CLAIMS

[Claim 1]

A refrigerator comprising:

a cabinet that has an interior that is partitioned into a plurality of storage chambers;

a divider portion that divides an internal space of the cabinet into the plurality of storage chambers; and

a refrigeration cycle that includes a compressor, a condensation pipe, a decompressor, an anti-condensation pipe, a capillary tube, and a cooler,

wherein at least a refrigerator compartment and a freezer compartment are provided as the storage chamber,

wherein the anti-condensation pipe is incorporated, under a connected state, in a portion of an edge portion of the cabinet on a front surface side and a portion of an edge portion of the divider portion on the front surface side, both forming the refrigerator compartment and the freezer compartment,

wherein the condensation pipe, the decompressor, and the anti-condensation pipe are connected in series,

wherein the decompressor is configured by an electronic expansion valve capable of variably controlling a pressure-reduction amount, being connected between the condensation pipe and the anti-condensation pipe so that the refrigerant flowing out of the condensation pipe flows therein without being branched, and adjusts the refrigerant pressure in the anti-condensation pipe in such a manner that the refrigerant saturation temperature in the anti-condensation pipe is lower than the outside air temperature by 3 degrees C to 5 degrees C.

CLAIMS

[Claim 1]

A refrigerator comprising:

a cabinet that has an interior that is partitioned into a plurality of storage chambers;

a divider portion that divides an internal space of the cabinet into the plurality of storage chambers;

a refrigeration cycle that includes a compressor, a condensation pipe, a decompressor, an anti-condensation pipe, a capillary tube, and a cooler, and

a controller,

wherein the anti-condensation pipe is incorporated in at least a portion of an edge portion of the cabinet on a front surface side and at least a portion of an edge portion of the divider portion on the front surface side,

wherein the decompressor is connected between the condensation pipe and the anti-condensation pipe,

wherein the condensation pipe, the decompressor, and the anti-condensation pipe are connected in series,

and wherein the controller controls the decompressor so that a refrigerant pressure in the anti-condensation pipe is adjusted in such a manner that a refrigerant temperature in the anti-condensation pipe becomes substantially equal to a temperature of surroundings thereof or less.

[Claim 2 ]

The refrigerator of claim 1 ,

wherein the controller controls the decompressor so that the refrigerant pressure in the anti-condensation pipe is adjusted in such a manner that the refrigerant saturation temperature in the anti-condensation pipe is lower than the temperature of surroundings thereof by 3 degrees C to 5 degrees C.

[Claim 3 ]

The refrigerator of claim 1 or 2 ,

wherein the decompressor is an electronic expansion valve capable of variably controlling a pressure-reduction amount.

[Claim 4 ]

The refrigerator of any one of claims 1 to 3,

wherein the decompressor is a capillary tube.