

Title (en)
DOUBLE-PIPE HEAT EXCHANGER AND AIR CONDITIONER USING SAME

Title (de)
DOPPELROHRWÄRMETAUSCHER UND KLIMAANLAGE DAMIT

Title (fr)
ÉCHANGEUR DE CHALEUR À TUYAU DOUBLE ET CLIMATISEUR L'UTILISANT

Publication
EP 2787314 B1 20180613 (EN)

Application
EP 12852894 A 20121106

Priority
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• JP 2012078678 W 20121106

Abstract (en)
[origin: EP2787314A1] A double-pipe heat exchanger capable of achieving a compact configuration and suppressing a liquid refrigerant contained in a gas-liquid two-phase refrigerant from flowing out from an inner pipe so as to prevent generation of a liquid-back phenomenon is provided. A double-pipe heat exchanger (31) includes an outer pipe (32) through which a high pressure liquid refrigerant flows, and an inner pipe (33) having an inlet side end (33A) into which a low pressure gas-liquid two-phase refrigerant obtained by reducing pressure of the high pressure liquid refrigerant flows, and an outlet side end (33B) connected to a suction side part of a compressor. The double-pipe heat exchanger (31) includes a plurality of vertical pipes (34A, 34B) arranged in the up and down direction, and a curve pipe (35) connecting ends of the plurality of vertical pipes (34A, 34B), the outlet side end (33B) of the inner pipe (33) is provided in an upper end of one vertical pipe (34B), and the inlet side end (33A) of the inner pipe (33) is provided in an upper end of the other vertical pipe (34A).

IPC 8 full level
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