

Installation Instruction of Indoor Manifold

Figure Number : A-GZM05Eng-0
Material Code : 802000190087

Please read this manual carefully before installation and install according to the instruction.

Component List

Accessory box name	Manifold assembly for gas side	Manifold assembly for liquid side	Reducing pipe for gas side	Reducing pipe for liquid side
SP-FQG-N01A				
SP-FQG-N02A				
SP-FQG-N03A				
SP-FQG-N04A				
SP-FQG-N05A				
SP-FQG-N06A				
SP-FQG-N07A				
SP-FQG-N08A				
SP-FQG-N09A				
SP-FQG-N10A				

Selection for R410A Type

The capacity of downstream indoor units counted by nominal cooling capacity (kW)	Gas side specification (mm)	Liquid side specification (mm)	Accessory box number
$W < 6.5$	$\Phi 12.7$	$\Phi 9.52$	SP-FQG-N01A
$6.5 \leq W < 9$	$\Phi 15.88$	$\Phi 9.52$	SP-FQG-N02A
$9 \leq W < 17$	$\Phi 19.05$		
$17 \leq W < 28$	$\Phi 22.2$	$\Phi 12.7$	SP-FQG-N03A
$28 \leq W < 33.5$	$\Phi 25.4$		SP-FQG-N04A
$33.5 \leq W < 40$	$\Phi 28.6$	$\Phi 15.88$	SP-FQG-N05A
$40 \leq W < 53.2$	$\Phi 28.6$		
$53.2 \leq W < 68$	$\Phi 31.8$	$\Phi 15.88$	SP-FQG-N06A
$68 \leq W < 73$	$\Phi 34.9$		
$73 \leq W < 96$	$\Phi 34.9$	$\Phi 19.05$	SP-FQG-N07A
$96 \leq W \leq 135$	$\Phi 41.3$	$\Phi 19.05$	
$W > 135$	$\Phi 44.5$	$\Phi 22.2$	SP-FQG-N08A
Tube from the outdoor unit to the indoor first manifold	$\Phi 38.1 / \Phi 41.3$	$\Phi 22.2$	SP-FQG-N09A
Tube from the outdoor unit to the indoor first manifold	$\Phi 44.5$	$\Phi 25.4$	SP-FQG-N10A

Essentials for Cutting

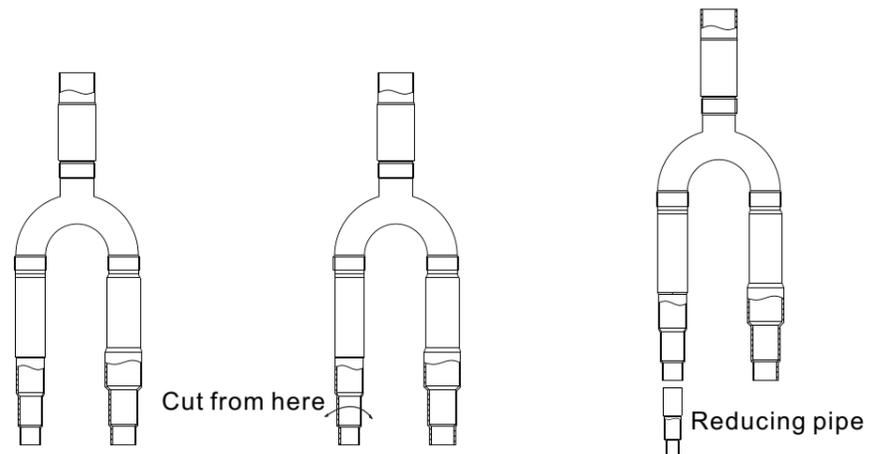
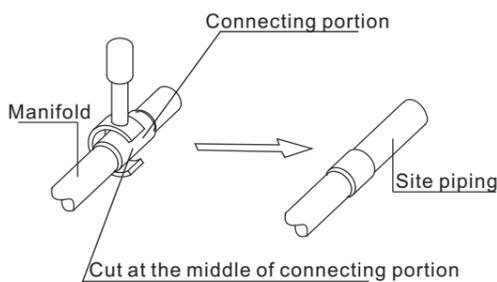


Figure 1

Figure 2

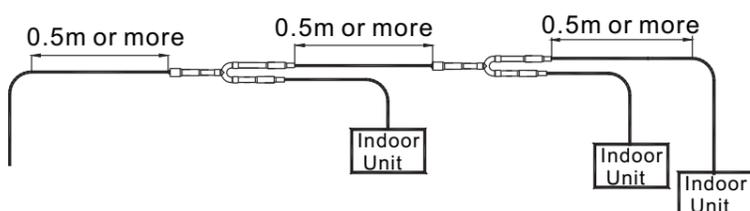
Figure 3

Instruction for Installation

- The manifold type shall be selected according to the designed model selection guide based on the capacity of downstream indoor unit.
- The undesired part shall be cut off by dedicated tools (such as cutters) in accordance with the actual tube caliber size, taking SP-FQG-N04A manifold for gas side as example, the sequence of operation are as follows:
 - After the selection of SP-FQG-N04A type, the obtained actual object as shown in Figure 1, supposing the tubing we presently use is $\Phi 19.05$, the welded pipe of the manifold assembly shall be cut according to the Figure 2.
 - The manifold assembly shall be welded with the tube at site.
- Special attention shall be paid to the treatment of the following special circumstances:
 - When there is no caliber needed for installation of the manifold assembly of the accessory box, then the independent reducing pipe in the accessory box is needed as assistance.
 - Regarding to the un-welded reducing pipe of SP-FQG-N04A, it shall be welded with the matching port of the manifold assembly according to Figure 3.

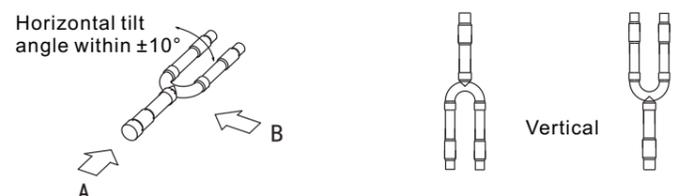
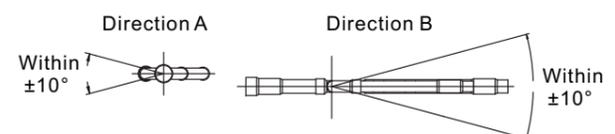
Notes

- Pay attention to the distance of horizontal straight pipe.



- The distance of the horizontal straight pipe between the copper pipe turning place and the neighboring manifold shall be $\geq 0.5\text{m}$.
- The distance of the horizontal straight pipe between the two neighboring manifolds shall be $\geq 0.5\text{m}$.
- The distance of horizontal straight pipe connecting the indoor unit after the manifold shall be $\geq 0.5\text{m}$.

- Pay attention to placement horizontally and vertically.



技术要求:

1. 说明书用100gA3双胶纸正反打印，打印完后对半折成A4纸。
2. 符合ROHS要求。