Title (en)

AIR CONDITIONER

Title (de)

KLIMAANLAGE

Title (fr)

CLIMATISEUR

Publication

EP 2857768 B1 20200826 (EN)

Application

EP 13777485 A 20130404

Priority

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Abstract (en)

[origin: EP2857768A1] In addition to a sensor for detecting the completion of the evaporation of a liquid refrigerant, there is a need to provide a sensor for detecting a condensation temperature in a heating operation and/or an evaporation temperature in the cooling operation. In an air conditioner of the present invention, an indoor heat exchanger includes an auxiliary heat exchanger 20 and a main heat exchanger 21 disposed leeward from the auxiliary heat exchanger 20. In an operation in a predetermined dehumidification operation mode, a liquid refrigerant supplied to the auxiliary heat exchanger 20 all evaporates midway in the auxiliary heat exchanger 20. Therefore, only an upstream partial area in the auxiliary heat exchanger 20 is an evaporation region, while an area downstream of the evaporation region in the auxiliary heat exchanger 20 is a superheat region. Further, an indoor heat exchanger temperature sensor 32 is disposed leeward from the superheat region of the auxiliary heat exchanger 20 and in or in the vicinity of a middle portion of the indoor heat exchanger.

IPC 8 full level

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CPC (source: EP US)

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