

Title (en)
HEAT EXCHANGER WITH THE RECEIVER TANK

Title (de)
WÄRMETAUSCHER MIT AUFNAHMEBEHÄLTER

Title (fr)
ECHANGEUR DE CHALEUR DOTE DUDIT BAC RECEPTEUR

Publication
EP 1586834 B1 20120328 (EN)

Application
EP 03814545 A 20031217

Priority
• JP 0316219 W 20031217
• JP 2002378979 A 20021227

Abstract (en)
[origin: EP1586834A1] A receiver tank according to the present invention has a tubular tank body 30 with a refrigerant inlet hole 3a and a refrigerant outlet hole 3b that are formed in its lower wall 321. The upper end position of the opening of the refrigerant inlet hole 3a is set to be lower than the upper end position of the opening of the refrigerant hole 3b. Provided at the upper end of the opening of the refrigerant inlet hole 3a is a resistance layer 335 at which the speed of flow of a refrigerant is reduced by permeation of the refrigerant. The refrigerant flowing in from the refrigerant inlet hole 3a penetrates upward the resistance layer 335 to form a collection R of liquid in a space of the tank. A liquid refrigerant in the collection R is discharged through the refrigerant outlet hole 3b. Because of the structure above, reduction in refrigerant amount, simplification in structure, and reduction in cost can be attained. <IMAGE>

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