

REYA-A9

REMA5A9

VRV5
Heat recovery
Piping restrictions

		Maximum piping length			Maximum height difference			Total piping length
		Longest pipe from the outdoor unit or the last multi-outdoor piping branch Actual / Equivalent Maximum: -(A+B1+C1, A+B2+C2, A+B1+C3, A+B1+D+C4, A+B1+D+C5)-	Longest pipe after first branch or multi -BS- unit Actual Maximum: -(B1+C1,B2+C2,B1+C3,B1+D+C4, B1+D+C5)-	Longest pipe from the outdoor unit to the last multi-outdoor piping branch Actual / Equivalent Maximum: -(E)-	Indoor-to-outdoor Outdoor unit higher than indoor unit / Indoor unit higher than outdoor unit Maximum: -(H1)-	Indoor-to-indoor Maximum: -(H2)-	Outdoor-to-outdoor Maximum: -(H3)-	Piping length
Single outdoor units and standard multi-outdoor-unit combinations > ·20hp·	·VRV DX R32· indoor unit	165/190 m ^{(*)3}	40 m ^{(*)3/(*4)}	10/13 m	50/40 m ^{(*)2}	15 m	5 m	1000 m
		120/165 m ^{(*)3}	40 m ^{(*)3/(*4)}		50/40 m ^{(*)2}	30 m		
	AHU ^{(*)5}	165/190 m ^{(*)3}	40 m		50/40 m	15 m		
Standard multi-outdoor-unit combinations ·≤ 20hp· and free multi-outdoor-unit combinations	·VRV DX R32· indoor unit	135/160 m ^{(*)3}	40 m ^{(*)3/(*4)}	10/13 m	50/40 m ^{(*)2}	15 m	5 m	500 m
	AHU ^{(*)5}		40 m		50/40 m			

		Maximum piping length	Maximum height difference
		EKEXVA → AHU: (F)	EKEXVA → AHU: (H4)
AHU	(*)5	5 m	5 m

Notes

- If all conditions below are met, the limitation can be extended up to 90 m
 - The piping length between all indoor units and the multi ·BS· unit is ≤ ·40· m.
 - It is required to size up the liquid piping between the first branch kit or multi ·BS· unit and the last branch kit or last multi ·BS· unit.
 It is not required to size up the liquid piping between the multi ·BS· unit and indoor units.
 It is required to size up the liquid piping which is downstream of the multi ·BS· unit, if the last branch kit is located downstream of the multi ·BS· unit.
 If the increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.
 - When the piping size is increased, the piping length has to be counted as double.
 The total piping length has to be within limitations.
 - The piping length difference between the nearest indoor unit to the outdoor unit and the farthest indoor unit to the outdoor unit is ≤ ·40·m.
- If all conditions below are met, the limitation can be extended up to 90 m
 - If the outdoor units are positioned higher than the indoor units:
 - Minimum connection ratio: ·80%-
 - Size up the liquid piping
 - Outdoor unit setting
 For more information, refer to the service manual.
 - If the outdoor units are positioned lower than the indoor units:
 - Size up the liquid piping
 - Outdoor unit setting
 For more information, refer to the service manual.
- If the equivalent piping is > ·90·m, size up the main liquid piping.
- Limit of ·40· m piping length between multi ·BS· unit and indoor unit is depending upon room size (cfr. Safety system)
- Possible combinations
 - Multi ·AHUs·
 - Mix of ·DX· units and ·AHUs·