

1. Model Selection and Capacity Calculator

1-4. Additional Refrigerant Charge

Additional refrigerant charge amount is calculated below.

Required amount of additional refrigerant charge = Amount of additional refrigerant charge per meter of each size of liquid tube × its tube length

In the case of the required amount of additional refrigerant charge < 0, the additional refrigerant charge should be 0 kg.

Table 2-1-2 : Amount of Additional Refrigerant Charge Per Meter, According to Liquid Tubing Size

Liquid tubing size (mm)	6.35	9.52	12.7
Amount of additional refrigerant charge / m (g/m)	23	50	112

Table 2-1-3 : Refrigerant Charge Amount at Shipment (for Outdoor Unit)

4 HP	5 HP	6 HP
2.7 kg		

Table 2-1-4: Total amount of refrigerant in the system

4 HP	5 HP	6 HP
12.0 kg		

1-5. System Limitations

Table 2-1-5 : System Limitations

Outdoor unit horsepower	4 HP	5 HP	6 HP
Number of max. connectable indoor units	7 (10)	8 (12)	9 (12)
Max. allowable indoor/outdoor capacity ratio	50-130% *		

* If the following conditions are satisfied, the effective range is above 130% and below 150%.

- i) Obey the limited number of connectable indoor units.
- ii) The capacity of 1.5 kW indoor unit can not be connected.
- iii) Simultaneous operation is limited to less than 130% of connectable indoor units.

Note : The numbers in parenthesis are available with the capacity of 1.5 kW indoor unit connection.

1. Model Selection and Capacity Calculator

1-4. Additional Refrigerant Charge

Additional refrigerant charge amount is calculated below.

Required amount of additional refrigerant charge = [(Amount of additional refrigerant charge per meter of each size of liquid tube × its tube length) + (...) + (...)]

* Always charge accurately using a scale for weighing.

Table 8 : Amount of Additional Refrigerant Charge Per Meter, According to Liquid Tubing Size

Liquid tubing size (mm)	6.35	9.52	12.7
Amount of additional refrigerant charge / m (g/m)	23	50	112

Table 9 : Refrigerant Charge Amount at Shipment (for Outdoor Unit)

8 HP	10 HP
4.9 kg	5.1 kg

Table 10 : Total amount of refrigerant in the system

8 HP	10 HP
15.9 kg	

1-5. System Limitations

Table 11 : System Limitations

Outdoor unit horsepower	8 HP	10 HP
Number of max. connectable indoor units	16	16
Max. allowable indoor/outdoor capacity ratio	50-130%*	

* If the following conditions are satisfied, the effective range is above 130% and below 150%.

- i) Obey the limited number of connectable indoor units.
- ii) The capacity of 1.5 kW indoor unit can not be connected.
- iii) Simultaneous operation is limited to less than 130% of connectable indoor units.