Title (en)

AIR-CONDITIONING/HOT WATER-SUPPLY SYSTEM

Title (de)

KLIMATISIERUNGS-/HEISSWASSERVERSORGUNGSSYSTEM

Title (fr)

SYSTÈME D'ALIMENTATION EN EAU CHAUDE/AIR CONDITIONNÉ

Publication

EP 3217123 A1 20170913 (EN)

Application

EP 17157736 A 20170223

Priority

JP 2016044074 A 20160308

Abstract (en)

An air-conditioning/hot water-supply system that, even if a condensation temperature Tvc in a refrigeration cycle in which an air-conditioning refrigerant circulates varies, prevents a durability of a hot water-supply compressor from being impaired, enabling enhancement in reliability, is provided. A volume ratio between a low pressure-side circuit internal volume Ve and a high pressure-side circuit internal volume Vc in a first refrigeration cycle 100 is set as Ve/Vc = 0.2 to 10.1. Consequently, irrespective of a condensation temperature Tvc in a second refrigeration cycle, no excessive increase in discharge temperature Td of the first refrigeration cycle occurs and thus a durability of a compressor is not impaired, enabling enhancement in reliability of the first refrigeration cycle.

IPC 8 full level

F25B 49/02 (2006.01); **F25B 7/00** (2006.01); **F25B 25/00** (2006.01)

CPC (source: CN EP)

F24D 17/02 (2013.01 - CN); **F24F 5/0096** (2013.01 - CN); **F25B 7/00** (2013.01 - EP); **F25B 25/005** (2013.01 - EP); **F25B 49/02** (2013.01 - EP); F25B 2313/0233 (2013.01 - EP); F25B 2339/047 (2013.01 - EP); F25B 2500/01 (2013.01 - EP)

Citation (applicant)

- JP 2004132647 A 20040430 - DAIKIN IND LTD
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Citation (search report)

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- [Y] US 2005178151 A1 20050818 - MATSUMOTO KENZO [JP], et al
- [Y] JP 2005226927 A 20050825 - SANYO ELECTRIC CO

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3217123 A1 20170913; CN 107166580 A 20170915; JP 2017161115 A 20170914

DOCDB simple family (application)

EP 17157736 A 20170223; CN 201610752080 A 20160829; JP 2016044074 A 20160308