

Title (en)
An integrated heat exchanger and a method of assembling thereof

Title (de)
Wärmetauscher und Herstellungsverfahren

Title (fr)
Echangeur de chaleur combiné et procédé de fabrication

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Application
EP 04460028 A 20040628

Priority
GB 0321092 A 20030910

Abstract (en)
The invention relates to an integrated heat exchanger (1), in particular a vehicle radiator-condenser integrated module, comprising two heat exchangers (2, 3), each having a cooling core comprised of fins (23, 33) and tubes (22, 32), two header tanks (21, 31) fluidly connected with reciprocal ends of cooling core tubes, where said heat exchangers (2, 3) are coupled and parallel to each other. To enable detaching of heat exchangers forming the integrated module, top ends of the header tanks (21) of the radiator (2) are provided with top end caps (4) having projections (41) with openings (43) adapted to receive the top ends of the header tanks (31) of the condenser (3); bottom ends of the header tanks (21) of the radiator (2) are provided with bottom end caps (5) having projections (51) with sockets (53) adapted to receive the bottom ends of the header tanks (31) of the condenser (3); where the bottom ends of the header tanks (31) of the condenser (3) are supported on retaining rings (52) resting in sockets (53) of the projections (51) of the bottom end caps (5); and the top ends of the header tanks (31) of the condenser (3), are locked with retaining plugs (42) pushed upwardly into the openings (43) of the projections (41) of the top end caps (4). The invention relates also to a method of assembling such integrated heat exchanger.

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