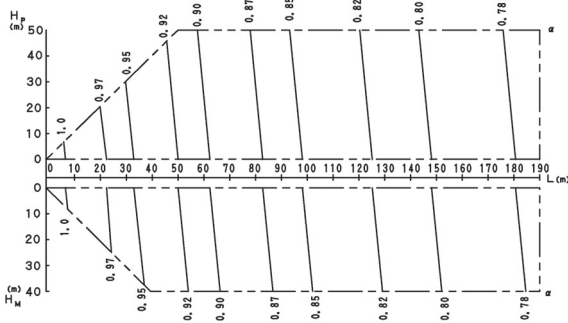
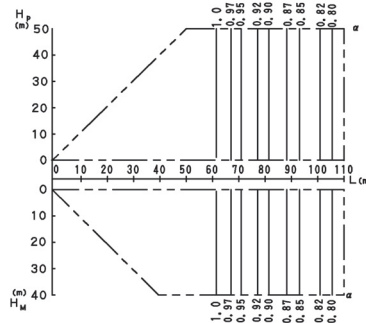


RXYQ10PY1K

Rate of change in cooling capacity



Rate of change in heating capacity



3D061980

NOTES

- These figures illustrate the rate of change in capacity of 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 from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
- Method of calculating A/C (cooling / heating) capacity:
The maximum A/C of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.

Calculating A/C capacity of outdoor units

- Condition: Indoor unit combination ratio does not exceed 100%
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from performance characteristics table at the 100% combination x capacity change rate due to piping length to the farthest indoor unit
- Condition: Indoor unit combination ratio exceeds 100%
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristics table at the combination x capacity change rate due to piping length to the farthest indoor unit

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

[Diameter of above case]

Model	gas	liquid
RXYQ10PY1K	ø 25.4*	ø12.7

*If on the site, use this size. Otherwise, not increased.

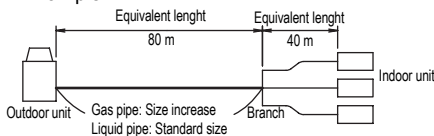
- Read cooling / heating capacity rate of change in the above figures based on the following equivalent length.
Overall equivalent length = (Equivalent length to main pipe) x Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table.

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

Rate of change (object piping)	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.2

- Example



In the above case

(Cooling) **Overall equivalent length = 80m x 0.5 + 40m = 80m**

(Heating) **Overall equivalent length = 80m x 0.2 + 40m = 56m**

The rate of change in cooling capacity when $H_p=0m$ is thus approximately 0.87

heating capacity when $H_p=0m$ is thus approximately 1.00

EXPLANATION OF SYMBOLS

H_p : Level difference (m) between indoor and outdoor units where indoor unit in inferior position

H_M : Level difference (m) between indoor and outdoor units where indoor unit in superior position

L : Equivalent pipe length (m)

α : Rate of change in cooling / heating capacity

[Diameter of the main pipes (standard size)]

Model	gas	liquid
RXYQ10PY1K	ø 22.2	ø9.5

[Temper grade and thickness]

Temper grade	0 Type		1/2 Type	
Outer diameter	ø 9.5	ø 12.7	ø22.2	ø25.4
Minimum Wall Thickness	0.80	0.80	0.80	0.80