

Title (en)
HEAT PUMP SYSTEM

Title (de)
WÄRMEPUMPENSYSTEM

Title (fr)
SYSTÈME DE POMPE À CHALEUR

Publication
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Application
EP 14885644 A 20140310

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Abstract (en)
The present invention has an object to provide a heat pump system that prevents accumulation of a liquid refrigerant inside a sealed container in a low-heating operation. The heat pump system of the present invention includes a compressor having a first intake passage for leading a low-pressure refrigerant to a compressing element in the sealed container, a first discharge passage for discharging a high-pressure refrigerant compressed in a compressing element, a second intake passage for guiding the high-pressure refrigerant that has exchanged heat after being discharged from the first discharge passage to the internal space of the sealed container without compression, and a second discharge passage for discharging the high-pressure refrigerant in the internal space of the sealed container, a first heat exchanger for heating an object fluid by heat of the high-pressure refrigerant discharged from the first discharge passage, a second heat exchanger for heating the object fluid by heat of the high-pressure refrigerant discharged from the second discharge passage, and control means for performing a high-heating operation and the low-heating operation with a heating power smaller than that of the high-heating operation, and the control means controls, in the low-heating operation, so that a state of the refrigerant in the second intake passage is in a superheated gas state.

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Cited by
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