

OUTDOOR UNIT BRANCH PIPE INSTALLATION MANUAL

Thank you very much for purchasing our air conditioner, Before using your air conditioner, please read this manual carefully and keep it for future reference.

Branch List

Name	Gas side joints	Liquid side joints	Gas balance joint 1	Gas balance joint 2	Oil balance	Heat insulation material
SYSVRF JOINT OUT 02 HP						(2 sets)
SYSVRF JOINT OUT 03 HP						(4 sets)
SYSVRF JOINT OUT 04 HP						(6 sets)

Choice

Branch pipes for outdoor unit Table 2

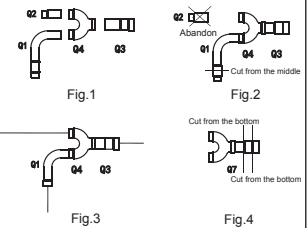
Quantity of outdoor units	Branch pipe
2	SYSVRF JOINT OUT 02 HP
3	SYSVRF JOINT OUT 03 HP
4	SYSVRF JOINT OUT 04 HP

Size of joint pipes for R410A outdoor unit Table 3

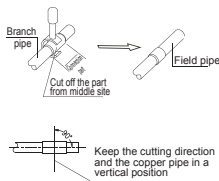
Model	When the equivalent length of all liquid pipes < 50m, the size of main pipes(mm)		When the equivalent length of all liquid pipes > 50m, the size of main pipes(mm)	
	Gas side	Liquid side	Gas side	Liquid side
8HP	Φ22.2	Φ9.53	Φ22.2	Φ12.7
10HP	Φ22.2	Φ9.53	Φ25.4	Φ12.7
12~14HP	Φ25.4	Φ12.7	Φ28.6	Φ15.9
16HP	Φ28.6	Φ12.7	Φ31.8	Φ15.9
18~22HP	Φ28.6	Φ15.9	Φ31.8	Φ19.1
24HP	Φ28.6	Φ15.9	Φ31.8	Φ19.1
26~34HP	Φ31.8	Φ19.1	Φ38.1	Φ22.2
36~50HP	Φ38.1	Φ19.1	Φ38.1	Φ22.2
52~66HP	Φ41.2	Φ22.2	Φ44.5	Φ25.4
68~88HP	Φ44.5	Φ25.4	Φ50.8	Φ25.4

Installation Notices

- Select the proper branch model according to table2.
- According to the actual piping size and cut off the needless parts with special tools such as cutter, take the SYSVRF JOINT OUT 02 HP gas side for example and the operating steps as follow:
 - When selecting model SYSVRF JOINT OUT 02 HP, the actual object as display in Fig.1, and then suppose that the outlet pipe of the machine isΦ31.8, main pipe isΦ38.1. As display in Fig.2, cut the standalone connecting pipe Q1 of the branch pipe component.
 - As display in Fig.2, weld the standalone connecting pipe Q1, Q3 with the U-shape three direct links & Q4: abandon the standalone connecting pipe Q2 because selected pipe sizeΦ31.8 can directly connect with the un-welded side of U-shape three direct links.
 - As display in Fig.3, weld the branch pipe components with the field pipes.
- Particularly notice the followings:
 - When the actual pipe size matches with the un-welded side of U-shape three direct links, weld the pipe with the U-shape three direct links.
 - For the connecting pipes Q3 and Q7, if they need to be cut, please cut in the bottom of the flaring as display in Fig. 4.

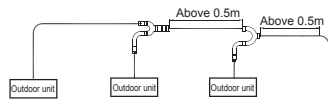


Incision



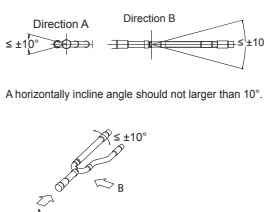
Installation Precaution

- Pay attention to the distance of straight horizontal pipe.



- The straight horizontal pipe's distance between two adjacent branch pipes should ≥ 0.5m.
- The straight horizontal pipe's distance which outdoor unit connecting behind the branch pipe should ≥ 0.5m.

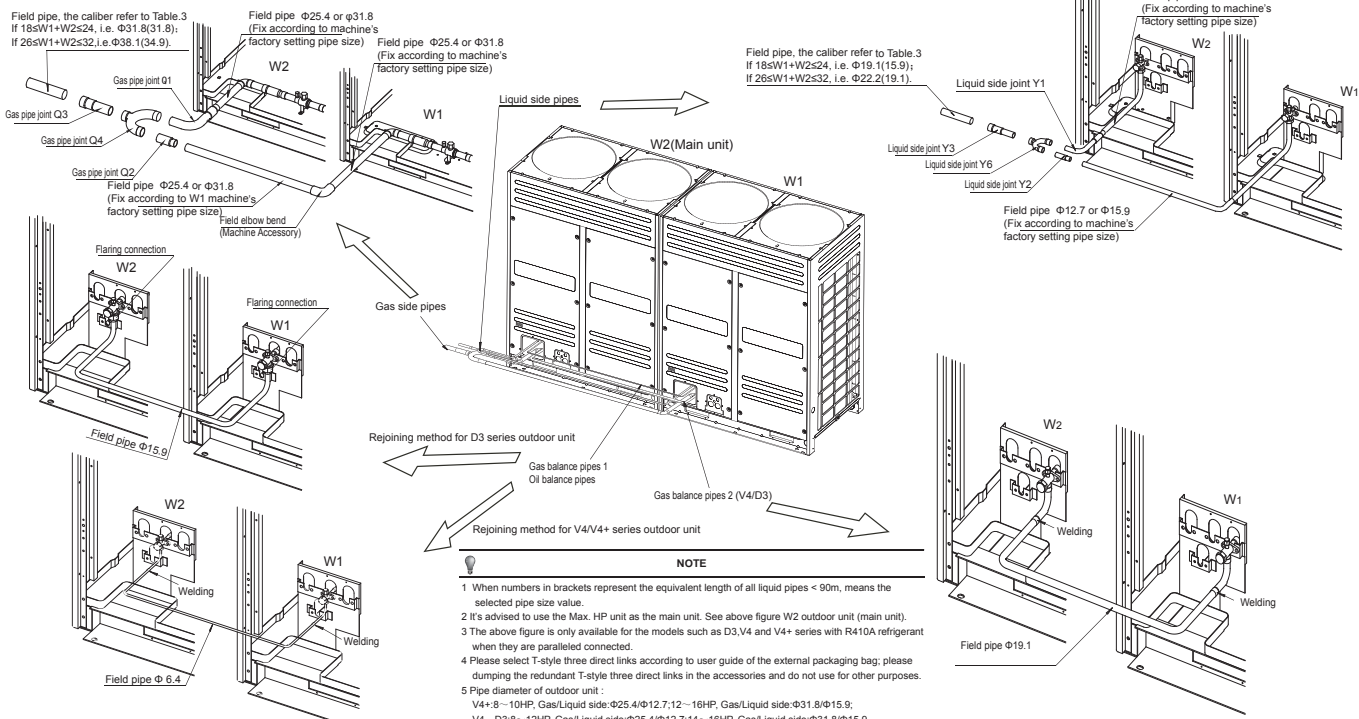
Horizontally Placing Branch Pipe



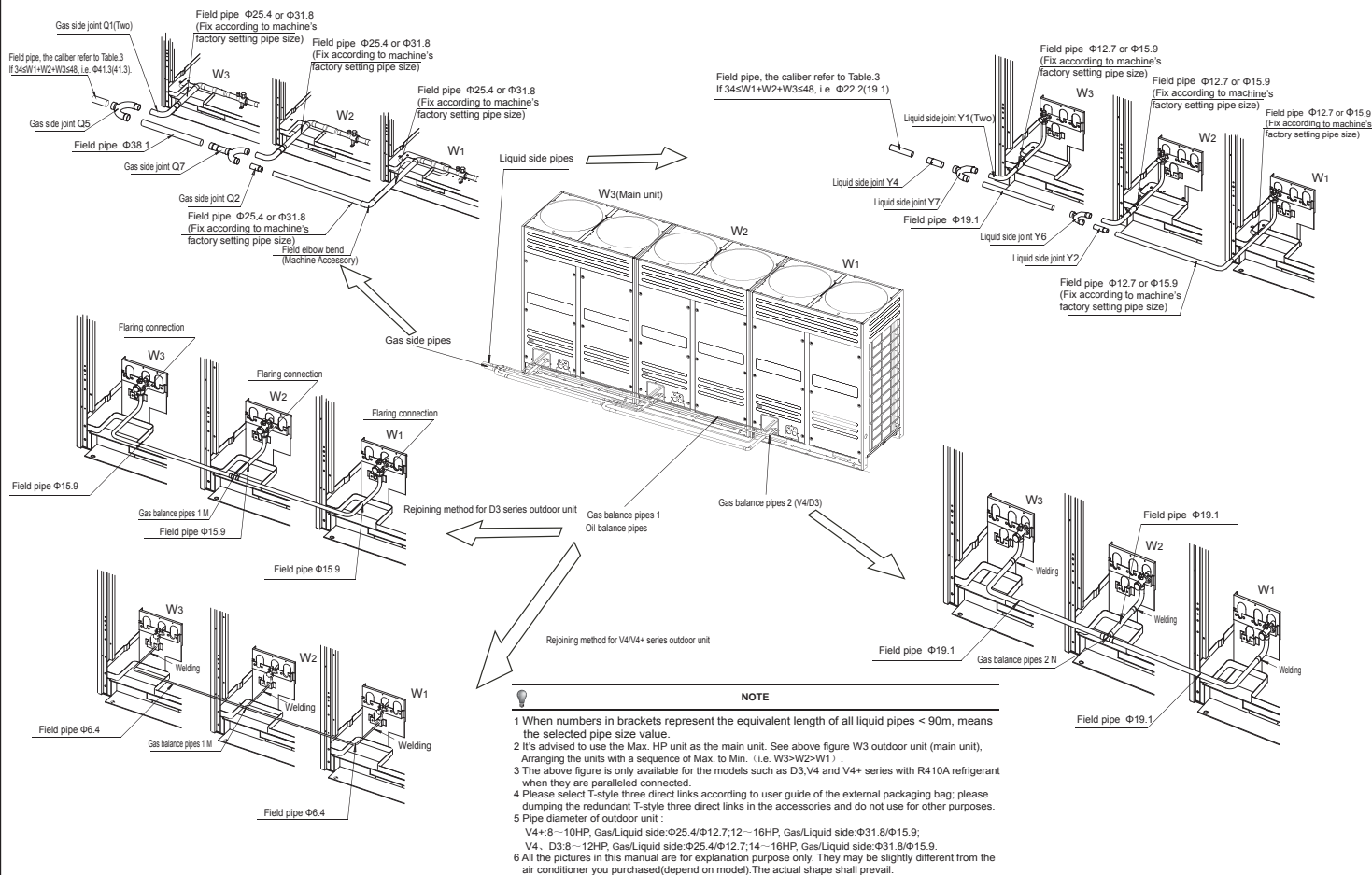
Heat insulation

- Be sure to insulate the branches against heat.
- Example of connected branch.
 - Use the supplied heat insulation material to insulate the branches against heat.
 - Apply the heat insulation material and seal all connections with tape.

Appearance And Connection Sketch Of SYSVRF JOINT OUT 02 HP



Appearance And Connection Sketch Of SYSRVF JOINT OUT 03 HP



Appearance And Connection Sketch Of SYSRVF JOINT OUT 04 HP

