6.35 mm	0 to 0.5	1.0 to 1.5	1.5 to 2.0
ø9.52 mm	0 to 0.5	1.0 to 1.5	1.5 to 2.0
ø12.7 mm	0 to 0.5	1.0 to 1.5	2.0 to 2.5
ø15.88 mm	0 to 0.5	1.0 to 1.5	—

Firmly hold copper pipe in a die in the dimension shown in the table above.



5. Check

- Compare the flared work with the figure below.
- If flare is noted to be defective, cut off the flared section and perform flaring work again.



5-3 PIPE CONNECTION

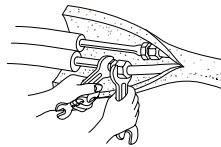
Note:

Fasten a flare nut with a torque wrench as specified in the table below. When fastened too tight, a flare nut may broken after a long period and cause a leakage of refrigerant.

1. Indoor unit connection

- Connect both liquid pipe and gas pipe to indoor unit.
 - Apply a thin coat of refrigeration oil to the seat surface of pipe.
 - For connection, align the center of both pipe and union, then tighten the first 3 to 4 turns in flare nut by hand.
 - For tightening the union part of the indoor unit side, use the table below as a standard and tighten the flare nut with two wrenches. Excessive tightening damages the flared section.

Pipe diameter	Tightening torque	
	N-m	kgf-cm
ø6.35 mm	13.7 to 17.7	140 to 180
ø9.52 mm	34.3 to 41.2	350 to 420
ø12.7 mm	49.0 to 56.4	500 to 575
ø15.88 mm	73.5 to 78.4	750 to 800



2. Outdoor unit connection

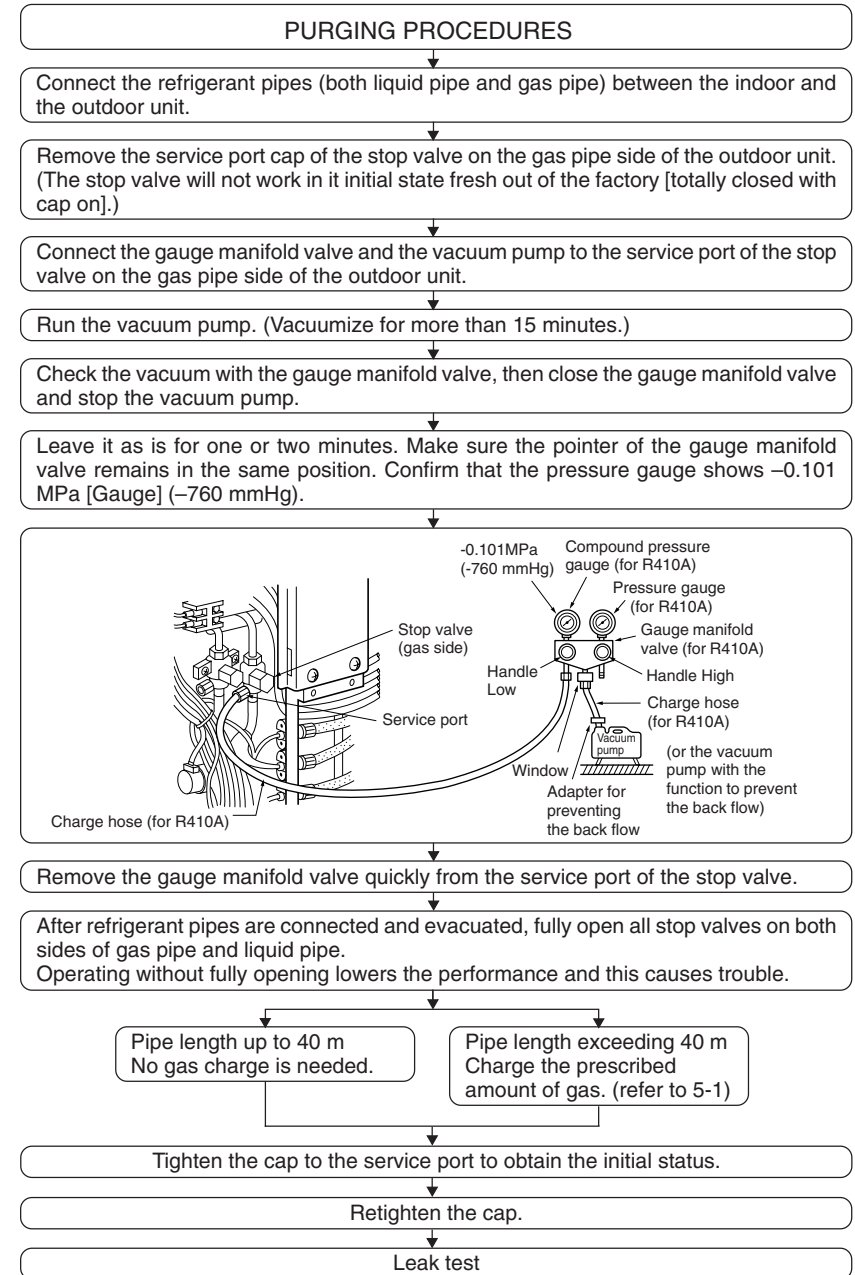
- Connect pipes to the pipe joint part of the stop valve in the same method as the indoor unit.
 - For tightening, use the same tightening torque applied for indoor unit and tighten the flare nut with torque wrench or spanner.

INSULATION AND TAPING

- Cover piping joints with pipe cover.
- For outdoor unit side, surely insulate every piping including valves.
- Using piping tape (E), apply taping starting from the entry of outdoor unit.
- Fix the end of piping tape (E) with adhesive tape.
- When piping has to be arranged through above ceiling, closet or area where the temperature and humidity are high, wind additional commercially sold insulation for prevention of condensation.

5-4 PURGING PROCEDURES • LEAK TEST

- Perform the manifold valve work securely according to the installation manual of the manifold valve.



⚠ WARNING:

When installing or moving the unit, do not mix anything other than specified refrigerant (R410A) into the refrigerating cycle. If air is mixed, it may cause the refrigerating cycle to get abnormally high temperature, causing a risk of burst.

	Tightening torque	
	N·m	kgf·cm
Cap for service port	13.7 to 17.7	140 to 180
Cap for stop valve	19.6 to 29.4	200 to 300

5-5 EARTHING WORK

Put the earth circuit to the ground in accordance with “Technical Standards for Electrical Installation”.

⚠ CAUTION:

Do not connect the earth cable to any gas pipe, water pipe, lightning rod or telephone earth cable. If there is some deficiency in earthing work, it may cause a risk of electric shock.

The product incorporates a frequency inverter and so requires earthing in order to observe electric charge and noise caused by static electricity.

5-6 CHECKING AFTER INSTALLATION

After finishing the installation, check the following items again by marking .

- Have special circuits been provided?
- Is power supply voltage as specified?
- Has indoor/outdoor connecting wire been inserted into terminal block?
- Has indoor/outdoor connecting wire been secured firmly?
- Has intermediary connection between power cable and indoor/outdoor connecting wire been carried out?
- Is combination of connection pipes and indoor/outdoor connecting wire correct (Room A, Room B, Room C, Room D)?
- Is earth cable connection correct?
- Has leak test been carried out?
- Has air purge been carried out?
- Is stop valve fully open?
- Has drain discharge been checked?
- Is insulation over connection pipe joints correct?
- Is strength of installation location well enough?
- Have all of ⚠ WARNING and ⚠ CAUTION items in “1. THE FOLLOWING SHOULD ALWAYS BE OBSERVED FOR SAFETY” been checked?

5-7 GAS CHARGE

Perform gas charge to unit.

- ① Connect gas cylinder to the service port of stop valve.
- ② Perform air purge of the pipe (or hose) coming from refrigerant gas cylinder.
- ③ Replenish specified amount of the refrigerant, while operating the air conditioner for cooling.

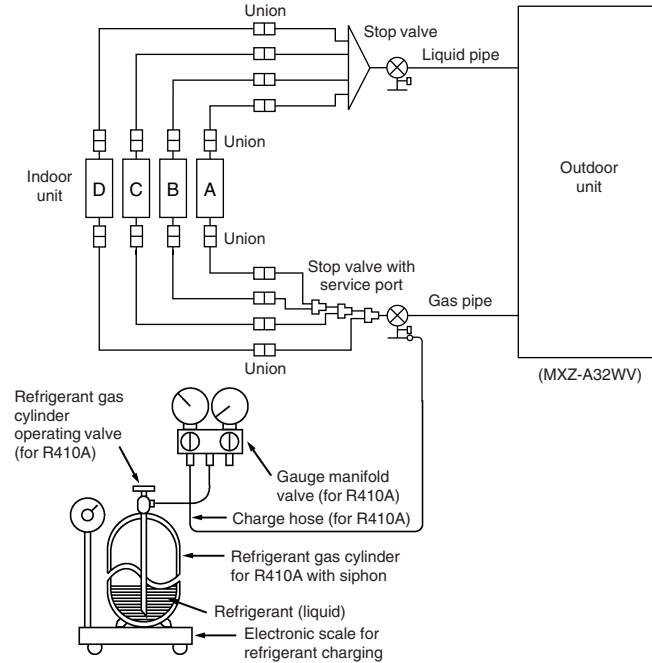
Note:

In case of adding refrigerant, comply with the quantity specified for the refrigerating cycle.

⚠ CAUTION:

For additional charging, charge the refrigerant from liquid phase of the gas cylinder. If the refrigerant is charged from the gas phase, composition change may occur in the refrigerant inside the cylinder and the outdoor unit. In this case, ability of the refrigerating cycle decreases or normal operation can be impossible. However, charging the liquid refrigerant all at once may cause the compressor to be locked. Thus, charge the refrigerant slowly.

To maintain the high pressure of the gas cylinder, warm the gas cylinder with warm water (under 40°C) during cold season. But never use naked fire or steam.



5-8 TEST RUN

- Be sure to perform the test run for each unit. Make sure each indoor unit operates properly following the installation manual attached to the unit.
- If you perform the test run for all indoor units at once, you cannot detect any erroneous connection, if any, of the refrigerant pipes and the indoor/outdoor unit connecting wires.

About the restart protective mechanism

Once the compressor stops, the restart preventive device operates so the compressor will not operate for 3 minutes to protect the air conditioner.

5-9 EXPLANATION TO THE CUSTOMER

- Recommend the customer to read the OPERATING INSTRUCTIONS carefully.
- Using the OPERATING INSTRUCTIONS for each unit, explain the following to the customer, how to control temperature, how to remove the air filters, how to remove or put the remote controller in the remote controller holder, how to clean, precautions for operation, etc.

If the customer (user) is absent, explain to the purchaser (owner, building's controller, etc) about those points.

