

# 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

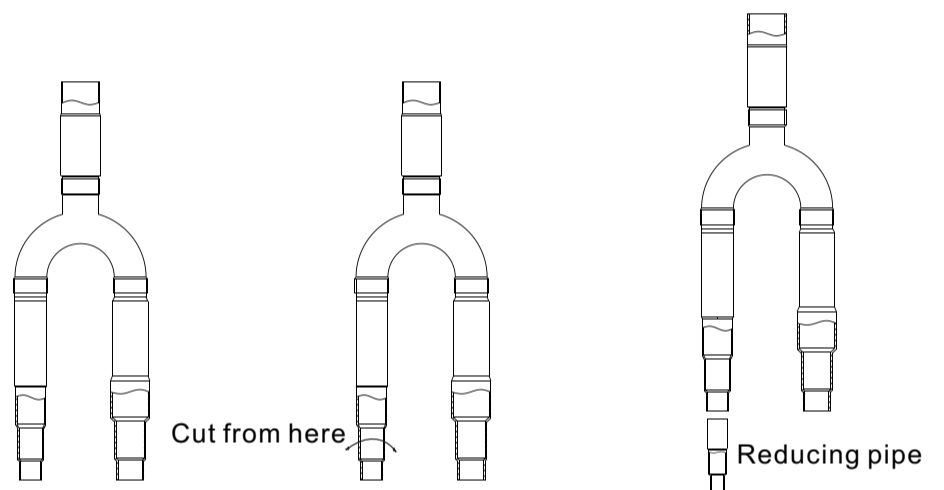
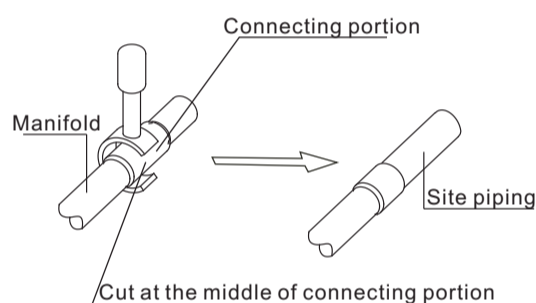


Figure 1

Figure 2

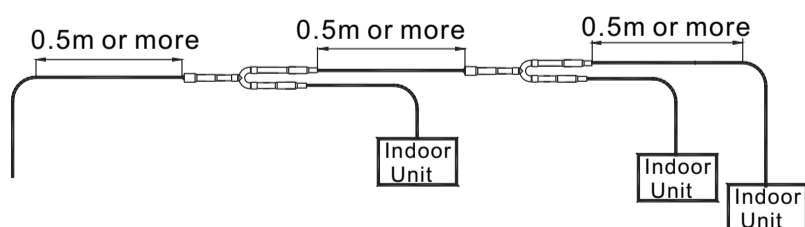
Figure 3

## 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.

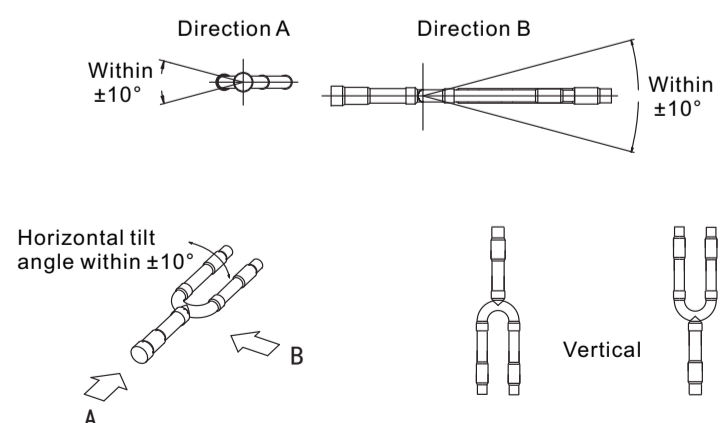
## Notes

- 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。