

Title (en)

Stacked type multi-flow heat exchanger

Title (de)

Mehrstromwärmetauscher in Stapelbauweise

Title (fr)

Echangeur de chaleur du type empilé à passage multiple

Publication

EP 0995961 A2 20000426 (EN)

Application

EP 99308314 A 19991021

Priority

- JP 30282598 A 19981023
- JP 2603099 A 19990203

Abstract (en)

A stacked type multi-flow heat exchanger (1) includes a plurality of heat transfer tubes (2) and fins (3) stacked alternately, and upper front (31a) and an upper rear tank (31b), a lower front (32a) and a lower rear tank (32b). The heat exchanger (1) includes partitions (33,34) provided at the lower front and rear tanks (32a,b), respectively, and a communication path (36) communicating between the same side ends of the lower front and rear tanks (32a,b). A communication header (38) forming the communication path (36) is formed integrally with the outermost heat transfer tube (2b). Liquid refrigerant flows at a greater amount through the central portion of the heat exchanger core (1a), whereas high temperature refrigerant flows through the edge portions of the heat exchanger core (1a). A uniform temperature distribution of air having passed through the heat exchanger (1) may be achieved.

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