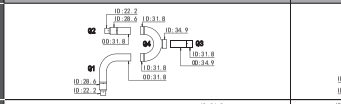
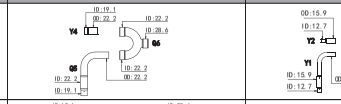
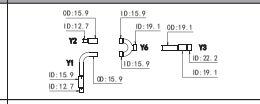
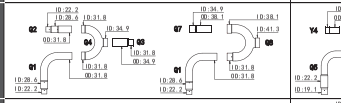
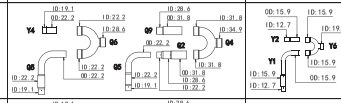
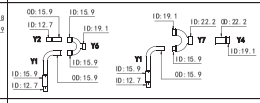
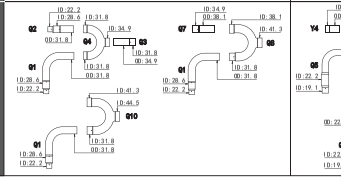
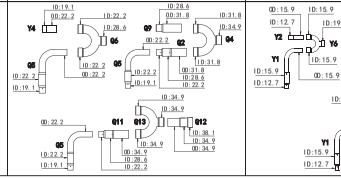
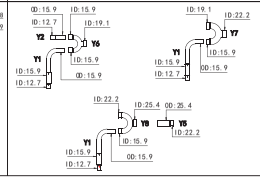
OUTDOOR UNIT BRANCH PIPE INSTALLATION MANUAL

MD13I-022DW
20200017309

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

Table.1

Name	Low-pressure gas side joints	High-pressure gas side joints	Liquid side joints	Gas balance joint	Oil balance	Heat insulation material
FQZHW-02SB						(3 sets)
FQZHW-03SB				N	P	(6 sets)
FQZHW-04SB				N(2)	P(2)	(9 sets)

Choice

Branch pipes for outdoor unit

Table.2

Quantity of outdoor units	Branch pipe
2	FQZHW-02SB
3	FQZHW-03SB
4	FQZHW-04SB

Pipe Size

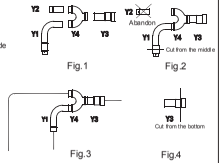
Size of joint pipes for R410A outdoor unit

Table.3

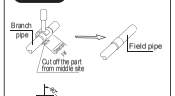
Capacity for outdoor unit	When the equivalent length of all liquid pipes < 90m			When the equivalent length of all liquid pipes ≥ 90m		
	Low-pressure gas side (mm)	High-pressure gas side (mm)	Liquid side (mm)	Low-pressure gas side (mm)	High-pressure gas side (mm)	Liquid side (mm)
8HP	Φ22.2	Φ19.1	Φ9.5	Φ22.2	Φ19.1	Φ12.7
10HP	Φ22.2	Φ19.1	Φ12.7	Φ22.2	Φ19.1	Φ12.7
12, 14HP	Φ25.4	Φ19.1	Φ12.7	Φ25.4	Φ19.1	Φ15.9
16HP	Φ28.6	Φ22.2	Φ15.9	Φ28.6	Φ22.2	Φ15.9
18~20HP	Φ31.8	Φ28.6	Φ15.9	Φ31.8	Φ28.6	Φ19.1
24HP	Φ34.9	Φ28.6	Φ15.9	Φ34.9	Φ28.6	Φ19.1
26~32HP	Φ34.9	Φ28.6	Φ19.1	Φ34.9	Φ28.6	Φ22.2
34~48HP	Φ41.3	Φ34.9	Φ19.1	Φ41.3	Φ34.9	Φ22.2
50~64HP	Φ44.5	Φ38.1	Φ22.2	Φ44.5	Φ38.1	Φ25.4

Installation Notices

1)Select the proper branch model according to table2.
2)According to the actual piping size and cut off the needless parts with special tools such as cutter, take the FQZHW-02SB liquid side for example and the operating steps as follow:
a.When selecting model FQZHW-02SB , the actual object as display in Fig.1, and then suppose that the outlet pipe of the machine is Φ15.9 , main pipe is Φ22.2. As display in Fig.2, cut the standalone connecting pipe Y1 of the branch pipe component.
b.As display in Fig.2, weld the standalone connecting pipe Y1, Y3 with the U-shape three direct links Y4; abandon the standalone connecting pipe Y2 because selected pipe size Φ15.9 can directly connect with the un-welded side of U-shape three direct links.
c.As display in Fig.3, weld the branch pipe components with the field pipes.
3)Particularly notice the followings:
a.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.
b.For the connecting pipes Y3, if they need to be cut, please cut in the bottom of the flaring as display in Fig. 4.

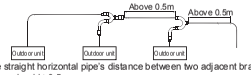


Incision



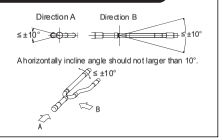
Installation Precaution

1) Pay attention to the distance of straight horizontal pipe.



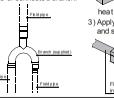
a.The straight horizontal pipe's distance between two adjacent branch pipes should ≥0.5m.
b.The straight horizontal pipe's distance which outdoor unit connecting behind the branch pipe should ≥0.5m.

Horizontally Placing Branch Pipe

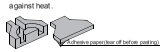


Heat insulation

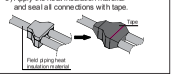
Be sure to insulate the brahches against heat.
1) Example of connected branch.



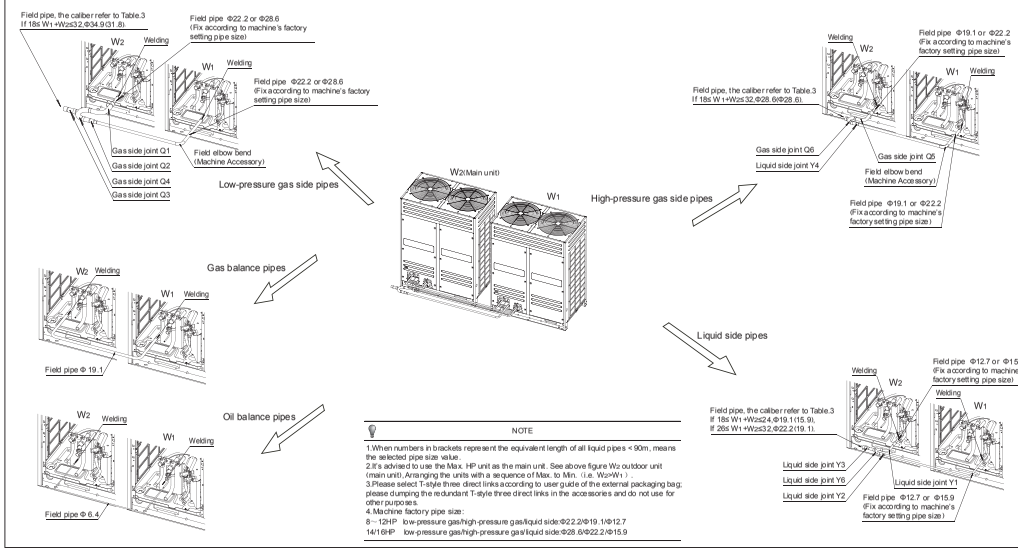
2) Use the supplied heat insulation material to insulate the branches against heat.



heat insulation material(supplied)
3) Apply the heat insulation material and seal all connections with tape.



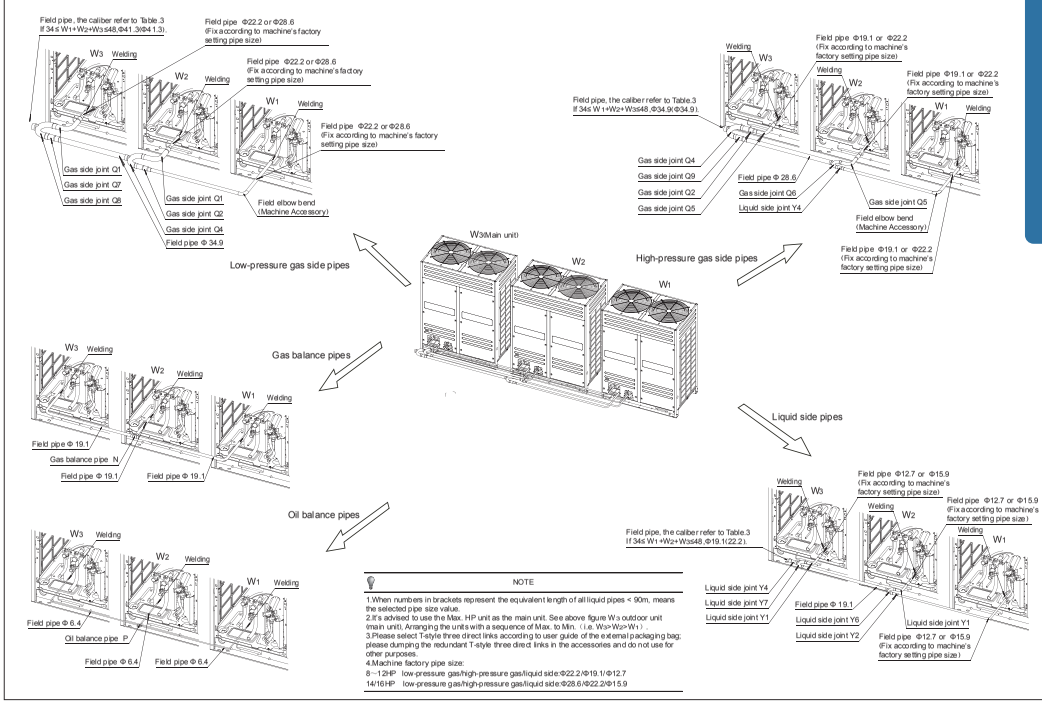
Appearance And Connection Sketch Of FQZHW-02SB



NOTE

1.When numbers in brackets represent the equivalent length of all liquid pipes < 90m, means the selected pipe size value.
2.It's advised to use the Max. HP unit as the main unit. See above figure W2 outdoor unit (main unit). Arranging the units with a sequence of Max. to Min. (i.e. W2≥W1).
3.Please select T-style three direct links according to user guide of the external packaging bag; please dumping the redundant T-style three direct links in the accessories and do not use for other purposes.
4.Machine factory pipe size:
8~12HP low-pressure gas/high-pressure gas/liquid side:Φ22.2/Φ19.1/Φ12.7
14/16HP low-pressure gas/high-pressure gas/liquid side:Φ28.6/Φ22.2/Φ15.9

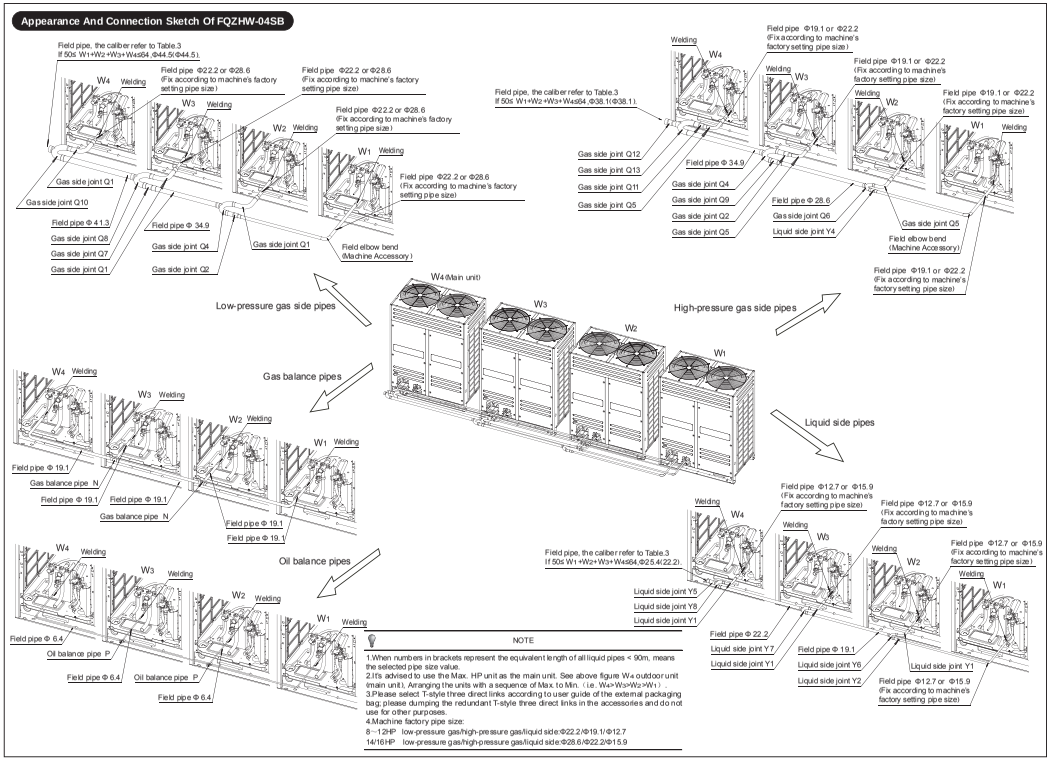
Appearance And Connection Sketch Of FQZHW-03SB



NOTE

1.When numbers in brackets represent the equivalent length of all liquid pipes < 90m, means the selected pipe size value.
2.It's advised to use the Max. HP unit as the main unit. See above figure W outdoor unit (main unit). Arranging the units with a sequence of Max. to Min. (i.e. W≥W1≥W2≥W3).
3.Please select T-style three direct links according to user guide of the external packaging bag; please dumping the redundant T-style three direct links in the accessories and do not use for other purposes.
4.Machine factory pipe size:
8~12HP low-pressure gas/high-pressure gas/liquid side:Φ22.2/Φ19.1/Φ12.7
14/16HP low-pressure gas/high-pressure gas/liquid side:Φ28.6/Φ22.2/Φ15.9

Appearance And Connection Sketch Of FQZHW-04SB



NOTE

1.When numbers in brackets represent the equivalent length of all liquid pipes < 90m, means the selected pipe size value.
2.It's advised to use the Max. HP unit as the main unit. See above figure W4 outdoor unit (main unit). Arranging the units with a sequence of Max. to Min. (i.e. W4≥W≥W2≥W3).
3.Please select T-style three direct links according to user guide of the external packaging bag; please dumping the redundant T-style three direct links in the accessories and do not use for other purposes.
4.Machine factory pipe size:
8~12HP low-pressure gas/high-pressure gas/liquid side:Φ22.2/Φ19.1/Φ12.7
14/16HP low-pressure gas/high-pressure gas/liquid side:Φ28.6/Φ22.2/Φ15.9

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