### INSTALLATION INSTRUCTION

## **Branching Header/Branching Joint (Only for R410A)**

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

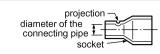
- Check the following parts in the package.
- · For piping material and size of the refrigerant pipes, refer to the Installation Manual of the Air Conditioner.

**MODEL: Branching Header** RBM-HY2043FE RBM-HY2083FE

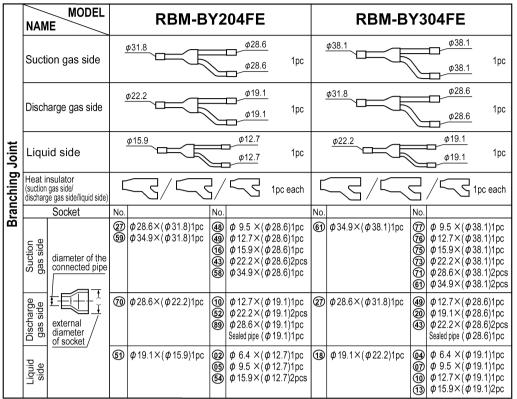
**Branching Joint** RBM-BY204FE RBM-BY304FE

### **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.

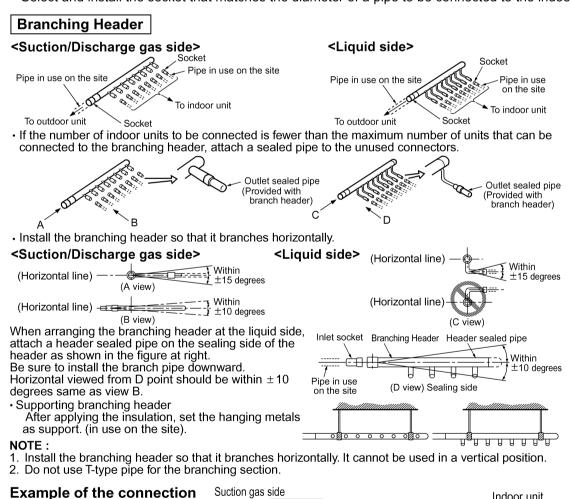


	MODEL NAME		RBM-HY2043FE					RBM-HY2083FE					
Branching Header	Suction gas side		φ31.8 φ15.9 1pc				1pc	φ31.8 ΠΠΠΠΠ φ15.9 1pc					
	Discharge gas side			φ22.2	φ15.9 ο	1pc <u>\$\phi 22.2</u>			<u>φ15.9</u> 1pc				
	Liquid side		φ15.9 φ9.5 φ15.9 1p				_ 1pc	φ15.9					
	Heat insulator (suction gas side/ discharge gas side/liquid side)						1pc each						
	Socket		No.		No.			No.		No.			
	Suction gas side	diameter of the connected pipe	(7) (59)	φ28.6×(φ31.8)1pc φ34.9×(φ31.8)1pc	88	$ \phi 9.5 \times (\phi \\ \phi 12.7 \times (\phi \\ $		(7) (5)		6	φ 9.5 ×(¢ φ 12.7×(¢		
	Discharge gas side	external	70	φ28.6×(φ22.2)1pc	9	φ12.7×(φ	15.9)4pcs	70	φ28.6×(φ22.2)1pc	09	φ12.7×(¢	15.9)8pcs	
	Liquid	diameter of socket	<b>5</b> 1	φ19.1×(φ15.9)1pc	01	$\phi$ 6.4 $\times$ ( $\phi$	9.5 )2pcs	<b>5</b> 1	φ 19.1×(φ 15.9)1pc	01	φ 6.4 ×(¢	9.5 )7pcs	
	Outlet seal	Outlet sealed pipe at suction gas side				(φ15.9)	1pc				(φ15.9)	3pcs	
	Outlet sealed pipe at discharge gas side				$(\phi 15.9)$ 3pcs						(φ15.9) 7pcs		
	Outlet sealed pipe at liquid side					(φ9.5) 1pc					(φ9.5)	3pcs	
	Header s	ealed pipe at liquid side				(φ15.9) 1pc					( <i>ф</i> 15.9)	1рс	



#### CONNECTING METHOD

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



Install the branching joint within  $\pm 15$  degrees.

**Branching Joint** 

Socket

To outdoor unit

<Gas/Liquid side>

<Suction/Discharge gas side>

Gas side branch joint

Installation direction of branch pipe

Install the branching pipes so that it

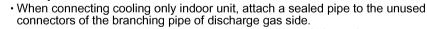
branch either vertically or horizontally.

Outlet (2)

Outlet (1)

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D9



Install the branch pipes horizontally or vertically so that they branch evenly.

(Horizontal line)

Example of the connection method to indoor unit

Pipe in use on the site

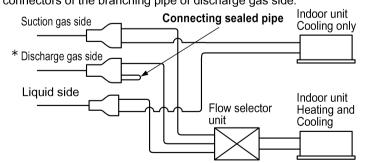
To other branching

Pipe in use on the site

Inlet J. De Co.

(Horizontal line)

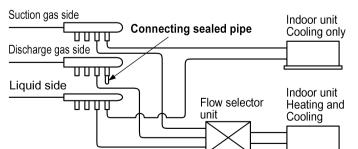
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\* Refer to above. There is the method of connecting without using branching joint pipe of discharge gas side. Please refer to the installation manual of the air conditioner.

# method to indoor unit

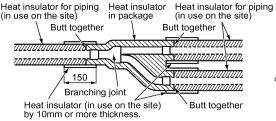
 When connecting cooling only indoor unit, attach a sealed pipe to the unused connectors of the branching pipe of discharge gas side.



#### **Heat insulating for pipes(Branching Joint)**

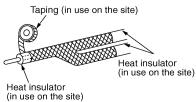
• In order to prevent dripping at the place where the insulation provided with the branching kit meets the insulating material obtained on the site, butt the two types of insulation up against each other, and then wrap the seam between the two types of insulation in at least 10mm of the insulating material (in use on the site).

• On the discharge gas-side pipe, use insulation that can withstand heat of 120°C or higher.



<Gas/Liquid side>

 After applying as the following, tape the insulator in place.





<Liquid side>

Outlet (2)

Both directions

(A view)

(B view)

<In case of horizontal installation>

In case of vertical installation

To other branching

Pipe in use

±15 degrees

Socket

Gas/Liquid side branch joint

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.