

**TOSHIBA**  
*Carrier* **INSTALLATION MANUAL**  
**SUPER MODULAR MULTI SYSTEM AIR CONDITIONER**  
**Branching Headers (Only for R410A)**  
**Model: RBM-HY1043UL, HY1083UL, HY2043UL, HY2083UL**

Thank you for purchasing the "Branching Header" for TOSHIBA Carrier Air Conditioner. Before starting the installation work, please read this manual carefully and install the product properly.

**PRECAUTIONS FOR SAFETY**

- Please read "PRECAUTIONS FOR SAFETY" described in the Installation Manual of Super Modular Multi System outdoor unit.
- For piping material and size of the refrigerant pipes, refer to the Installation Manual of Super Modular Multi System outdoor unit.
- Installation work must be carried out by following this installation manual and using exclusive tools and pipes for the new refrigerant (R410A).
- Ask an authorized dealer or qualified installation professional to install this product.
- The parts shown in the lower right table are included in this package. Check those parts.

**1. CONNECTING METHOD**

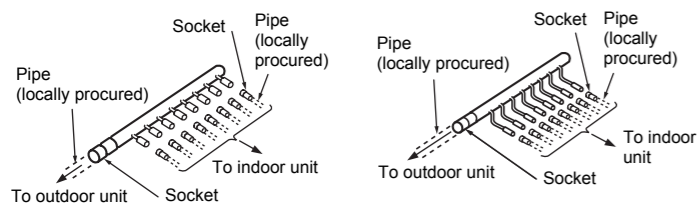
- Select the socket (No. in ○) fitting to the pipe diameter connected to the indoor unit.
- After cutting the pipe, be sure to remove the burrs and polish the end surface. When some squash or deformation occurs, improve the pipe insertion condition by using the flare tool.
- Confirm whether no dust, water, foreign matters exists on the branching joint and the socket to be inserted.

**CAUTION**

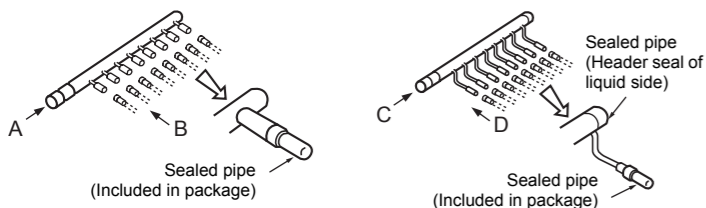
- When brazing the refrigerant pipes, be sure to put the nitrogen first to prevent from oxidizing the inner pipe. If not, the oxidization scale brings the refrigerant cycle clogging and result in malfunction.
- Use the brand new pipe for the refrigerant pipe, and prevent from water and dust when installing.

**<Gas side>**

**<Liquid side>**

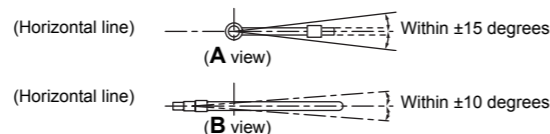


- If the number of indoor units to be connected is fewer than the maximum number of units that can be connected to the branching header, attach a sealed pipe to the unused connectors.

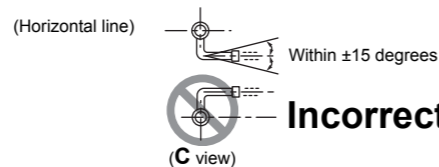


- Install the branching header so that it branches horizontally.

**<Gas side>**

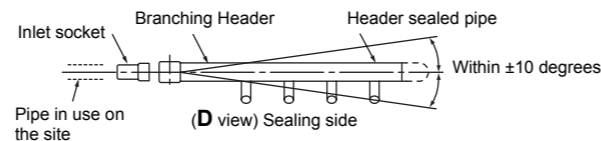


**<Liquid side>**



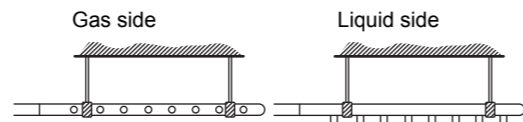
When arranging the branching header at the liquid side, attach a header sealed pipe on the sealing side of the header as shown in the figure at below.

Install the branch pipe downward. Horizontal viewed from D point should be within ±10 degrees same as view B.



- Supporting branching header

After heat insulators are applied to the branching pipes, set some hanging metals (locally procured) as support.



**NOTE**

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

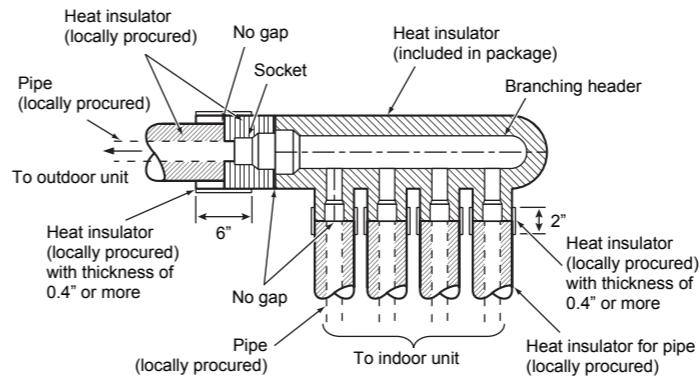
**2. HEAT INSULATING METHOD**

- In order to prevent dripping condensation, do not leave any gap between heat insulator for branching joint (included in package) and heat insulator for pipe (locally procured). And then, wrap the seam with heat insulators with thickness of 0.4" or more (locally procured).
- Use heat insulators with heat resistance of 248 °F or more for the gas side pipes.

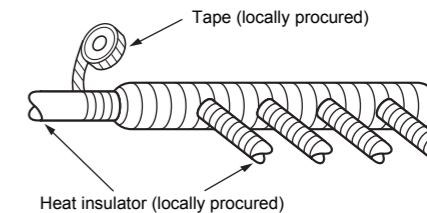
**CAUTION**

Condensation may occur on the heat insulator according to the atmosphere of the inside of the ceiling. If the inside of the ceiling is subject to be high temperature and high humidity, add glass wool {1.0 to 1.25 lb/ft<sup>3</sup> (16 to 20 kg/m<sup>3</sup>), 0.4" thick or more} on the heat insulator described above for a sufficient heat insulation.

**<Gas, liquid side>**



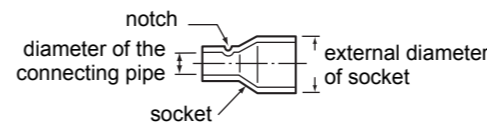
- Once heat insulators have been applied as shown above, tape up the heat insulator ends.



**PARTS LIST**

**NOTE**

- 1 Unit: inch
- 2 ( ): indicates outer diameter.
- 3 For the sockets, the side with a notch is the side to connect a pipe. (⊙): without notch



Unit : inch  
[Unit : mm]

		MODEL RBM-HY1043UL				MODEL RBM-HY1083UL				MODEL RBM-HY2043UL				MODEL RBM-HY2083UL			
Branching Header	NAME	RBM-HY1043UL				RBM-HY1083UL				RBM-HY2043UL				RBM-HY2083UL			
	Branching pipe gas side	Ø7/8" 1pc				Ø7/8" 1pc				Ø1 1/4" 1pc				Ø1 1/4" 1pc			
	Branching pipe liquid side	Ø3/8" 1pc				Ø3/8" 1pc				Ø3/8" 1pc				Ø3/8" 1pc			
	Heat insulator (gas side/liquid side)	1pc each				1pc each				1pc each				1pc each			
Socket	Gas side	No. 14	Inlet side	No. 06	Outlet side	No. 14	Inlet side	No. 06	Outlet side	No. 27	Inlet side	No. 06	Outlet side	No. 27	Inlet side	No. 06	Outlet side
	Liquid side	No. 06	Inlet side	No. 07	Outlet side	No. 06	Inlet side	No. 07	Outlet side	No. 06	Inlet side	No. 07	Outlet side	No. 06	Inlet side	No. 07	Outlet side
Outlet seal pipe of gas side		Ø5/8" 1pc				Ø5/8" 3pcs				Ø5/8" 1pc				Ø5/8" 3pcs			
Header seal pipe of liquid side		Ø5/8" 1pc				Ø5/8" 1pc				Ø5/8" 1pc				Ø5/8" 1pc			
Outlet seal pipe of liquid side		Ø3/8" 1pc				Ø3/8" 3pcs				Ø3/8" 1pc				Ø3/8" 3pcs			
Installation manual		This manual															