RYYQ-U RYMQ-U

VRV4

Heat pump

Piping restrictions ·1/3·

For the reference drawing, see page ·2/3·.		Maximum piping length			Maximum height difference			
		Longest pipe	After first branch	After first branch (for multi-outdoor)	(3) Indoor-to-outdoor	Indoor-to-indoor	Outdoor-to-outdoor	Total piping length
		(A+[B,G,E,J]) Actual / (Equivalent)	(B,G,E,J) Actual	(D) Actual / (Equivalent)	(H1) Outdoor above indoor / (indoor above outdoor)	(H2)	(H3)	
Standard •VRV DX- indoor units only Standard multi-combination		165/(190)m ⁽⁸⁾	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	1000m
All multi-outdoor-unit combinations except		135/(160)m ⁽⁸⁾	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	500m
·Hydrobox· connection		135/(160)m(8)	40m	10/(13)m	50/(40)m	15m	5m	300-500m ⁽⁵⁾
·RA· connection		100/(120)m ⁽⁸⁾	50m ⁽²⁾	-	50/(40)m	15m	-	250m
·AHU· connection	Pair	50/(55)m ⁽⁴⁾	40m	10/13m	40/(40)m	-	5m	150m ⁽⁹⁾
	Multi (6)	165/(190)m ⁽⁸⁾	40m	10/13m	40/(40)m	15m	5m	1000m
	Mix (7)	165/(190)m ⁽⁸⁾	40m	10/13m	40/(40)m	15m	5m	1000m

Remar

For standard multi-outdoor-unit combinations, see -3D079534-.

- (1) If all conditions below are met, the limitation can be extended up to 90 m
 - The piping length between all indoor units and the nearest branch kit is ≤ 40m.
 - b. It is necessary to increase the size of the gas and liquid piping.
 - If the increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.
 - c. When the piping size is increased, the piping length has to be counted as double.
 - The total piping length has to be within limitations.
 - d. The piping length difference between the nearest indoor unit from the first branch to the outdoor unit and the farthest indoor unit to the outdoor unit is ≤ ·40·m.
- (2) If the piping length between the first branch and the -BP- box or -VRV- indoor unit is more than -20-m, increase the length of the gas and liquid piping between the first branch and the -BP- box or -VRV- indoor unit.
- (3) An extension to up to $\cdot 90 \cdot$ m is possible without an additional option kit. Respect the following conditions:
 - -> If the outdoor units are positioned higher than the indoor units:
 - a. Size up the liquid piping
 - b. A dedicated setting on the outdoor unit is required.
 - -> If the outdoor units are positioned lower than the indoor units:
 - a. 40~60m Minimum connection ratio: ·80%
 - 60~65m Minimum connection ratio: .90%-
 - 65~80m Minimum connection ratio: .100%-
 - 80~90m Minimum connection ratio: .110%.
 - b. Size up the liquid piping
 - A dedicated setting on the outdoor unit is required.
- (4) The allowable minimum length is ·5· m.
- (5) In case of multi-outdoor-unit combinations.
- (6) Multiple air handling units (AHU)(-EKEXV · + ·EKEQ · kits) or (AHU)(-EKEXVA · + ·EKEACBVE· kits).
- (7) Mix of ·AHU· units and ·VRV DX indoor-
- (8) If the equivalent piping length between is > .90·m, size up the main liquid and gas piping.
- (9) Up to $\cdot 3 \cdot$ piping branches are possible in case of an AHU with an interlaced heat exchanger.