

## ABSTRACT

### REFRIGERANT CONTROL SYSTEM AND COOLING SYSTEM

To provide a refrigerant control system and a cooling system capable of making a storage section in a compact size while increasing a refrigerant storage amount.

A refrigerant control system includes: a storage part 30 which stores a first refrigerant; a first sub-pipe 71a which is connected to an outlet side pipe 62a of a first circulation flow path 61; a second sub-pipe 71b which is connected to an inlet side pipe 62b of the first circulation flow path 61; a third sub-pipe 71c which is connected to the inlet side pipe 62b and is formed so that heat of the third sub-pipe 71c lower than heat of the outlet side pipe 62a is able to be transferred to the first refrigerant in the storage part 30; a first opening and closing valve 72a which is provided in the first sub-pipe 71a; a second opening and closing valve 72b which is provided in the second sub-pipe 71b; a third opening and closing valve 72c which is provided in the third pipe; and an opening and closing control unit which performs opening and closing control of the first opening and closing valve 72a, the second opening and closing valve 72b, and the third opening and closing valve 72c on the basis of a set temperature of a second refrigerant.

[Figure 1]