CLAIMS

[Claim 1]

A refrigerator comprising:

a cabinet having an inner space;

a divider for dividing the inner space of the cabinet into a plurality of storage rooms;

a refrigeration cycle accommodated in the cabinet, the refrigeration cycle connecting in series in an order of a compressor, a condenser pipe, a pressure reducing device, an anti-condensation pipe, and a capillary tube;

an outside-air-temperature sensor provided outside the cabinet and configured to detect an outside air temperature; and

a controller configured to control operation of the refrigeration cycle,

the controller including

a setting table storing a flow resistance of the pressure reducing device associated with each one of outside air temperatures, the flow resistances being different from each other,

an operating-condition setting unit configured to select one from the flow resistances in the setting table based on the outside air temperature detected by the outside-air-temperature sensor and configured to set an operating time for the selected flow resistance, and

a refrigeration-cycle control unit configured to control the refrigeration cycle to allow operation to be performed with the flow resistance and the operating time set by the operating-condition setting unit.

[Claim 2]

The refrigerator of Claim 1, further comprising an operating device configured to receive information on whether or not adjustment of the flow resistance is allowed,

wherein, when the operating device receives input information that selection of the flow resistance is allowed, the controller selects the flow resistance of the refrigeration cycle and sets the operating time of the refrigeration cycle.

[Claim 3]

The refrigerator of Claim 2,

wherein the operating device includes an operating switch used to directly input the flow resistance selected from the setting table, and

wherein the operating-condition setting unit has a function of selecting the flow resistance input from the operating device.

[Claim 4]

The refrigerator of any one of Claims 1 to 3,

wherein the flow resistance associated with each one of outside air temperatures stored in the setting table includes a plurality of the flow resistances, the plurality of the flow resistances being different from each other, and

wherein the operating-condition setting unit sets the operating time for each one of the plurality of flow resistances.

[Claim 5]

The refrigerator of Claim 4,

wherein the setting table previously stores temperatures of refrigerant flowing through the anti-condensation pipe corresponding to the respective flow resistances, and

wherein the operating-condition setting unit sets the operating time for each one of the plurality of flow resistances so that an average temperature of the refrigerant flowing through the anti-condensation pipe is higher than a dew point temperature.

[Claim 6]

The refrigerator of Claim 5,

wherein the operating-condition setting unit sets the operating time for each one of the plurality of flow resistances so that the average temperature of the refrigerant flowing through the anti-condensation pipe equals the outside air temperature.

[Claim 7]

The refrigerator of Claim 5,

wherein the operating-condition setting unit sets the operating time for each one of the plurality of flow resistances so that the average temperature of the refrigerant flowing through the anti-condensation pipe is lower than the outside air temperature by a predetermined temperature.

[Claim 8]

The refrigerator of Claim 5, further comprising a humidity sensor configured to detect humidity of the outside air,

wherein the operating-condition setting unit calculates the dew point temperature based on the humidity detected by the humidity sensor and based on the outside air temperature and sets the operating time for each one of the plurality of flow resistances so that a temperature of the refrigerant flowing through the anti-condensation pipe is higher than the dew point temperature.

[Claim 9]

The refrigerator of any one of Claims 1 to 8,

wherein the outside air temperatures are classified into three categories in the setting table.

[Claim 10]

The refrigerator of any one of Claims 1 to 9,

wherein the anti-condensation pipe is accommodated in at least a part of front edges of the cabinet and the divider.