MITSUBISHI

Ask the dealer

If installed incor

Package Air-conditioner Optional Parts

Y-shape connection pipe (PAC-AK52YP-E)

Always observe for safety

•Carefully read this section "Always observe for safety", and securely install the optional parts •Be sure to observe the cautions described here: They include critical contents for safety.

•The following indications show the classifications for danger, and possible consequences following incorrect handling.

Incorrect handling could lead to death or serious injury. Incorrect handling could lead to injury or damage to house and household articles. •After installation, perform a test run and make sure that there is no abnormality, and ask your customer to keep this installation sheet with the instruction manual at all times. Also ask the customer to transfer these manuals to a new user if the user changes.

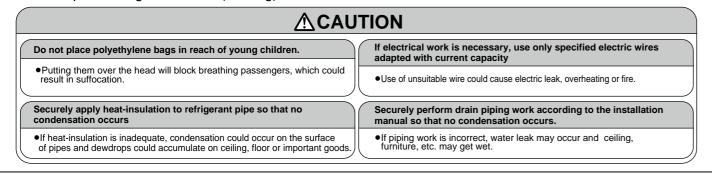
🗥 WARNING

r or specialist for information.	Carefully install the panel according to this installation sheet.	
prrectly by user, water leak, electric shock, fire, etc. could result.	Incorrect installation could cause water leak, electric shock, fire, etc.	フ

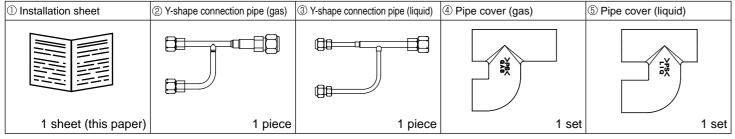
Applicable models:

MXZ 8B series

Before performing installation (moving) and electrical work.



1 The following items are included in the box. Check before starting installation.



Note) Prepare the following items in the field

(2) Extended pipe for refrigerant pipe (3) Heat insulator for flare section (1) Tape for heat insulator seal

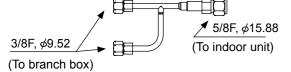
• Following is the specifications of gas pipe 2, liquid pipe 3.

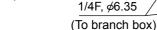
② Y-shape connection pipe (gas)

③ Y-shape connection pipe (liquid)

3/8F, ø9.52

(To indoor unit)



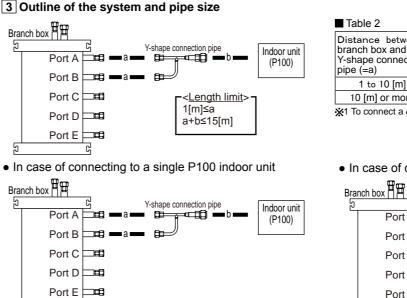


2 Be aware of the following at installation.

- 1. Observe the refrigerant pipe length specified in the appropriate installation manual of the outdoor unit.
- 2. Connect to P100 indoor units only. The other models are not available for the PAC-AK52YP-E pipe.
- 3. Connect to PAC-AK52BC branch box only. Do not connect to other branch boxes. (Table 1)
- 4. Connect to MXZ 8B-series outdoor units only. Do not connect to other outdoor units. (Table 1)
- 5. Take care that no foreign object, such as dust, enters during pipe connecting work.



Outdeen unit	Branch box			
Outdoor unit	PAC-AK52BC	PAC-AK51BC	PAC-AK31BC	
MXZ-8B series	Available	NG	NG	
MXZ-8A series	NG	NG	NG	



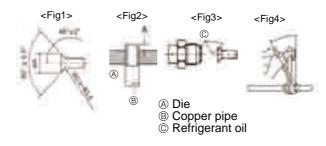
4 Connecting pipes

on the branch box.

1. Apply thin layer of refrigerant oil to the pipe and joint seating surface before tightening the flare nut. <Fig1,Table3>

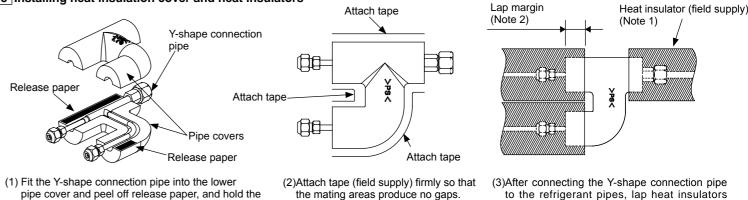
To connect a single P100 indoor unit, use port A and port B

- 2. When usual pipe sealing is used, refer to Table4 for flaring of R410A refrigerant pipes. The size adjustment gauge can be used to confirm A measurements.<Fig2. Table4>
- 3.Apply refrigerating machine oil over the entire flare seat surface.<Fig3>
- 4.Use two wrenches to tighten piping connections. <Fig 4,Table5> Then beware that the piping of refrigerant pipes to a Y-shape connection pipe and to a box has no kinks.
- 5.Use a leak detector or soapy water to check for gas leaks after connections are completed.



5 Installing heat insulation cover and heat insulators

Y-shape connection pipe between the pipe covers.



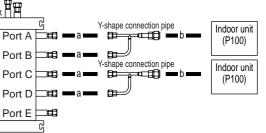
Note 1) All the refrigerant pipes (field supply) must be insulated. Use heat insulators (field supply) with a thickness of 12 mm or more. Note 2) The pipe covers slightly shrink at high temperatures, so provide some lap margin when installing heat insulators.

MITSUBISHI ELECTRIC CORPORATION

tween nd	Liquid		Gas	
nection	а	b	а	b
m]	¢6.35	ø9.52	ø9.52	¢15.88
nore	¢6.35	ø9.52	¢12.7 % 1	¢15.88

☆1 To connect a ¢12.7 gas pipe, use a joint pipe (MAC-A454JP)

• In case of connecting to two P100 indoor units



To connect two P100 indoor units, use port A and port B, and port C and port D on the branch box.

Table 3		
Pipe diameter (mm (inch))	Flare dimensions ϕ A dimensions (mm)	
ø6.35 (1/4")	8.7 - 9.1	
Ø.52 (3/8")	12.8 - 13.2	
¢12.7 (1/2")	16.2 - 16.6	
¢15.88 (5/8")	19.3 - 19.7	
Table 4		
Dina diamatar	A (mm)	
Pipe diameter (mm (inch))	Flare tool for R410A	Flare tool for R22•R407C
	Clutch type	
¢6.35 (1/4")	0 - 0.5	1.0 - 1.5
¢9.52 (3/8")	0 - 0.5	1.0 - 1.5
¢12.7 (1/2")	0 - 0.5	1.0 - 1.5
¢15.88 (5/8")	0 - 0.5	1.0 - 1.5
Table 5		
Pipe diameter (mm (inch))	Flare nut O.D. (mm)	Tightening torque (N•m)
¢6.35 (1/4")	17	14 - 18
¢6.35 (1/4")	22	34 - 42
¢9.52 (3/8")	22	34 - 42
¢9.52 (3/8")	26	49 - 61
¢12.7 (1/2")	26	49 - 61
¢12.7 (1/2")	29	68 - 82
¢15.88 (5/8")	29	68 - 82
¢15.88 (5/8")	36	100 - 120

1(N•m)≈10 kaf•cm

(3)After connecting the Y-shape connection pipe to the refrigerant pipes, lap heat insulators covering the refrigerant pipes over the pipe covers by approx 10 to 15 mm