

Title (en)
AIR CONDITIONING AND HOT-WATER SUPPLYING SYSTEM

Title (de)
KLIMAANLAGE UND HEISSWASSERVERSORGUNGSSYSTEM

Title (fr)
SYSTÈME DE CONDITIONNEMENT D'AIR ET D'ALIMENTATION EN EAU CHAUDE

Publication
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Application
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Abstract (en)
An air-conditioning and hot-water supply system that enables enhancing the efficiency of the whole air-conditioning and hot-water supply system is provided. A refrigerant circuit for air conditioning (10) is provided with a compressor for air conditioning (11), an operation switching means for air conditioning (12), a heat exchanger on the heat source side for air conditioning (13), decompression devices (14, 16), a heat exchanger on the heat utilization side for air conditioning (15) and an intermediate heat exchanger (21) that exchanges heat between a first refrigerant and a second refrigerant, a first branched part (22) that branches between the compressor for air conditioning (11) and the heat exchanger on the heat source side for air conditioning (13) and adjusts a flow rate of the first refrigerant which flows in each branched direction and a second branched part (32) that branches between the compressor for air conditioning (11) and the heat exchanger on the heat utilization side for air conditioning (15) and adjusts a flow rate of the first refrigerant which flows in each branched direction are formed, one end of the intermediate heat exchanger (21) is connected to the first branched part (22) and the second branched part (32), the other end is connected to a junction (24) between the heat exchanger on the heat source side for air conditioning (13) and the heat exchanger on the heat utilization side for air conditioning (15), and the intermediate heat exchanger functions as a condenser of the first refrigerant.

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Cited by
GB2539036A; EP3121541A4; US10254016B2; US9845973B2; WO2016033484A1; EP3186513B1

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