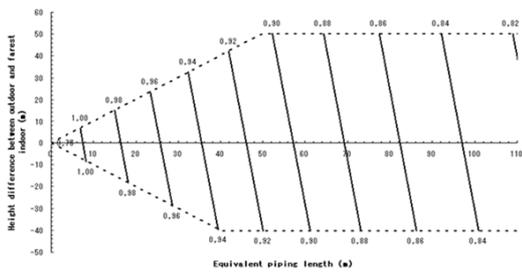
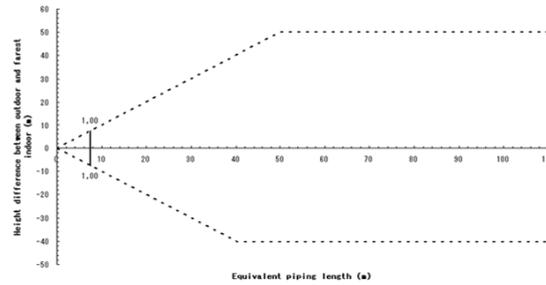


Correction ratio for cooling capacity



Correction ratio for heating capacity



Diameter of main pipes (standard size)

Model	Gas pipe	Liquid pipe
8HP	19,1	9,5

Notes

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown in the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units  
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

**Condition: Indoor connection ratio does not exceed 100%**

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at 100\% connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

**Condition: Indoor connection ratio exceeds 100%**

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at installed connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

- When level difference is 50m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased.

Model	gas pipe	liquid pipe
8HP	22,2	12,7

- When the pipe length after the first refrigerant branch kit is more than 40m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).
- \*Refer to the installation manual for allowed system setup and rules for dedicated indoor connection types.  
Equivalent length used in the above figures is based upon the following equivalent length

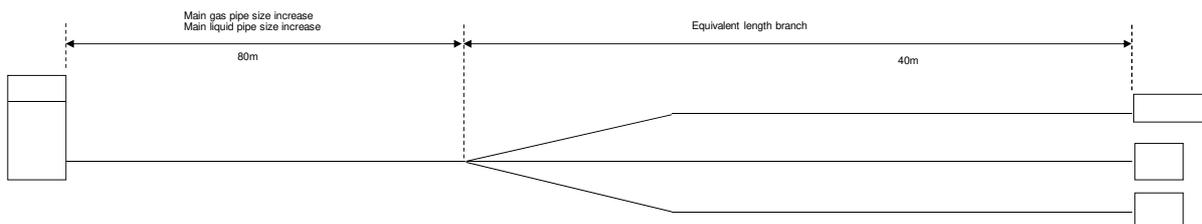
$$\text{Equivalent piping length} = \text{Equivalent length of main pipe} + \text{Equivalent length of branch pipes} \times \text{correction factor}$$

Choose the correction factor from the following table.

When cooling capacity is calculated: gas pipe size  
When heating capacity is calculated: liquid pipe size

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1,0	0,5
Heating (liquid pipe)	1,0	0,5

Example



In the above case  
(Cooling) Overall equivalent length = 80m x 0,5 + 40m = 80m  
(Heating) Overall equivalent length = 80m x 0,5 + 40m = 80m

The rate of change in:  
cooling capacity when height difference = 0 is thus approximately 0,86  
heating capacity when height difference = 0 is thus approximately 1,0