

Title (en)
HEAT PUMP SYSTEM AND CONTROL METHOD THEREFOR

Title (de)
WÄRMEPUMPENSYSTEM UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)
SYSTÈME DE POMPE À CHALEUR ET PROCÉDÉ DE COMMANDE ASSOCIÉ

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Application
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Abstract (en)

A heat pump system, which comprises at least one heat pump indoor unit. The heat pump indoor unit comprises a cascade heat exchanger (11) and a terminal heat exchanger assembly (16). The cascade heat exchanger (11) comprises a first heat exchange portion (12) and a second heat exchange portion (14), wherein the first heat exchange portion (12) is connected to a low-temperature-stage circulation pipeline (13), and there is a first refrigerant in the low-temperature-stage circulation pipeline (13); and the second heat exchange portion (14) is connected to a high-temperature-stage circulation pipeline (15), there is a second refrigerant in the high-temperature-stage circulation pipeline (15), and the second heat exchange portion (14) is configured to exchange heat with the first heat exchange portion (12). The terminal heat exchanger assembly (16) comprises a third heat exchange portion (18), a fourth heat exchange portion (19) and a terminal heat exchange portion (17), wherein the third heat exchange portion (18) is connected to the low-temperature-stage circulation pipeline (13); the fourth heat exchange portion (19) is connected to the high-temperature-stage circulation pipeline (15); and the terminal heat exchange portion (17) is connected to an indoor end apparatus, and is configured to exchange heat with the third heat exchange portion (18), or exchange heat with the fourth heat exchange portion (19), or exchange heat with the third heat exchange portion (18) and the fourth heat exchange portion (19).

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