

Title (en)

A HEAT PUMP AIR CONDITION SYSTEM, AND THE STEAM JET SYSTEM AND THE CONTROL METHOD THEREOF

Title (de)

WÄRMEPUMPENKLIMAANLAGE UND DAMPFSTRAHLSYSTEM SOWIE STEUERVERFAHREN DAFÜR

Title (fr)

SYSTÈME DE CONDITIONNEMENT D'AIR À POMPE THERMIQUE, SYSTÈME FRIGORIFIQUE À ÉJECTION DE VAPEUR ET PROCÉDÉ DE COMMANDE ASSOCIÉ

Publication

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Application

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Priority

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Abstract (en)

[origin: EP2009369A1] The present invention relates to a heat pump air conditioning system, a compressor steam jet system of the same and a control method thereof, wherein the heat pump air conditioning system comprises a four-way valve (13), an indoor unit heat exchanger (19), an indoor throttle device (20), an outdoor throttle device (15) and an outdoor unit heat exchanger (14) which are connected in series to form a loop. The heat pump air conditioning system further comprises a compressor steam jet system, and said compressor steam jet system comprises a compressor (11) which comprises a first air inlet (111), a second air inlet (112) and an air outlet (113), wherein said first air inlet (111) is connected with said four-way valve (13) through a gas-liquid separator (12), and said second air inlet (112) is connected to between said indoor throttle device (20) and said outdoor throttle device (15) by means of the bypass pipe on which an electronic expansion valve (21) is disposed, and said air outlet (113) is connected with said four-way valve (13). Sensors (201, 202, 203) for detecting gas state are respectively disposed at the two air inlets (111, 112) and the air outlet (113), thereby the second air inlet (112) is controlled according to the test results from the sensors.

IPC 8 full level

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Citation (search report)

- [IA] JP 2004183913 A 20040702 - MITSUBISHI ELECTRIC CORP
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- See references of WO 2007115494A1

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