

(3) Pipe size selection

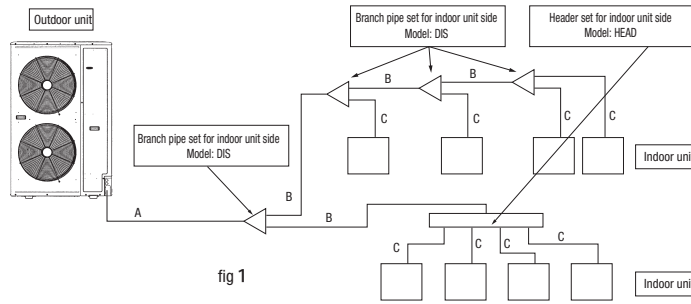


fig 1

(a) Main pipe (Between branch at outdoor unit side - initial branch at indoor unit side): Section A in Fig. 1

When the maximum length (to the furthest indoor unit from outdoor unit) is 90 m or more (actual length), change the size of main pipe as shown by the following table.

Outdoor unit	Main pipe size (Ordinary)		Pipe size for actual length longer than 90 m	
	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe
224	ø19.5x1.0	ø9.52x0.8	ø22.22x1.0	ø12.7x0.80
280	ø22.22x1.0		ø25.4x1.0	
335	ø25.4x1.0	ø12.7x0.8		

Make sure to use the attached pipes in the length as shown at left.

For ø19.05 or larger, use C1220T-1/2H material.

(b) Between initial branch at indoor unit side- indoor unit side: Section B in Fig. 1

Select from following table based on the total capacity of indoor units connected at the downstream side. However, it should never exceed the size of main pipe (Section A in Fig. 1).

Total capacity of indoor units	Gas pipe	Liquid pipe
Less than 70	ø12.7 x1.0	ø 9.52x0.8
70 - 180	ø15.88x1.0	
180 - 371	ø19.05x1.0 *1	ø12.7x0.8
371 - 540	ø19.05x1.0	ø15.88x1.0

For ø19.05 or larger, use C1220T-1/2H material.

\*1: When connecting indoor units of 280 at the downstream and the main gas pipe is of ø22.22 or larger, use the pipe of ø22.22x 1

(c) Between branching at indoor unit side - indoor unit side: Section C in Fig. 1

According to the table of pipe size for indoor unit. However, it should never exceed the size of main pipe (Section A in Fig. 1).

Indoor unit	Capacity	Gas pipe	Liquid pipe
		22, 28	ø 9.52x0.8
36, 45, 56		ø 12.7x0.8	
71, 80, 90, 112, 140, 160		ø15.88x1.0	ø9.52x0.8
224		ø19.05x1.0	
280		ø22.22x1.0	

For ø19.05 or larger, use C1220T-1/2H material.

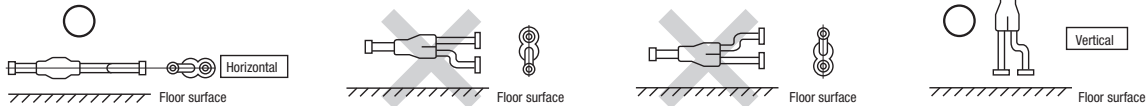
(4) Selection of the branch set for indoor unit side

(a) Selection of the branch pipe set

- Size of branch pipe varies depending on the capacity of connected indoor units (total capacity at downstream). Select it from the table at right.

Request

- Adjust the indoor unit and the size of branch pipe at the indoor unit side according to the size of pipe connected to indoor unit.
- Install the branch joint (both of gas and fluid) so that it will become "Horizontal branching" or "Vertical branching".



Total capacity at downstream	Branch pipe set
Less than 180	DIS-22-1
180 - 371	DIS-180-1
371 - 540	DIS-371-1

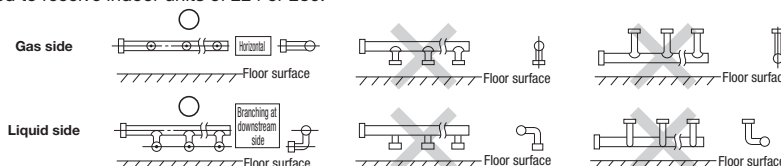
(b) Selection of the header set

- Connect a plugged pipe (field provided) at the branch point (indoor unit connecting side) depending on the number of units connected.
- For the size of plugged pipe, refer to the header set (optional item).

Request

- Adjust the header and indoor unit pipes to the size of pipes for connected indoor units.
- Install the header at the gas side to be "Horizontal branching" and, at the fluid side, that the branch is provided at the downstream side.
- Header is not allowed to receive indoor units of 224 or 280.

Total capacity at downstream	Header set model	Number of branches
Less than 180	HEAD4-22-1	Max. 4 branches
180 - 371	HEAD6-180-1	Max. 6 branches
371 - 540	HEAD8-371-1	Max. 6 branches



## 8.5 Instructions for installing the branch pipe set

PSB012D855B

- ◎ This manual describes the specifications of branching pipe set and header set installation. For outdoor unit installation and indoor unit installation, please refer to the respective installation manuals supplied with your outdoor unit and indoor unit.
- ◎ Before you set about installation work, please read this manual carefully so that you can carry out installation work according to the instructions contained herein.
- Please read the safety instructions contained in the installation manual supplied with your outdoor unit carefully and carry out installation work unerringly.
- When installation work is completed, conduct a test run to check the installation for any anomaly. Please also give the customer necessary instructions as to the operation and maintenance of the unit pursuant to the instruction manual (supplied with the indoor unit).
- Please ask the customer to keep the installation manual on the customer's part together with the instruction manual.

### PARTS LIST

Branching pipe set type	Gas side	liquid side	Different diameter pipe joint
DIS-22-1			None
DIS-180-1			
DIS-371-1			
DIS-540-2			
DOS-2A-1 (Outdoor units used in combination)			None
HEAD4-22-1			None
HEAD6-180-1			