

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

Title (de)  
KLIMAANLAGE UND HEISSWASSERVERSORGUNGSSYSTEM

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

Publication  
**EP 2600081 A4 20151230 (EN)**

Application  
**EP 10855316 A 20100729**

Priority  
JP 2010062828 W 20100729

Abstract (en)  
[origin: EP2600081A1] [Problem] To provide an air conditioning and hot-water supply system that can perform operation of a hot-water supply cycle while using exhaust heat from the air conditioning cycle even when an air conditioning load is lower than a hot-water supply load. [Solution] The present invention is an air conditioning and hot-water supply system including: an air conditioning refrigerant circuit (5) that selectively performs cooling operation and heating operation; a hot-water supply refrigerant circuit (6) that performs hot-water supply operation; an intermediate heat exchanger (23) that performs heat exchange between an air conditioning refrigerant flowing through the air conditioning refrigerant circuit and a hot-water supply refrigerant flowing through the hot-water supply refrigerant circuit; and a control device (1a) that performs control of operation. The control device calculates a heat radiation amount required by the air conditioning refrigerant circuit in the cooling operation and a heat absorption amount required by the hot-water supply refrigerant circuit in the hot-water supply operation. The control device performs control such that when the heat radiation amount is larger than the heat absorption amount, the amount of heat equivalent to the difference therebetween is radiated from an air conditioning heat source side heat exchanger to outside air, and when the heat absorption amount is larger than the heat radiation amount, the amount of heat equivalent to the difference therebetween is absorbed from outside air by a hot-water supply heat source side heat exchanger.

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Citation (search report)  
• [A] JP 2005299935 A 20051027 - FUJITSU GENERAL LTD  
• See references of WO 2012014306A1

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