

Title (en)
CONTROL SYSTEM FOR ADJUSTING AIR TEMPERATURE, HUMIDITY AND WATER TEMPERATURE BY AN OUTDOOR AIR HEAT EXCHANGER

Title (de)
STEUERUNGSSYSTEM ZUR ANPASSUNG DER LUFTTEMPERATUR, FEUCHTIGKEIT UND WASSERTEMPERATUR DURCH EINEN AUSSENLUFTWÄRMETAUSCHER

Title (fr)
SYSTÈME DE COMMANDE DE RÉGLAGE DE LA TEMPÉRATURE DE L'AIR, DE L'HUMIDITÉ ET LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN ÉCHANGEUR DE CHALEUR D'AIR EXTÉRIEUR

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Application
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Abstract (en)
The present invention relates to a control system for adjusting air temperature, humidity and water temperature by an outdoor air heat exchanger, comprising an air conditioning apparatus, a heat exchange apparatus and an outdoor air heat exchanger. The air conditioning apparatus comprises: a gas recovery apparatus, a gas refrigerating and dehumidifying apparatus, a gas supply apparatus and a compressor unit; the gas refrigerating and dehumidifying apparatus and the compressor unit are connected in series to a first heat exchange apparatus to form a refrigerant system; the outdoor air heat exchanger is connected in parallel to the refrigerant system; the control system is enabled based on different set values of indoor humidity, water temperature and/or room temperature, and particularly makes use of the heat absorption and heat dissipation functions of the outdoor air heat exchanger to control water temperature and/or room temperature.

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Citation (search report)

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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

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