CLAIMS

[Claim 1]

A refrigerator comprising:

a cabinet body including an inner cabinet in which a storage compartment is formed and an outer cabinet that is provided outside the inner cabinet and that defines an outer frame;

a cooling device that generates cold air;

a compressor that drives the cooling device;

a drain pan in which defrost water generated by the cooling device accumulates;

a defrosting pipe through which the defrost water flows to the drain pan;

a first vacuum heat insulation material fixed to the outer cabinet; and

a second vacuum heat insulation material fixed to the inner cabinet,

wherein the cooling device, the compressor, and the defrosting pipe are disposed between the inner cabinet and the outer cabinet, and

wherein the second vacuum heat insulation material is disposed between the inner cabinet and the defrosting pipe and has a dimension less than a dimension of the first vacuum heat insulation material, the refrigerator comprising:

a defrosting pipe cover that covers at least one of a joining portion between the defrosting pipe and a cooling compartment in which the cooling device is placed and a joining portion between the defrosting pipe and a machine compartment in which the compressor and the drain pan are placed; and

a defrosting pipe heater provided on an outer periphery of the defrosting pipe cover, and

wherein no portion of the defrosting pipe heater overlaps any other portion of the defrosting pipe heater in a direction normal to the defrosting pipe heater.

[Claim 2]

The refrigerator of claim 1, wherein the second vacuum heat insulation material is disposed between the inner cabinet and the compressor.

[Claim 3]

The refrigerator of claim 1 or 2, wherein the second vacuum heat insulation material extends along an outer surface of the inner cabinet.

[Claim 4]

The refrigerator of any one of claims 1 to 3, wherein the second vacuum heat insulation material has a bent shape that follows a shape of the inner cabinet.

[Claim 5]

The refrigerator of any one of claims 1 to 4, wherein the first vacuum heat insulation material is not disposed between the outer cabinet and the defrosting pipe.

[Claim 6]

The refrigerator of any one of claims 1 to 4, further comprising:

a heater fixed to the defrosting pipe,

wherein the first vacuum heat insulation material is disposed between the outer cabinet and the defrosting pipe.

[Claim 7]

The refrigerator of any one of claims 1 to 6, wherein the first vacuum heat insulation material is not disposed between the outer cabinet and the compressor.

[Claim 8]

The refrigerator of any one of claims 1 to 7, wherein the second vacuum heat insulation material has a first recess in a contact surface thereof that is in contact with the inner cabinet.

[Claim 9]

The refrigerator of any one of claims 1 to 8, wherein the second vacuum heat insulation material has a second recess in a surface thereof that is opposite to a contact surface thereof that is in contact with the inner cabinet.

[Claim 10]

The refrigerator of any one of claims 1 to 7, wherein the second vacuum heat insulation material has a first recess in a contact surface thereof that is in contact with the inner cabinet and a second recess in a surface thereof that is opposite to the contact surface in contact with the inner cabinet, and

wherein the first recess and the second recess do not overlap on a projection plane.

[Claim 11]

The refrigerator of claim 10, wherein the inner cabinet has a projection on a contact surface thereof that is in contact with the second vacuum heat insulation material, and

wherein the first recess and the projection are engaged with each other.