

INSTALLATION INSTRUCTION

Branching Header/Branching Joint (Only for R410A)

MODEL:
RBM-HY1043FE
RBM-HY1083FE

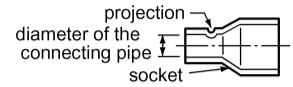
Branching Joint
RBM-BY54FE
RBM-BY104FE

Please read "Safety Cautions" described in the Installation Manual of the Air Conditioner.

- Check the following parts in the package.
- For piping material and size of the refrigerant pipes, refer to the Installation Manual of the Air Conditioner.

PARTS

- NOTE : 1. All dimensions are in millimeters. In the following tables, () indicates diameter of the indicated position, and others indicate diameter of the connecting pipe.
2. Please connect pipe to the side with a projection of the socket. (⑤②⑤④⑦⑩⑧⑨ : without projection)
3. The branching pipe suction of gas side and discharge gas side are classified with the name label. when you connect the branching pipe, please confirm the name label so as not to make a mistake.



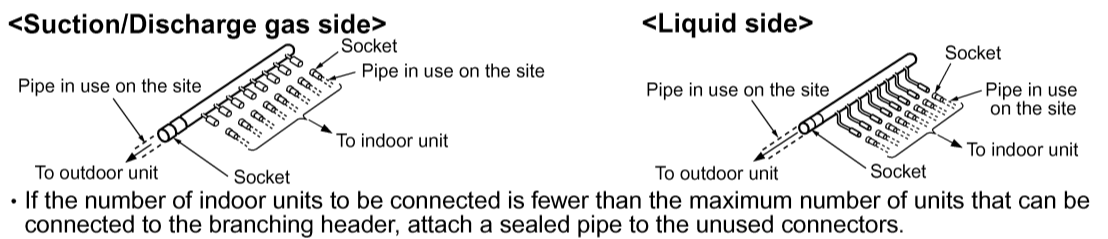
MODEL	RBM-HY1043FE	RBM-HY1083FE
NAME		
Suction gas side	1pc	1pc
Discharge gas side	1pc	1pc
Liquid side	1pc	1pc
Heat insulator (suction gas side/discharge gas side/liquid side)	1pc each	1pc each
Socket	No.	No.
Suction gas side	⑭ $\phi 15.9 \times (\phi 22.2) 1pc$	⑩⑥ $\phi 9.5 \times (\phi 15.9) 3pcs$
	⑰ $\phi 28.6 \times (\phi 22.2) 1pc$	⑩⑨ $\phi 12.7 \times (\phi 15.9) 4pcs$
Discharge gas side	⑤② $\phi 12.7 \times (\phi 22.2) 1pc$	⑧⑨ $\phi 9.5 \times (\phi 15.9) 4pcs$
	⑧⑩ $\phi 19.1 \times (\phi 22.2) 1pc$	⑧⑨ $\phi 12.7 \times (\phi 15.9) 4pcs$
Liquid side	⑩⑥ $\phi 9.5 \times (\phi 15.9) 1pc$	⑩⑦ $\phi 6.4 \times (\phi 9.5) 4pcs$
	⑩⑨ $\phi 12.7 \times (\phi 15.9) 1pc$	⑩⑧ $\phi 9.5 \times (\phi 15.9) 1pc$
Outlet sealed pipe at suction gas side		($\phi 15.9$) 1pc
Outlet sealed pipe at discharge gas side		($\phi 15.9$) 3pcs
Outlet sealed pipe at liquid side		($\phi 9.5$) 1pc
Header sealed pipe at liquid side		($\phi 15.9$) 1pc

MODEL	RBM-BY54FE	RBM-BY104FE
NAME		
Suction gas side	1pc	1pc
Discharge gas side	1pc	1pc
Liquid side	1pc	1pc
Heat insulator (suction gas side/discharge gas side/liquid side)	1pc each	1pc each
Socket	No.	No.
Suction gas side	⑩⑤ $\phi 9.5 \times (\phi 12.7) 2pcs$	⑦⑩ $\phi 28.6 \times (\phi 22.2) 1pc$
	⑤④ $\phi 15.9 \times (\phi 12.7) 2pcs$	⑦⑩ $\phi 9.5 \times (\phi 19.1) 1pc$
Discharge gas side	⑩⑤ $\phi 9.5 \times (\phi 12.7) 2pcs$	⑩⑩ $\phi 12.7 \times (\phi 19.1) 1pc$
	⑤④ $\phi 15.9 \times (\phi 12.7) 1pc$	⑩③ $\phi 15.9 \times (\phi 19.1) 2pcs$
Liquid side	⑩⑦ $\phi 6.4 \times (\phi 9.5) 2pcs$	⑩② $\phi 6.4 \times (\phi 12.7) 1pc$
	⑩⑧ $\phi 9.5 \times (\phi 12.7) 1pc$	⑩⑤ $\phi 9.5 \times (\phi 12.7) 2pcs$
Outlet sealed pipe at suction gas side		($\phi 19.1$) 1pc
Outlet sealed pipe at discharge gas side		($\phi 19.1$) 1pc
Outlet sealed pipe at liquid side		($\phi 12.7$) 1pc
Header sealed pipe at liquid side		($\phi 12.7$) 1pc

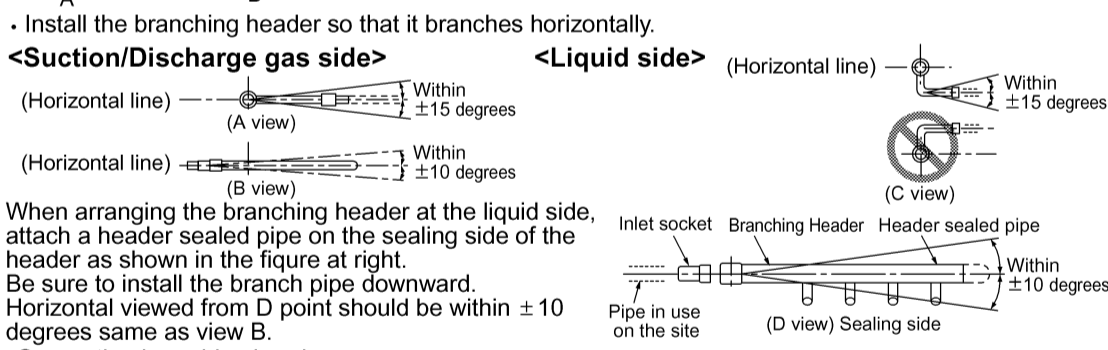
CONNECTING METHOD

- Select and install the socket that matches the diameter of a pipe to be connected to the indoor unit.
- The branching pipe suction gas side and discharge gas side are classified with the name label. Please confirm the name label so as not to make a mistake.

Branching Header

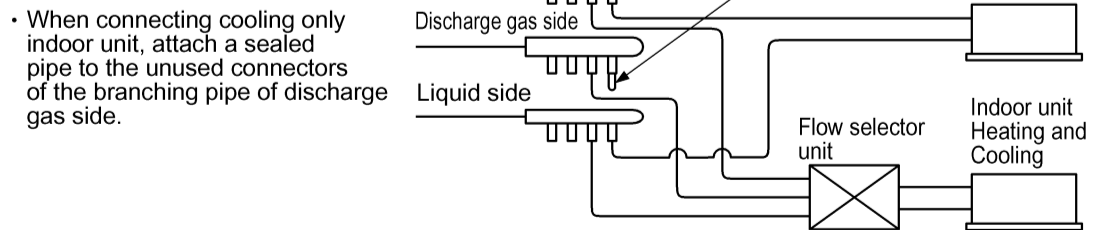


- If the number of indoor units to be connected is fewer than the maximum number of units that can be connected to the branching header, attach a sealed pipe to the unused connectors.



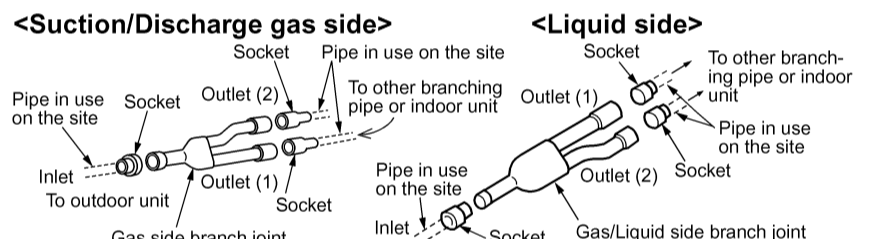
- Install the branching header so that it branches horizontally.
- Supporting branching header
After applying the insulation, set the hanging metals as support. (in use on the site).

Example of the connection method to indoor unit

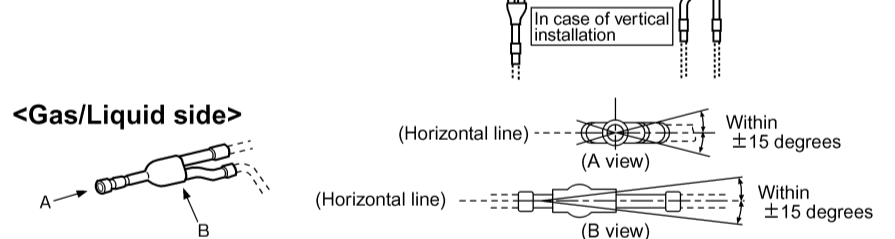


- When connecting cooling only indoor unit, attach a sealed pipe to the unused connectors of the branching pipe of discharge gas side.

Branching Joint

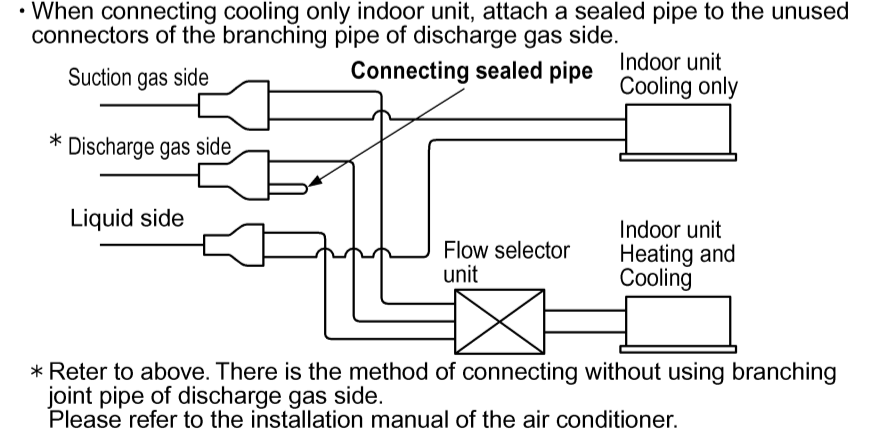


- Installation direction of branch pipe
Install the branching pipes so that it branch either vertically or horizontally.



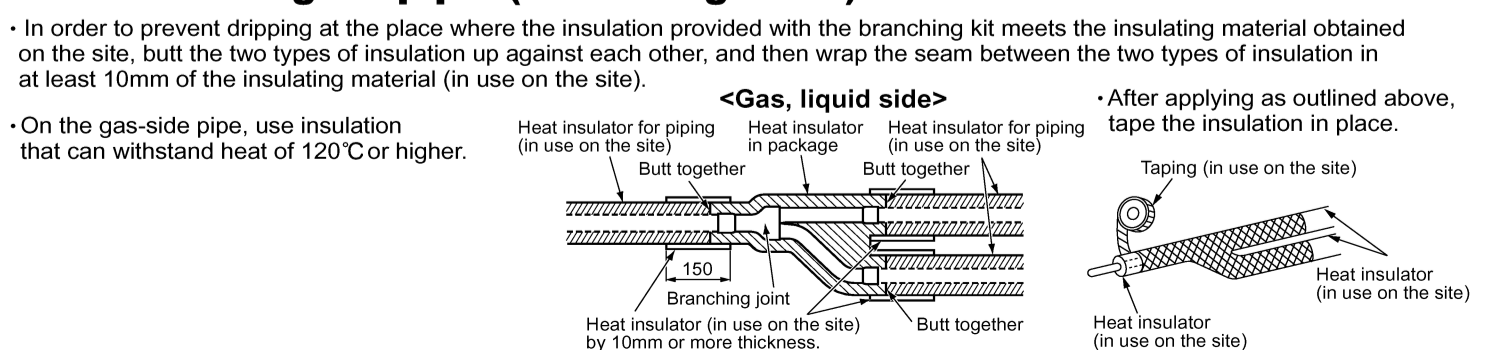
- NOTE :
Install the branch pipes horizontally or vertically so that they branch evenly.
Install the branching joint within ± 15 degrees.

Example of the connection method to indoor unit



- * Refer to above. There is the method of connecting without using branching joint pipe of discharge gas side. Please refer to the installation manual of the air conditioner.

Heat insulating for pipes(Branching Joint)



- In order to prevent dripping at the place where the insulation provided with the branching kit meets the insulating material obtained on the site, butt the two types of insulation up against each other, and then wrap the seam between the two types of insulation in at least 10mm of the insulating material (in use on the site).
- On the gas-side pipe, use insulation that can withstand heat of 120°C or higher.

- After applying as outlined above, tape the insulation in place.

REQUIREMENT

Condensation may occur on the heat insulator according to the atmosphere inside of the ceiling. If the inside of the ceiling is subject to high temperature and high humidity, please add the glass wool (16 to 20 kg/m³, 10mm thick or more) on the heat insulator described above for the perfect heat insulation.