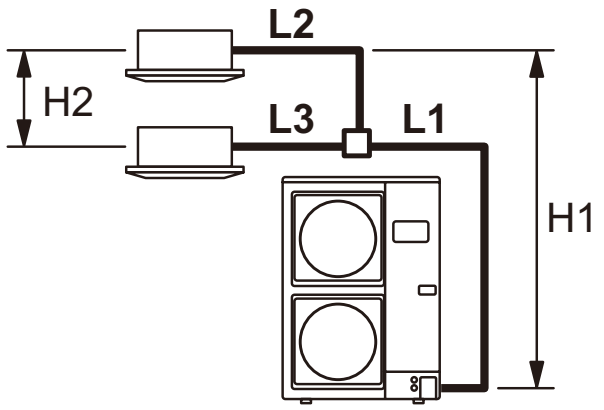
■ IF ADDITIONAL REFRIGERANT IS REQUIRED

- When the piping is longer than pre-charge length, additional charging is necessary.
- For the additional amount, see the table below.

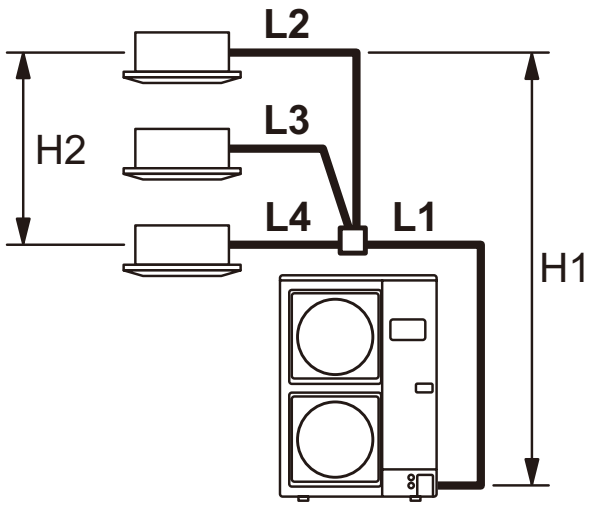
Additional charging amount

● Simultaneous multi system

Twin type



Triple type



Twin type: L1+L2+L3 > Pre-charge length
Triple type: L1+L2+L3+L4 > Pre-charge length

The additional charging amount for twin / triple type will be calculated as follows.

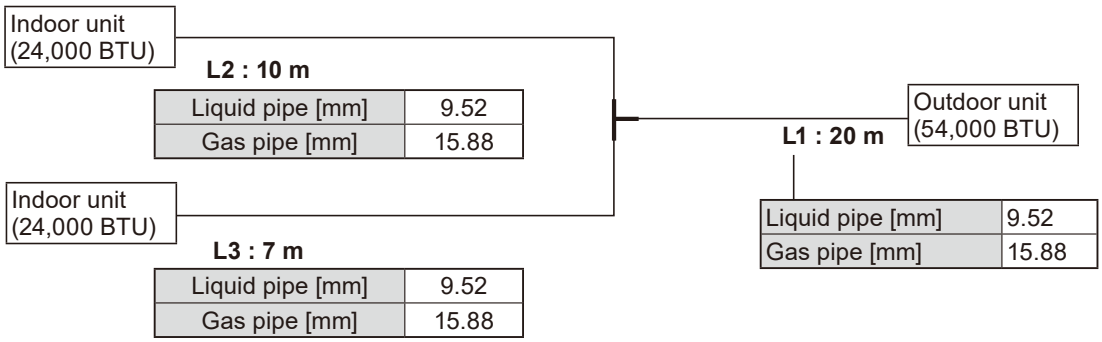
Additional charging amount (g)
= (A x 50) + (B x 30) - 1,500

- A = Piping length (m) of liquid pipe [9.52 mm (3/8 in.)]
- B = Piping length (m) of liquid pipe [6.35 mm (1/4 in.)]

- Do not remove refrigerant, even if the additional amount calculated is negative.

SYSTEM DESIGN

(Example 1)

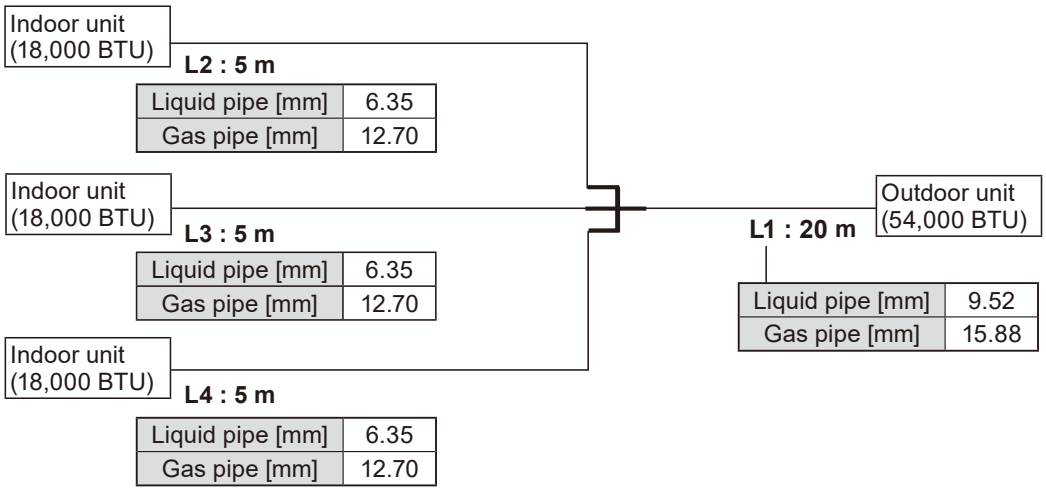


- Additional charging amount

Liquid pipe diameter [mm]	Piping length [m]	Coefficient
9.52	37	A = 37
6.35	0	B = 0

Applying the formula,
(37 x 50) + (0 x 30) - 1500 = 350
The additional charging amount is 350 g.

(Example 2)



- Additional charging amount

Liquid pipe diameter [mm]	Piping length [m]	Coefficient
9.52	20	A = 20
6.35	15	B = 15

Applying to the formula,
(20 x 50) + (15 x 30) - 1500 = –50
The calculated value is negative. Do not add or remove any refrigerant.

SYSTEM DESIGN