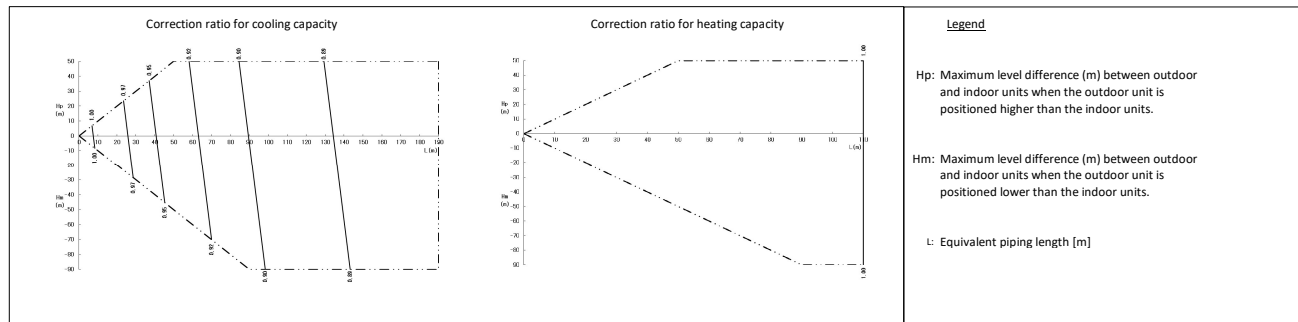




Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%.

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

Indoor connection ratio > 100%.

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

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
8HP	9,5	12,7

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

$$\text{Overall equivalent length} = \text{Equivalent length of the main pipe} \times \text{Correction factor} + \text{Equivalent length of the branch pipes}$$

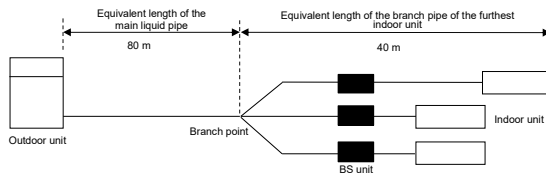
Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
8HP	1	0,2

5. Overall equivalent length for calculating cooling capacity

$$\text{Overall equivalent length} = \text{Equivalent length of the main pipe} \times 0,5 + \text{Equivalent length of the branch pipes}$$

6. Example -8HP-



Overall equivalent length

- Cooling mode
- Heating mode

$$= 80 \text{ m} \times 0,5 + 40 \text{ m} = 80 \text{ m}$$

$$= 80 \text{ m} \times 0,2 + 40 \text{ m} = 56 \text{ m}$$

Capacity correction ratio (height difference = 0)

- Cooling mode
- Heating mode

$$= 0,91$$

$$= 1,00$$