

# INSTALLATION MANUAL

## Branching Header (For R410A and R32)

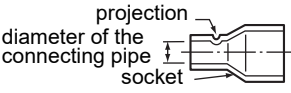
Please read “Safety Cautions” described in the Installation Manual of the Air Conditioner.

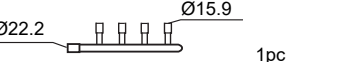
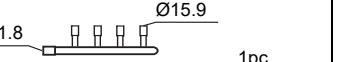
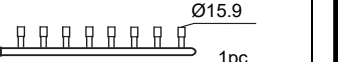
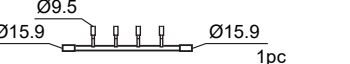
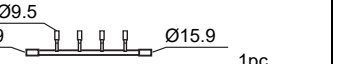
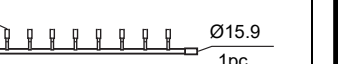
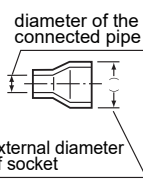
- Check the following parts in the package.
- For piping material and size of the refrigerant pipes, refer to the Installation Manual of the Air Conditioner.

MODEL:  
Branching Header  
RBM-HY1043E RBM-HY1083E  
RBM-HY2043E RBM-HY2083E

### 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. (㉔, ㉕, ㉗, ㉘, ㉚, ㉛, ㉝, ㉞, ㉟, ㊱, ㊲, ㊳: without projection)

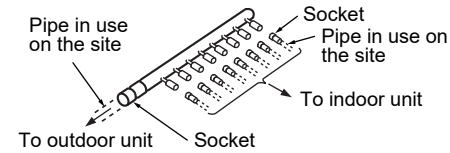


| NAME                                  |             | MODEL                                                                             |     | RBM-HY1043E                                                                       |                   |                     |                     | RBM-HY1083E                                                                        |                   |                     |                     | RBM-HY2043E                                                                         |                     |                     |                     | RBM-HY2083E                                                                         |                     |                     |                     |
|---------------------------------------|-------------|-----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|-------------------|---------------------|---------------------|------------------------------------------------------------------------------------|-------------------|---------------------|---------------------|-------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|
| Branching pipe gas side               |             |                                                                                   |     |  |                   |                     |                     |  |                   |                     |                     |  |                     |                     |                     |  |                     |                     |                     |
| Branching pipe liquid side            |             |                                                                                   |     |  |                   |                     |                     |  |                   |                     |                     |  |                     |                     |                     |  |                     |                     |                     |
| Heat insulator (gas side/liquid side) |             |                                                                                   |     |  |                   |                     |                     |  |                   |                     |                     |  |                     |                     |                     |  |                     |                     |                     |
| Socket                                | Gas side    |  | No. |                                                                                   | No.               |                     | No.                 |                                                                                    | No.               |                     | No.                 |                                                                                     | No.                 |                     | No.                 |                                                                                     |                     |                     |                     |
|                                       |             |                                                                                   | ㉔   | Ø15.9×(Ø22.2) 1pc                                                                 | ㉚                 | Ø 9.5 ×(Ø15.9) 4pcs | ㉔                   | Ø15.9×(Ø22.2) 1pc                                                                  | ㉚                 | Ø 9.5 ×(Ø15.9) 8pcs | ㉔                   | Ø28.6×(Ø31.8) 1pc                                                                   | ㉚                   | Ø 9.5 ×(Ø15.9) 2pcs | ㉔                   | Ø28.6×(Ø31.8) 1pc                                                                   | ㉚                   | Ø 9.5 ×(Ø15.9) 7pcs |                     |
|                                       | Liquid side |                                                                                   | ㉕   | Ø19.1×(Ø22.2) 1pc                                                                 | ㉛                 | Ø12.7×(Ø15.9) 4pcs  | ㉕                   | Ø19.1×(Ø22.2) 1pc                                                                  | ㉛                 | Ø12.7×(Ø15.9) 8pcs  | ㉕                   | Ø34.9×(Ø31.8) 1pc                                                                   | ㉛                   | Ø12.7×(Ø15.9) 2pcs  | ㉕                   | Ø34.9×(Ø31.8) 1pc                                                                   | ㉛                   | Ø12.7×(Ø15.9) 7pcs  |                     |
|                                       |             |                                                                                   | ㉗   | Ø28.6×(Ø22.2) 1pc                                                                 | ㉝                 | Ø12.7×(Ø22.2) 1pc   | ㉗                   | Ø28.6×(Ø22.2) 1pc                                                                  | ㉝                 | Ø12.7×(Ø22.2) 1pc   | ㉗                   | Ø22.2×(Ø31.8) 1pc                                                                   | ㉝                   | Ø22.2×(Ø31.8) 1pc   | ㉗                   | Ø19.1×(Ø15.9) 1pc                                                                   | ㉝                   | Ø19.1×(Ø15.9) 1pc   | ㉗                   |
|                                       |             |                                                                                   |     | ㉙                                                                                 | Ø12.7×(Ø15.9) 1pc | ㉟                   | Ø 6.4 ×(Ø 9.5) 4pcs | ㉙                                                                                  | Ø12.7×(Ø15.9) 1pc | ㉟                   | Ø 6.4 ×(Ø 9.5) 8pcs | ㉙                                                                                   | Ø 19.1 ×(Ø15.9) 1pc | ㉟                   | Ø 6.4 ×(Ø 9.5) 2pcs | ㉙                                                                                   | Ø 19.1 ×(Ø15.9) 1pc | ㉟                   | Ø 6.4 ×(Ø 9.5) 7pcs |
|                                       |             |                                                                                   |     | ㊱                                                                                 | Ø12.7×(Ø15.9) 1pc | ㊱                   | Ø12.7×(Ø15.9) 1pc   | ㊱                                                                                  | Ø12.7×(Ø15.9) 1pc | ㊱                   | Ø12.7×(Ø15.9) 1pc   | ㊱                                                                                   | Ø12.7×(Ø15.9) 1pc   | ㊱                   | Ø12.7×(Ø15.9) 1pc   | ㊱                                                                                   | Ø12.7×(Ø15.9) 1pc   | ㊱                   | Ø12.7×(Ø15.9) 1pc   |
| Outlet sealed pipe at gas side        |             |                                                                                   |     |                                                                                   |                   |                     |                     |                                                                                    |                   |                     |                     |                                                                                     |                     |                     |                     |                                                                                     |                     |                     |                     |
| Header sealed pipe at liquid side     |             |                                                                                   |     |                                                                                   |                   |                     |                     |                                                                                    |                   |                     |                     |                                                                                     |                     |                     |                     |                                                                                     |                     |                     |                     |
| Outlet sealed pipe at liquid side     |             |                                                                                   |     |                                                                                   |                   |                     |                     |                                                                                    |                   |                     |                     |                                                                                     |                     |                     |                     |                                                                                     |                     |                     |                     |

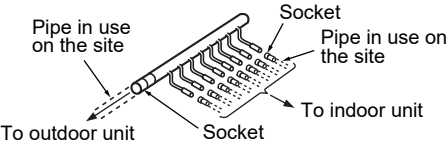
### CONNECTING METHOD

Select and install the socket that matches the diameter of a pipe to be connected to the indoor unit.

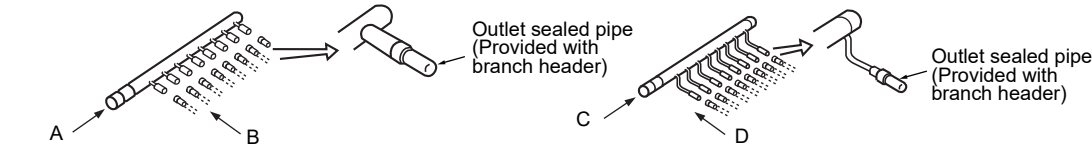
#### <Gas side>



#### <Liquid side>

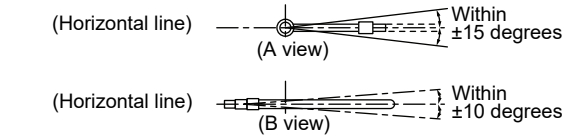


- If the number of indoor units to be connected is fewer than the maximum number of units that can be connected to the branching header, attach a sealed pipe to the unused connectors.

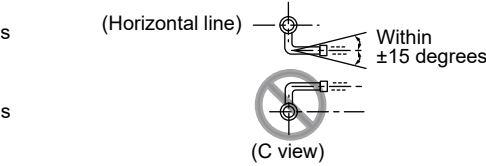


- Install the branching header so that it branches horizontally.

#### <Gas side>

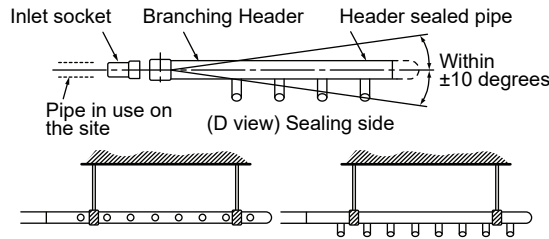


#### <Liquid side>



When arranging the branching header at the liquid side, attach a header sealed pipe on the sealing side of the header as shown in the figure at right. Be sure to install the branch pipe downward. Horizontal viewed from D point should be within ±10 degrees same as view B.

- Supporting branching header  
After applying the insulation, set the hanging metals as support. (in use on the site).



#### NOTE :

1. Install the branching header so that it branches horizontally. It cannot be used in a vertical position.
2. Do not use T-type pipe for the branching section.

### ◆ 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/m<sup>3</sup>, 10mm thick or more) on the heat insulator described above for the perfect heat insulation.