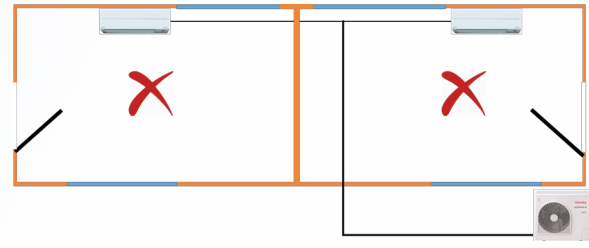
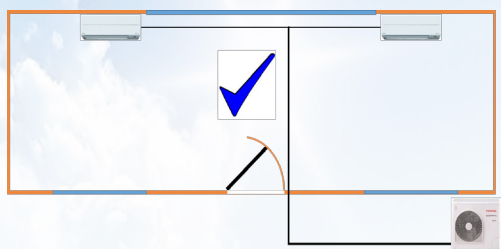




Solution Sheet 1 - Toshiba RAV-SM Twin/Triple/Quad Systems.

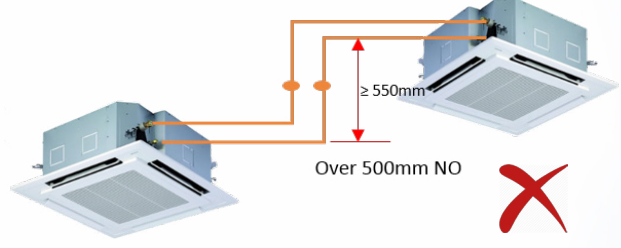
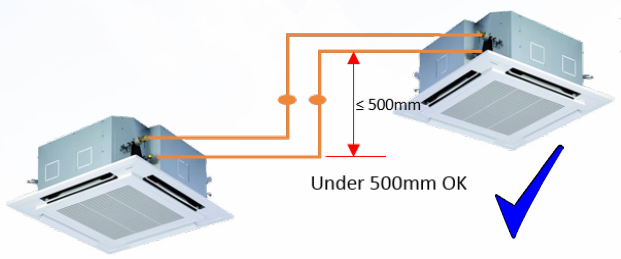
Key elements to take into consideration when designing a Twin/Triple/Quad installation.

- 1) That ALL the indoor units are within the **SAME** conditioned space, twin/triple/quad systems are **NOT** intended for multiple room installations, Mini VRF or RAS Multi systems are designed for this type of application.

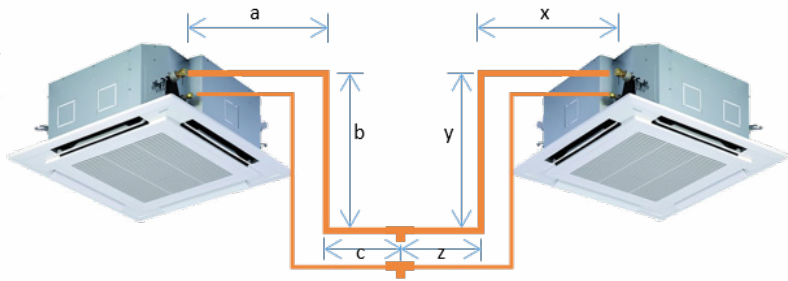


- 2) That the indoor units are of the **SAME** size (kW) and the **SAME TYPE**.

There is a **MAXIMUM** height difference between the refrigeration connections of **ALL** indoor units this being **0.5m**

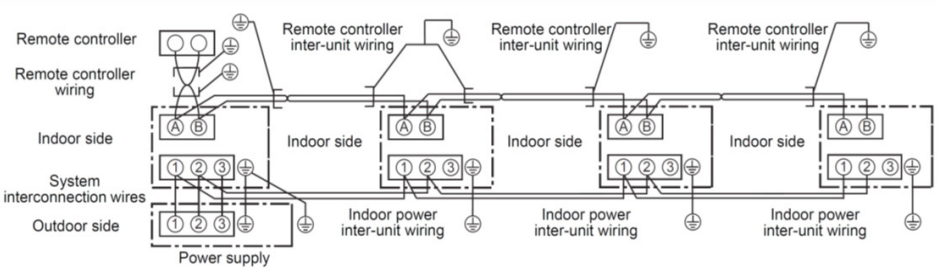
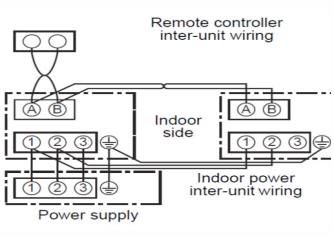


- 3) In an ideal world the separation from the "Tee Piece" to each indoor unit would be **EQUAL**, however it is not essential. There is a "Subtracted" difference between the **LONGEST** leg and the **SHORTEST** leg, irrespective of the size of units installed, the "Subtracted" difference should **NOT** exceed **10 metres**, (6 metres on Quad installations). **LONGEST** leg will depend on the model of the outdoor unit installed, average being either 15 or 20m.



$$(a+b+c) - (x+y+z) \leq 500\text{mm}$$

- 4) All the indoor units **MUST** be electrically connected into a **GROUP** format, via a two core cable connected to A&B at each indoor unit, this applies for **ALL** control options, hard wired, Infra-Red, Central or BMS. Interconnection between outdoor unit and indoor units being; Terminals 1-2-3 from outdoor to LEAD indoor, then terminals 1-2 from LEAD indoor to Follower indoor, if more than two indoors then continue 1-2 from follower 1 to follower 2 etc in a "Daisy chain format"



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