

Title (en)
AIR-CONDITIONING SYSTEM

Title (de)
KLIMATISIERUNGSSYSTEM

Title (fr)
SYSTÈME DE CONDITIONNEMENT D'AIR

Publication
EP 2837898 A4 20160120 (EN)

Application
EP 12872714 A 20120329

Priority
JP 2012002172 W 20120329

Abstract (en)
[origin: EP2837898A1] The present invention provides an air-conditioning system in which, when determining a target outlet water temperature of a heat source device, a representative indoor unit is properly selected and the target outlet water temperature of the heat source device is determined in accordance with the indoor load in the selected representative indoor unit, so that high operation efficiency can be achieved without impairing comfortability. The air-conditioning system includes a main controller 11 that determines whether a plurality of indoor heat exchangers 31 include an indoor heat exchanger 31 in which the water flow rate of water passing through the indoor heat exchanger 31 has reached its upper limit. If an indoor heat exchanger 31 is present, the main controller 11 sets a predetermined one of the indoor heat exchangers as a representative indoor heat exchanger, determines a target outlet water temperature Twso of a heat source device 1 based on an indoor temperature Tai of the room in which the representative indoor heat exchanger 31 of an indoor unit 2 is installed, an inlet water temperature Twi of the representative indoor heat exchanger 31, an outlet water temperature Two of the representative indoor heat exchanger 31, a preset temperature Taim of the room in which the representative indoor heat exchanger 31 is installed, and an outdoor air temperature Tao, and controls the capacity of the heat source device 1 to make the outlet water temperature Twso of the heat source device 1 equal to the determined target outlet water temperature Twso.

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Citation (search report)

- [A] JP 2004293844 A 20041021 - HITACHI PLANT ENG & CONSTR CO
- [A] JP 2007315695 A 20071206 - TOYO NETSU KOGYO KK
- [A] JP 2006038379 A 20060209 - TOYO NETSU KOGYO KK
- See references of WO 2013145005A1

Cited by
US11448433B2

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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

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